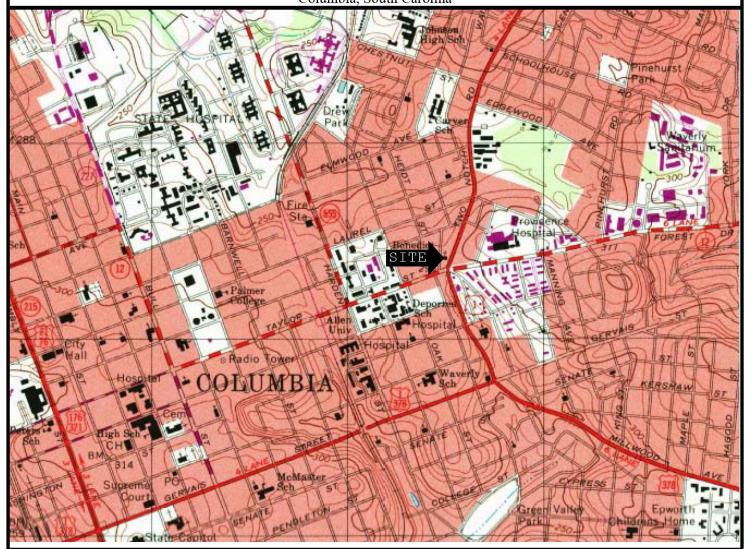
FIGURE 1

Site Location Map
Handy Pantry #65 / University Mart / Clouds Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina



CRAWFORD ENVIRONMENTAL SERVICES

15 Church Avenue, SW Roanoke Virginia, 24011

540-343-6256 (office) 540-343-6259 (fax)

NORTH COLUMBIA, SOUTH CAROLINA

Source: U.S.G.S. Topographic Map of the

Columbia North Quadrangle, Virginia, 7.5 Minute Series (1977, revised 1988)

Scale: 1:24,000 Contour Interval: 20 Feet Vertical Datum: National Geodetic Vertical

Datum 1929

Horizontal Datum: North American Datum1927

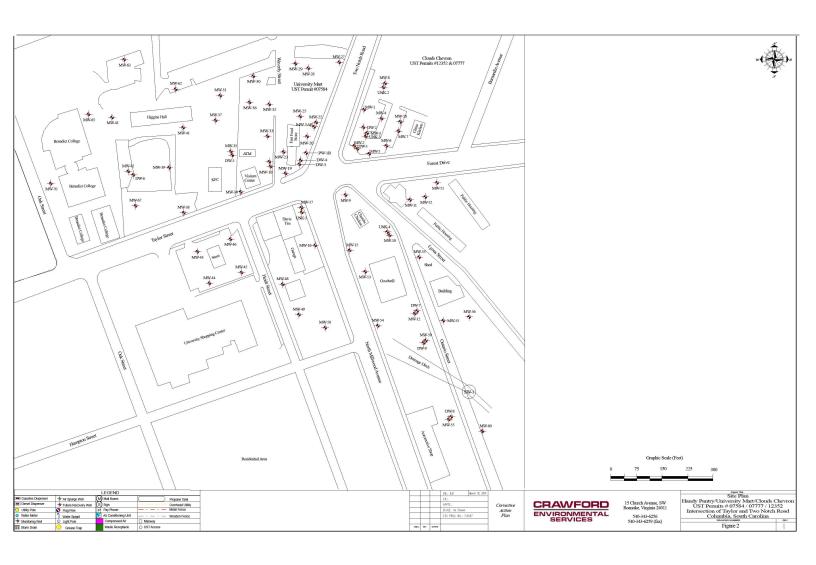
Project: Corrective Action Plan

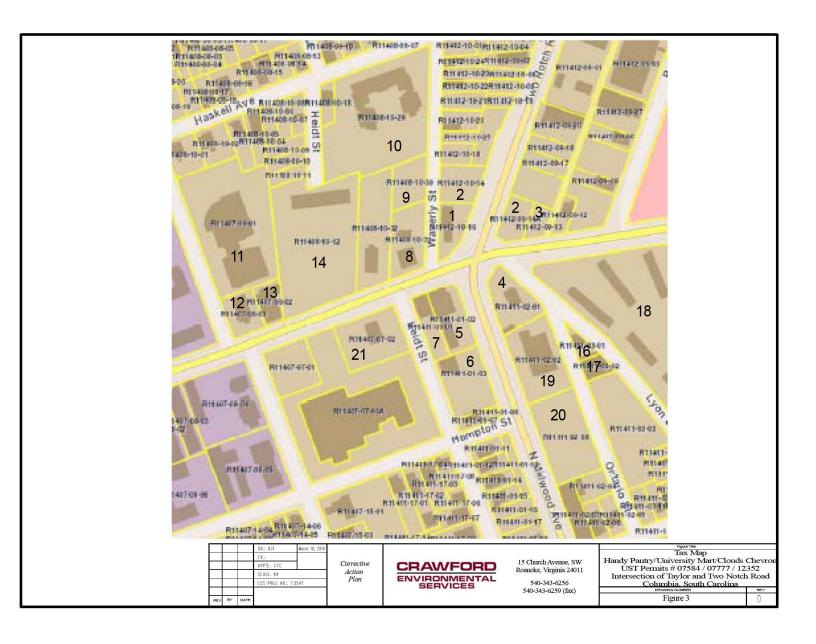
Client: SCDHEC

CES Job #: 7.0547



Latitude: 034"00'42.72"N Longitude: 081"01'00.13"W





2.0

EXISTING REMEDIAL SYSTEM

Based on a review of historical documents associated with the referenced UST permits as well as the initial site check performed by CES on March 10, 2014, the former remedial system components remain on-site from the previous contract with Palmetto Environmental Group (PEG). CES identified approximately 58 air-sparge points and four recovery wells. The air-sparge wells were constructed of four-inch schedule 40 polyvinyl chloride (PVC) piping to an approximate depth of 45.0 feet below ground surface (bgs) with screened intervals ranging between 25.0 feet and 45.0 feet bgs. The recovery wells were constructed of two-inch schedule 40 PVC piping to approximate depths of 35.0 feet bgs with screened intervals ranging between 25.0 feet and 35.0 feet bgs. Based on the Corrective Action Plan Implementation Report (CAP-IMP) dated December 27, 2006 completed by PEG, each air sparge well is connected via dedicated 0.5-inch PVC conduits to three independent remedial compounds located at 2367 Taylor Street, 2435 Forest Drive and 2436 Forest Drive. Each remedial system maintains an Atlas Cooper (or equivalent) 10.0-horsepower rotary screw air compressor, a five-horsepower Rotron Regenerative Blower and the ancillary electrical controls. CES performed a cursory visual inspection of the equipment and is assuming that the former remedial systems will resume full operation following minor maintenance and troubleshooting activities. CES has previously submitted applications to South Carolina Electric and Natural Gas (SCENG) to transfer the necessary electric accounts to CES. The existing remedial layout is provided as Figure 4.

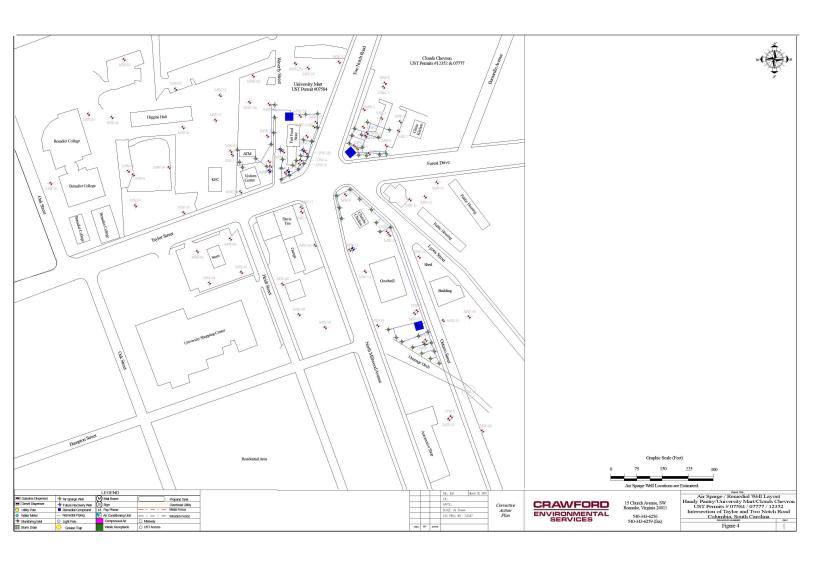
3.0 REMEDIATION SYSTEM DESIGN

CES evaluated various corrective action techniques for application at the subject site. In accordance with observed site conditions, CES proposes to remediate the subject properties utilizing a "multi-step" process that will effectively address the free-, dissolved-, and adsorbed-phase petroleum compounds identified at the subject facilities. This tiered-approach will consist of re-activating the air sparge/SVE components, surfactant enhanced free-product recovery efforts, aggressive in-situ chemical-oxidation (ChemOx) and supplemental biological amendment injections. A summary of the remedial program to be implemented at the site is presented below.

3.1 Re-Activation of Existing Remedial Components

Initially, CES proposes to mobilize to the subject site to re-activate the three existing remedial systems. Re-activation will include the following activities: (1) securing the compounds by repairing fencing enclosures and repairing access doors; (2) clearing overgrown foliage and debris surrounding the remedial compounds; (3) performing routine maintenance on the compressors and blowers to include removal and replacement of lubricants, filters, belts, etc.; and (4) modification of the existing remedial manifold to facilitate use during future remedial injections. Following completion of the above referenced activities, the air sparge/SVE systems will be activated and monitored for approximately one quarter.





3.2 Surfactant Enhanced Recovery Events

Subsequent to completing approximately one quarter of sparging and vapor extraction, CES will inspect the monitoring points to confirm the presence or absence of free-product. Should site conditions indicate the presence of free-phase petroleum, CES will mobilize to the subject site and install a maximum of six free-product recovery wells. Eight-inch diameter soil borings will be installed utilizing hollow-stem auger techniques to facilitate the construction of six, four-inch recovery / injection wells. Each recovery / injection point will be installed to approximately 35.0 feet below ground surface (bgs). Recovery / injection wells will be equipped with screened intervals from approximately two feet above source area contaminants to the terminal depth of the boring. Each recovery / injection point will maintain an estimated eight-inch diameter waterproof manway installed within an estimated two foot by two foot concrete pad. Proposed recovery / injection point locations are presented on Figure 4.

Following installation of the injections wells, CES will mobilize to the site with remedial injection equipment and approximately 60-gallons of PetroSolv Surfactant (PetroSolv). CES will mix a 3.0% surfactant solution utilizing approximately 50-gallons of PetroSolv and approximately 600-gallons of potable water (acquired on-site). Over an estimated period of one to three days, CES will inject approximately 660-gallons of surfactant solution to injection points IW-1, IW-2, IW-3, IW-4, IW-5, and IW-6. During these injection events, CES will utilize a surge block to actively pressurize the surfactant solution into the formation creating direct contact with the free- and adsorbed-phase compounds. Following completion of the injection activities, CES will utilize a vacuum truck to extract approximately 150-gallons of petroleum impacted groundwater from each of the referenced injection wells.

3.3 Chemical Oxidation

Following achievement of the 60% concentrations of concern (COC) milestone, CES proposes to use a dilute Fenton's reagent process at the subject site to oxidize adsorbed- and dissolved-phase petroleum constituents in the subsurface The Fenton's reagent process utilizes a metal catalyst (ferrous sulfate) and hydrogen peroxide to produce hydroxyl radicals. These hydroxyl radicals rapidly oxidize petroleum hydrocarbons upon contact, ultimately producing byproducts of carbon dioxide, water, and dissolved oxygen. Residual petroleum hydrocarbon mass and simple organic acids usually remain after the chemical oxidation process but can be treated with biological amendments. Fenton's reagent process is shown in the following steps:

(1)
$$Fe^{2+} + H_2O_2 \rightarrow Fe^{3+} + OH \cdot + OH^-$$

(2) $Fe^{3+} + H_2O_2 \rightarrow Fe^{2+} + OOH \cdot + H^+$

The hydrogen peroxide will be injected into the estimated 58 existing air-sparge wells utilizing the existing piping as subsurface conveyance conduits. The six recovery / injection wells referenced in Section 3.2 also will be utilized for the injection of hydrogen peroxide on an as needed basis. The injection events will be performed episodically until an approximate COC reduction of 75-80% is achieved. CES estimates that each ChemOx injection event can be completed in approximately one to two weeks, however, the duration of these events will be controlled by the site's ability to sustain the desired rates of injection. CES estimates that



Site ID: 07584/07777/12352

approximately 3,000-gallons of 5.0% hydrogen peroxide solution will be utilized at the subject site.

3.4 Biological Injections

Directly following the final ChemOx injection, the holding tank will be cleansed prior to the introduction of bacteria and nutrient-amended water. CES will utilize the PetroBacTM product bundle which contains a TPH Bacterial Consortium and Enzyme Accelerator. The NutriMaxTM nutrient mix also will be utilized to increase biological degradation of the hydrocarbon mass at the site. Over the course of an estimated three to five days, CES will inject approximately 1,000 lbs. of CBN nutrients and approximately 20 gallons of A2 bacteria mixed with an estimated 3,500-gallons of potable water. The biological amendments will be gravity fed to the injection points in order to facilitate physical contact with the adsorbed-phase compounds. The amendments will react with the residual TPH mass to produce carbon dioxide and water as byproducts.

3.5 Injection Schedule

CES will re-activate the existing remedial compounds immediately upon CAP approval from SCDHEC. Approximately three months following activation of the remedial system, CES will collect groundwater samples from the SSTL wells to evaluate the effectiveness of the existing remedial system. Based on the qualitative and quantitative data collected, CES will evaluate installation of the free-product recovery wells and perform additional injections either on a quarterly or semi-annual basis.

4.0 REMEDIAL SUMMARY

Based on observed site conditions, attainment of cleanup endpoints will be achieved only through remediation of source area or adsorbed-phase contaminants. As described in Section 3.0 of this CAP, surfactant enhanced free-product recovery, in-situ chemical oxidation and supplemental biological degradation will be an aggressive remedial approach to address the multiple-phase contaminants identified at the subject properties. The referenced remedial techniques have been demonstrated by industry as efficient remedial technologies that reduce adsorbed- and dissolved-phase contaminant plumes concurrently, at effective costs and within reasonable time frames. Although preliminary, CES estimates that remedial endpoints can be achieved within approximately 60 months. Contaminant mass removal estimates will be calculated and timelines for the attainment of cleanup endpoints will be modified accordingly after empirical data is collected and evaluated over time.

5.0 MONITORING SCHEDULES

5.1 Remedial Monitoring Schedule

The remedial operation and monitoring (O & M) schedule presented below has been developed to assess the overall effectiveness and operating efficiency of the implemented remedial techniques. Table 2 is a summary of the O & M schedule for the corrective action efforts to be implemented at the subject sites in Columbia, South Carolina.



Site ID: 07584/07777/12352

Table 2.

Summary of Remedial Operation & Monitoring Schedule

Location	Frequency	Parameters	Methods	Media
SVE and system components	Weekly inspections for first month; bi- monthly thereafter	N/A	Routine system O&M	N/A
SVE vapor effluents	Weekly inspections for first month; bi- monthly thereafter	ТРН	PID	Vapor
On- and Off-site Monitoring Wells	Semi-Annually from the Date of the CAP-IMP Report	BTEX, Naphthalene, MTBE, TAA, TAME, TBA.	8260B, 8260-OXY	Groundwater

5.2 Post-Operational Schedule

Following achievement of the third interim Chemical of Concern (CoC) concentration goal for 30 consecutive days, CES will complete two quarters of post corrective action monitoring to ensure that dissolved-phase endpoints have been maintained. Upon verification of endpoint maintenance for two consecutive quarters, CES will mobilize to the subject site to remove/abandon all assessment and corrective action equipment. This process will include removal of the injection equipment and abandonment of all on- and off-site monitoring/injection wells.

5.3 Implementation Schedule

Upon receiving the Notice to Proceed from DHEC personnel, CES will mobilize to the subject properties to initiate construction activities. The remedial equipment to be utilized at the subject property is owned by CES which will facilitate the expeditious commencement of the corrective action implementation phase. CES estimates that the existing remedial systems can be operational within one week of receiving the Notice to Proceed.

5.4 Reporting Schedule

The Initial CAP Implementation Report will be submitted to DHEC within 60 days of receipt of the Notice to Proceed. This initial report will comprise details pertaining to overall system design, well installations and as-built drawings for the remedial system utilized. Corrective Action System Evaluation Reports (CASE) will be submitted to DHEC semi-annually from the date of initial "system" startup. The CASE reports will include groundwater analytical results, contaminant mass removal estimates, and an evaluation of the effectiveness of corrective action efforts performed to date.



6.0 DISPOSAL/TREATMENT

The following sections address disposal/treatment options for petroleum-impacted material generated by the proposed corrective action.

6.1 Petroleum-Impacted Soil

CES anticipates that minor amounts of soil will be generated during soil boring installation. Should visual, olfactory and/or headspace evidence indicate that the generated material is petroleum-impacted, CES will collect soil samples for waste characterization analyses. The excavated material will be temporarily stockpiled on-site on six-millimeter polyethylene sheeting pending off-site disposal. Non-hazardous waste manifests for the transport and disposal of any petroleum-impacted soil generated during system installation will be submitted to DHEC under separate cover upon receipt.

6.2 Non-Impacted Soils

Excess non-impacted soils generated during the soil boring process will be stockpiled prior to disposal at a construction debris landfill.

7.0 PERMITTING REQUIREMENTS

7.1 Construction Permit

Local construction standards do not require a construction permit for the required remedial activities.

7.2 Injection Permit

CES has prepared the underground injection permit application and has submitted this document to the SCDHEC Bureau of Water for approval. A copy of the submitted application is included as Appendix A.

8.0 COST EFFECTIVENESS OF PROPOSED SYSTEM

Based on observed site conditions, attainment of cleanup endpoints will be achieved only through remediation of adsorbed- and dissolved-phase contaminant plumes. As described in Section 3.0 of this CAP, in-situ remedial techniques will serve as an aggressive cleanup approach to address the multiple contaminant phases identified at the subject properties.

9.0 ESTIMATED TIME FRAME TO ACHIEVE ENDPOINTS

Accurate estimation of cleanup time is based on sufficient monitoring of corrective action performance during early stages of implementation, quality of effluent data, and appropriate data interpretation (Buscheck and Peargin, 1991). CES has designed the CAP performance monitoring schedule to allow for adequate data collection, particularly as it relates to removal of contaminant mass, during the initial 12 months of corrective action. The absence of quantitative pilot test data is not



conducive to estimating, with any degree of certainty, the contaminant mass remaining in the subsurface. As such, cleanup time and endpoint attainment will be continually evaluated and confirmed throughout the remedial process. Data collection and interpretation in the early stages of corrective action will serve as the baseline for quantifying the remaining contaminant mass. Post-operational monitoring will verify that cleanup endpoints have been achieved.

10.0 SUMMARY AND RECOMMENDATIONS

In accordance with measured site conditions and data reviewed to date, CES recommends a "tiered" remedial approach as follows: (1) reactivation of the existing air sparge and vapor extraction remedial components. (2) Subsequent to the completion of approximately one quarter of AS/SVE operation, supplemental vacuum-enhanced free-product recovery events will be performed, as needed. The final remedial "tiers" will comprise in-situ technologies including chemical oxidation injections and supplemental biological amendments. Following the initial 12 months of active remediation at the subject site, CES will evaluate the effectiveness of the proposed remedial efforts to determine if additional corrective action measures are warranted. CES is prepared to begin implementation of the CAP immediately upon receipt of the Notice to Proceed from SCDHEC. This CAP is being submitted to Ms. Susan Fulmer of the South Carolina Department of Health and Environmental Control UST Management Division.



REFERENCES

- Brassington, Rick. Field Hydrogeology. Open University Press, Milton Keynes, and Halsted Press: New York, New York, 1988.
- Bryson, P. D. *Hydrocarbons. In Comprehensive Review In Toxicology.* 2nd ed., Chapter 47, Aspen Publications: Rockville, Maryland, 1989.
- Casana, J.G., et al. An Underground Storage Tank Guidebook. Cahners Publishing Company, 1987.
- CH2M Hill. Soil Contamination Evaluation Methodology. CH2M Hill, Southeast, Inc.: Reston, Virginia, 1985.
- Cooke, R.U. and Doornkamp J.C. Geomorphology in Environmental Management. Clarendon Press: Oxford, 1974.
- Freeze, R. A., and Cherry, J. A. *Groundwater*. Prentice-Hall, Inc.: Englewood Cliffs, New Jersey, 1979.
- Keller, Edward A. *Environmental Geology*. Macmillan Publishing Company: New York, New York, 1992. Sixth edition.
- Lohman, S.W. Ground-water hydraulics: U.S. Geological Professional Paper. 1979
- Lutgens, Frederick K., and Tarbuck, Edward J. *Essentials of Geology*, (Fifth Edition). Prentice-Hall, Inc.: Englewood Cliffs, New Jersey, 1985.
- Sax, N. I., and Lewis, R. J. *Hazardous Chemicals Desk Reference*. Van Norstrand Reinhold: New York, New York, 1987.
- Siting, M. Handbook of Toxic and Hazardous Chemicals and Carcinogens. Noves Publications: New Jersey, 1985.
- Suthersan, Suthan S. Remediation Engineering Design Concepts. CRC Press, Inc.: Boca Raton, Florida, 1997.
- U.S. Environmental Protection Agency. Cleanup of Releases from Petroleum USTs: Selected Technologies. Office of Underground Storage Tanks, April 1988
- U.S. Environmental Protection Agency. Assessing UST Corrective Action Technologies: Site Assessment and Selection of Unsaturated Zone Treatment Technologies. Risk Reduction Engineering Laboratory, March 1990.
- U.S. Geological Survey, 7.5 Minute Series Topographic Map of the North Columbia Quadrangle, South Carolina, 1979



APPENDIX A

Injection Permit





March 20, 2014

Mr. Christopher A. Wargo State of South Carolina Department of Health and Environmental Control 2600 Bull Street Columbia, South Carolina 29201

RE: Underground Injection Control Permit Application

Handy Pantry #65/University Mart & Cloud's Chevron Intersection of Taylor Street and Two Notch Road

Columbia, South Carolina

UST Permit # 07584 / 07777 / 12352

Dear Mr. Wargo:

Enclosed please find one copy of the Underground Injection Control Permit Application. A copy of the application also was included with the Corrective Action Plan submitted to Ms. Susan Fulmer on March 21, 2014. If you have any comments or questions, or if additional information is required, please feel free to contact me at 540.798.5068.

Best Regards,

Daniel J. Fisher Division Manager

Form I. EPA ID NUMBER T/A C I Underground Injection Control IJ Permit Application Ground-Water Protection Division UIC (Collected under the Authority of Title 48 Chapter I of the 1976 South Carolina Code of Laws) Read attached instructions before starting. For OfficialUse Only Application Approved Date Received month day year Permit Well Number month day year Comments II. Facility Name and Address III. Owner/Operator and Address Facility Name Owner/OperatorName Crawford Environmental Services, Inc. Handy Pantry #65 / University Mart /Clouds Chevron Street Address Street Address Intersection of Taylor Street and Two Notch Road 15 Church Avenue, SW Zip Code City State City State Zip Code Columbia South Carolina 29204 Roanoke Virginia 24011 IV. Ownership Status (Select One) V. SIC Codes A. Federal C. Private B. State D. Public E. Other (Explain) VI. Well Status (Select A, B or C) Date Started (MM/DD/YYYY) A. Operating B. Modification/Conversion C. Proposed VII. Type of Permit Requested - Class and Type of Well (see reverse) C. If class is "other" or type is code 'Y', explain A. Class(es) enter code(s) B. Type(s) enter code(s) D. Number of Wells per type V.A VIII. Location of Wells or Approximate Center of field or Project A. Latitude B. Longitude Deg Deg Min Min Sec Ī 34 57.53 00 76.29 00 IX. Attachments Complete the following questions on a separate sheet(s) and number accordingly; see instructions for Classes 11, 111, and V, complete and submit on a separate sheet(s) attachments A-U as appropriate. Attach maps where required. List attachments by letter which are applicable and include with your application.

X. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment.

A. Name (Type or Print)	Title	B. Phone No.
Charles F. Crawford	President	540-343-6256
C. Signature		D. Date Signed (MM/DD/YYYY) 03/20/2014

Well Class and Type Codes

Class I Industrial, municipal, and other injection wells for the subsurface disposal of fluids. (Prohibited)

Class II Oil and gas production and storage related injection wells.

Type "D" Produced fluid disposal well

"R" Enhanced recovery well

"R" Hydrocarbon storage well (excluding natural gas)

"X" Other Class II wells

Class III Special process injection wells.

Type "G" Solution mining well

"S" Sulfur mining well by frasch process

"U" Uranium mining well (excluding solution mining of conventional mines)

"X" Other Class III wells

Class IV Hazardous or radioactive waste disposal injection wells. (Prohibited)

Class V.A Injection wells not included in Class I, II, III, IV or V.B

Type "A" Storm runoff drainage wells

"B" Aquifer recharge wells

"C" Salt-water intrusion barrier wells

"D" Subsidence control wells

"E" Backfill wells associated with subsurface mining

"F" Geothermal energy recovery wells
"G" Experimental technology well

"H" Natural gas storage wells
"T" Corrective action wells

Class V.B Non-contact return flow system wells

Type "A" Heat pump return flow wells
Type "B" Cooling water return flow wells

ns llons o la llons o lo l
nde ond ne on Con ol
o Co e le con Wells
(effective □□□□)

The following ATTACH \square ENTS should be submitted with an underground injection control (UIC) permit application for Class V.A. corrective action wells associated with aquifer remediation that are to be used to inject fluid whose chemical constituents are below all drinking water standards, as established under R. \square \square \square

Attachment A Activity for Review

Submit a brief description of the activities to be conducted that require a UIC permit.

Attachment B ell Construction Details

Submit schematic or other appropriate drawings of the surface and subsurface construction details of the recovery and injection wells.

Attachment C Operating Data

Submit the following proposed operating data for each injection well □

- Average and maximum daily rate and volume of fluid to be injected. In addition, indicate the average and maximum daily rate and volume of fluid to be withdrawn from <u>each</u> recovery well. Verification of the aquifer shydraulic ability to produce and accept the quantities proposed should be presented.
- Average and maximum injection pressure.
- D Pumping schedule (i.e. continuous, alternating cycles, etc.).
- Proposed ranges in the concentration of all contaminant constituents within the injection fluid. Include comprehensive ground-water quality data from a "worst case" well sample.
- Dength of time the project is expected to require injection to complete remediation (to ensure the effective dates of the permit will allow sufficient time to complete the project).

Attachment D onitoring Program

Discuss the planned monitoring program in detail

- Include a discussion of monitoring devices, sampling frequency (sufficient to verify treatment system efficiency), sampling protocol, sampling location, parameters to be analyzed, and proposed method(s) of analysis.
- This plan should indicate how, through monitoring, the proposed contaminant levels in the injectate will be verified.
- This plan should also clearly illustrate exactly how hydraulic control of the contaminant plume (and injectate, where relevant) will be verified through monitoring (i.e., piezometers, quality analyses, etc.).

Attachment E Existing or Pending State Federal Permits

List the program and permit number of any existing State or Federal permits for the facility (i.e., NPDES, RCRA, UST, etc.).

Attachment F Description of Business

Give a brief description of the nature of the business of the facility and any immediately adjacent facilities.

Attachment G Area of Review

The area of review should be a fixed radius of \(\pi\)mile from the injection well, the outermost injection wells (if a wellfield).

If a fixed radius is not selected, the methods and the calculations used to determine the size of the area of review should be submitted.

Attachment H □ aps of □ ells and Area of Review

- Submit a topographic map of the area, extending one mile beyond the project property boundaries. This map should show all hazardous waste treatment, storage, or disposal facilities, and all intake and discharge structures associated with the project facility. Any known areas of soil and or ground-water contamination within a one mile radius should be indicated. Also indicate all surface bodies of water, springs, mines (surface and subsurface), quarries, and other pertinent surface features such as residences, roads, and geologic faults (known or suspected).
- A scaled map(s) should be included which shows the name and or number and the location of A production, injection, monitoring, abandoned and dry wells within the area of review. This should be accomplished by file and field surveys. Information regarding the construction (i.e., total depth, diameter, casing screened intervals, grouting, etc.) and the current status (i.e., actively used, temporarily abandoned, permanently abandoned) of A wells within the area of review should be submitted. If any wells have been abandoned, details on the method the wells were abandoned (i.e., cemented grouted, filled with sand, etc.) should be included.
- A potentiometric map of the project site should be submitted which accurately locates all monitoring wells and proposed recovery and injection wells and outlines the horizontal extent of both the free-phase contaminant (where applicable) and dissolved contaminant plumes. Include all water level and product thickness data. The date and time that water levels and product thicknesses were measured should be indicated.

Attachment I Cross Sections Diagrams

- Geologic cross sections indicating the lithology and stratigraphy of the site and the horizontal and vertical extent of the contaminant plume, should be submitted. At least two stratigraphic cross sections, one parallel and one perpendicular to the horizontal ground-water flow direction, should be submitted. In areas where the site stratigraphy is complex, additional cross sections should be submitted to clearly illustrate the local conditions.
- A schematic diagram, in the form of a cross section, showing the proposed remediation system with the components of flow (above and below ground) and all associated appurtenances (i.e., stripping tower, piping, wells, etc.).

Attachment ■Name and Depth of Underground Sources of Drinking □ ater (USD□ ⑤)

Identify and describe all aquifers which may be affected by the injection.

Attachment Hydraulic Control

- Sufficient supporting data (i.e. time drawdown data, Theis curves and methods, calculations, etc.), used to determine aquifer characteristics to verify <u>complete</u> hydraulic control over the contaminant plume (and injectate, if proposed injectate quality does not conform to classified ground-water standards) during injection should be submitted. At a minimum, values should be given for transmissivity, hydraulic conductivity, effective porosity and specific yield.
- Demonstrate the presence and magnitude of, or the absence of, any vertical hydraulic gradient at the site. If a vertical hydraulic gradient exists, show how its direction and magnitude are incorporated in the calculations demonstrating hydraulic control.
- Ground-water flow computer models (especially \Box -D map view with potentiometric and flow lines) may be utilized and submitted. All calculations should be in English units. All model-derived data and maps should be properly labeled and keyed so as to be clearly understood.

Subsequent Action

After receipt of a complete Underground Injection Control Permit Application, the Department will make a determination to deny or issue a Permit to Construct the injection well(s). After the well(s) is are constructed, the Department should be notified in writing of the well(s) completion and sent a copy of the completed well record form(s) signed by a South Carolina certified well driller which illustrates the "as built" well construction. If the system is in compliance with the approved application, the Department may then issue an Approval to Operate. This Approval to Operate is the final permission necessary prior to injection.

Attachment A: Activity for Review

On behalf of the South Carolina Department of Health and Environmental Control (SCDHEC), Crawford Environmental Services, Inc. (CES) has prepared a Corrective Action Plan (CAP) for the Handy Pantry # 65 / University Mart / Clouds Chevron (Subject Site) located at the intersection of Taylor Street and Two Notch Road in Columbia, South Carolina. Subsurface soils and groundwater quality have been impacted by a release of petroleum products at the site. In accordance with observed site conditions, CES proposes to remediate the subject properties utilizing a "multi-step" process that will effectively address the free-, dissolved-, and adsorbed-phase petroleum compounds identified at the subject facilities. This tiered-approach will consist of re-activating the air sparge/SVE components, surfactant enhanced free-product recovery efforts, aggressive in-situ chemical-oxidation (ChemOx) and supplemental biological amendment injections. A summary of the remedial program to be implemented at the site is presented below.

Attachment B: Well Construction Details

CES has identified approximately 58 air-sparge points and four recovery wells on-site from a previous remedial contract. The air-sparge wells were constructed of four-inch schedule 40 polyvinyl chloride (PVC) piping to an approximate depth of 45.0 feet below ground surface (bgs) with screened intervals ranging between 25.0 feet and 45.0 feet bgs. The recovery wells were constructed of two-inch schedule 40 PVC piping to approximate depths of 35.0 feet bgs with screened intervals ranging between 25.0 feet and 35.0 feet bgs. Based on the Corrective Action Plan Implementation Report (CAP-IMP) dated December 27, 2006 completed by PEG, each air sparge well is connected via dedicated 0.5-inch PVC conduits to three independent remedial compounds located at 2367 Taylor Street, 2435 Forest Drive and 2436 Forest Drive. CES proposes to utilize these wells for air sparging and supplemental injections (Chem-Ox, Surfactant, and Biological Amendments). Copies of the existing well completion records are include as Appendix A.

Subsequent to completing approximately one quarter of sparging and vapor extraction, CES will inspect the monitoring points to confirm the presence or absence of free-product. Should site conditions indicate the presence of free-phase petroleum, CES will mobilize to the subject site and install a maximum of six free-product recover wells. Eight-inch diameter soil borings will be installed utilizing hollow-stem auger techniques to facilitate the construction of six, four-inch recovery wells. Each recovery point will be installed to approximately 35.0 feet below ground surface (bgs). Injection points will be equipped with screened intervals from approximately two feet above source area contaminants to the terminal depth of the boring. Each injection point will maintain an estimated eight-inch diameter waterproof manway installed within an estimated two foot by two foot concrete pad. A diagram of proposed injection well construction is included as Appendix A.

Proposed and existing injection point locations are presented on Figure 1.

Attachment C: Operating Data

- 1. Average daily rate of fluid to be injected per well is 166 gallons per day (gpd) with a maximum of 210 gpd. Maximum flow rate for air sparging will be four cubic feet per minute (CFM) per injection point.
- 2. Average fluid injection pressure is planned to be 7-psi with a maximum of 15-psi. Maximum air sparge pressure will be 15-psi.
- 3. Should free-phase petroleum be identified following the first three months of air sparging, six additional injection wells will be installed for surfactant enhanced recovery points. Following installation of the injections wells, CES will mobilize to the site with remedial injection equipment and approximately 60-gallons of PetroSolv Surfactant (PetroSolv). CES will mix a 3.0% surfactant solution utilizing approximately 50-gallons of PetroSolv and approximately 600-gallons of potable water (acquired on-site). Over an estimated period of one to three days, CES will inject approximately 660-gallons of surfactant solution to injection points IW-1, IW-2, IW-3, IW-4, IW-5, and IW-6. During these injection events, CES will utilize a surge block to actively pressurize the surfactant solution into the formation creating direct contact with the free-and adsorbed-phase compounds. Following completion of the injection activities, CES will utilize a vacuum truck to extract approximately 150-gallons of petroleum impacted groundwater from each of the referenced injection wells.
- 4. Following achievement of the 60% concentrations of concern (COC) milestone, CES proposes to use a dilute Fenton's reagent process at the subject site to oxidize adsorbed- and dissolved-phase petroleum constituents in the subsurface The Fenton's reagent process utilizes a metal catalyst (ferrous sulfate) and hydrogen peroxide to produce hydroxyl radicals. These hydroxyl radicals rapidly oxidize petroleum hydrocarbons upon contact, ultimately producing by-products of carbon dioxide, water, and dissolved oxygen. Residual petroleum hydrocarbon mass and simple organic acids usually remain after the chemical oxidation process but can be treated with biological amendments. Fenton's reagent process is shown in the following steps:

(1)
$$Fe^{2+} + H_2O_2 \rightarrow Fe^{3+} + OH \cdot + OH^-$$

(2) $Fe^{3+} + H_2O_2 \rightarrow Fe^{2+} + OOH \cdot + H^+$

The hydrogen peroxide will be injected into the estimated 58 existing air-sparge wells utilizing the existing piping as subsurface conveyance conduits. The six free-product recovery wells referenced in Section 3.2 also will be utilized for the injection of hydrogen peroxide on an as needed basis. The injection events will be performed episodically until an approximate COC reduction of 75-80% is achieved. CES estimates that each ChemOx injection event can be completed in approximately one to two weeks, however, the duration of these events will be controlled by the site's ability to sustain the desired rates of injection. CES estimates that approximately 3,000-gallons of 5.0% hydrogen peroxide solution will be utilized at the subject site.

5. Directly following the final ChemOx injection, the holding tank will be cleansed prior to the introduction of bacteria and nutrient-amended water. CES will utilize the PetroBacTM product

bundle which contains a TPH Bacterial Consortium and Enzyme Accelerator. The NutriMaxTM nutrient mix also will be utilized to increase biological degradation of the hydrocarbon mass at the site. Over the course of an estimated three to five days, CES will inject approximately 1,000 lbs. of CBN nutrients and approximately 20 gallons of A2 bacteria mixed with an estimated 3,500-gallons of potable water. The biological amendments will be gravity fed to the injection points in order to facilitate physical contact with the adsorbed-phase compounds. The amendments will react with the residual TPH mass to produce carbon dioxide and water as byproducts. Material Data Safety Sheets (MSDS) for the referenced amendments are included as Appendix C.

6. CES will conduct air sparging / SVE activities continuously until the 60% concentrations of concern (COC) milestone is achieved. Following conclusion of air sparging activities, CES will conduct injections on a quarterly basis. The estimated length of time to complete remediation is 48 months to 60 months.

Attachment D: Monitoring Program

Corrective Action System Evaluation Reports (CASE) will be submitted to DHEC semi-annually from the date of system startup (re-activation). The CASE reports will include groundwater analytical results, system flow rates and efficiency calculations, and contaminant mass removal rate estimates, and an evaluation of the systems effectiveness during the referenced period. Groundwater samples collected quarterly from site monitoring wells will be analyzed for benzene, toluene, ethylbenzene, xylenes, MTBE, naphthalene, by EPA Method 8260 and tertamyl alcohol (TAA), tert-amyl methyl ether, TAME, and tert-butanol (TBA) via 8260-OXY. Laboratory analyses will be conducted by a third-party S.C. certified laboratory. Site monitoring well locations are depicted on Figure 2.

Attachment E: Existing Federal and State Permits

The sites currently maintain the following SCDHEC UST permits; 07584 (Handy Pantry #65/University Mart) and 07777 / 12352 (Cloud's Chevron). In addition, an Underground Injection Control permit has been issued to Palmetto Environmental Group, Inc. (PEG), however, the status of the permit is unknown.

Attachment F: Description of Business

The site associated with UST permit numbers 07777 / 12352 was formerly operating as a retail petroleum station. The site is currently utilized as a parking / access area. The site associated with UST permit number 07584 is currently operating as a retail petroleum station.

Attachment G: Area of Review

See Figure 3 for the area included in a quarter mile radius of the site.

Attachment H: Maps of Wells and Area of Review

- 1. Topographic map of surrounding area See Figure 3.
- 2. Scaled map of well locations within the Area of Review See Figure 2.
- 3. Potentiometric map of site See Figure 4.

Attachment I: Cross-Sections/Diagrams

1. Geologic cross-sections of site area – See Figures 5 and 6.

Attachment J: Name and Depth of Underground Sources of Drinking Water (USDW's)

Richland County is located in the upper region of the Upper Coastal Plain Physiographic Province near the interface of the lower Piedmont Physiographic Province. The upper region of the Upper Coastal Plain is typically composed of a sandy or loamy surface layer that is under lain by loamy or clayey subsoil of the Coastal Plain Physiographic Province. Subsurface topography is dominated by a series of nearly level terraces formed by ancient shorelines of the Atlantic Ocean. Those deposits are underlain at relatively shallow depths by residual soils of the Piedmont Physiographic Province.

Based upon previous site investigations conducted by others, the surficial saprolite aquifer is composed of red silty sand grading into a reddish-brown sandy, clayey silt to an investigated depth of 80 feet bsg. Competent rock has not been encountered at the site in previous investigations. Shallow groundwater occurs in the saprolite aquifer at the site at depths ranging from 15-30 feet bgs. Supply wells were not detected within a ½ mile of the subject site.

Attachment K: Hydraulic Control

The proposed rate and location of injection points should not affect shallow groundwater except in the localized areas of the injection points. Static groundwater conditions should return to the affected areas of the site within a short time frame. Undesirable plume migration will be identified by semi-annual monitoring activities. Site specific aquifer analysis values are included as Appendix D determined during previous phases of investigation.

Appendix A

Existing Well Completion Records / Proposed Injection Well Construction



RECEIVE

1. WELL OWNER INFORMATION:					6. P	ERMIT NU	MBER:	555	877					
Name:			al Group, Inc	3 .							UND	ERGROL		
		(last)		(first)	-							TANK P	ROGE	MAF
Address:	P. O. Box 4	27			7. U					voorgene∎vare		Tale .		
					ı	Resider			☐ Public S			Process		
City:	Elgin	State:	SC .	Zip:29045		☐ Irrigatio			☐ Air Cond			□Emerge		
						☐ Test We			☐ Monitorii			Replace	-	1010000
Telephone: V			Home:		8. V	VELL DEP	TH (com	pleted)		Date Starte	d:		9/2	28/2006
	OF WELL:												401	
Name:	Handy Pant						5		ft.	Date Comp	leted:	Tabo I	12/	5/2006
Street Add	ress:	2367 Taylo	r St./1600 T	wo Notch	9.	☐Mud Ro	itary		□Jetted			Bored		
			E 07			□Dug			☐Air Rota	ry		□Driven		
City:	Columbia, S	SC	Žip:			□Cable T			Other	T				
	Richland				10.	CASING:	Linre		Welded	l				
	34°00.77				[Diam.:			Annual control of the second of	Height: Abo				
3. SYSTEM N	VAME:	SYSTEM NUI	MBER:		1	Гуре:	☑ PVC			Surface _				
				s - 8	1	120	☐ Stee		☐ Other	Weight				271
4. CUTTING	SAMPLES:	☐ Yes	☑ No		١.	0	MARCH TELL			Drive Shoe	?	Yes	V	No
			200000		_		in. to		feet depth	<u> </u>				
Geophysic	al Logs:	☐ Yes	☑ No			SCREEN	D1 /0			Diam.	An			
For	mation Descrip	tion	*Thickness of	Depth to Bottom of		Type: Slot/Gauge	PVC	.020		Diam.: Length:	20	T T		
rui	mation Descrip	ROH	Stratum	Stratum		Set Betwee			ft. and 10					
			(2000)		1		-		ft. and	ft.				
Red/b	prown clayey	sand	27'	27'	<u> </u>	Sieve Analy	rsis			(please en	close)			V No
Valley to	arau alauau		18'	45'	12.	STATIC W	ATER L	EVEL		ft. below la	ad aurea	an offer 24	haura	
Tellow to	gray clayey	sano (wet)	10	40	13	PUMPING	LEVEL	Below	Land Surface	IL DEIOW IA	iu surga	CE allei 24	ilouis	
			F1 34						hrs. Pumping		G.I	P.M.		
						Pumping 1				(please en				₩ No
				****		Yield:								
						WATER Q			Yes 🗸 No	Racteris	il Analysi	☐ Yes	No	71
* <u>10 10 10 10 10 10 10 10 10 10 10 10 10 1</u>	*			1 20 0120		Please en					5400 S			
) = 27	N 138 W		a s va			ARTIFICIA			er pack)	✓ Yes			100	
V 17 100.00		200				Installed fr			44	ft. to	45		ft.	
	 	·····				Effective s		-	✓ Yes	Uniformity No	Coefficie	nt		
					10.	VELL GR	ement	r D Sa	nd Cement □	Concrete E	1 Othe	407		
	-		 		1	Depth: Fr	om		10	ft. to		40	ft.	
) 					17.	NEAREST	SOUR		POSSIBLE CO			ft	·	direction
					1	-		_ Ty	pe well disinfect			mount:		
					18	PUMP:	Date In	stalled	unpon comp	ieduli M		lot installed	D	
						Mfr. Name			-	Model No.:		y 8		
						H.P	Volts_		Length of drop		ft.	Capacity	(1 -1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	gpn
	7				4	Type:			☐Jet (sha			☐Turbine		
					10	WELL DR	Jet (dee	(P)	☐Recipro Robyn Barkley		.:	☐Centrifu 934		-
						Address:		atson	. Nobyli Dairie	JERT HO			•==3	
							Elgin, S		145					
Indicate Wa	ater Bearing Zor	nes (Use			1									
	nd sheet if need	ded)			1		222							
5. REMARKS	S:				-	Telephone	No.:	VERNOR .	(803)438-1331		This	1 was daile -	upda	·
									CTOR'S CERTI				ungel	illy
					lane.	ouon diu i	ue icho		O to the post Of I	y ra rowiedę	jo and Di			
					1	- b	1	A	1.0					
					Sic	ned: R	m	13	a blom	Date:	1	2/27/2006	3	
					Joig		zed Repres	entative	- y					
														-





1. WELL OWNER INFORMATION:	- AIGE REPRESENTATION	O DECREE AN INC.	DED.	877	· .		
		6. PERMIT NUMI	BER:	0//	U	NDE HURTOUNI	STORAGE
Name: Palmetto Environmental Group, Inc. (last) (firs	st)					TANK PRO	GRAM
Address: P. O. Box 427		7. USE:				· · · · · · · · · · · · · · · · · · ·	2001 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 1
		□Residentia	al	☐ Public S		✓ Process	
City: Elgin State: SC Zip:	:29045	☐ Irrigation		☐ Air Cond	litioning	☐ Emerge	70
		☐ Test Well		☐ Monitorii	ng Well	□Replace	
Telephone: Work: Home: 2. LOCATION OF WELL: AS-2		8. WELL DEPTH	(completed)		Date Started	i	9/28/2006
	>ida	45		ft.	Data Camal	atad.	12/15/2006
Name: Handy Pantry #65/Cloud's Chevron/S Street Address: 2367 Taylor St./1600 Two		45 9. □Mud Rotar			Date Comple	Bored	12/13/2000
Street Address: 2307 Taylor St./1000 Two	NOIGH	Dug	ıy	☐Air Rota	nv	□Driven	
City: Columbia, SC Zip:		☐Cable Too	1	□ Other	ıy	ШЫмен	
COUNTY: Richland		10. CASING:		Welded	1 **		
Latitude: 34°00.77 Longitude: 81°00.97			- Illeaden	411	Height: Abov	ve/Relow	
3. SYSTEM NAME: SYSTEM NUMBER:		Diam.:	PVC	☐ Galvanized		rer Delow	
3. 313 I EM NAME: 313 I EM NUMBER:		E]Pvc]Steel	☐ Other	Weight		
4. CUTTING SAMPLES:				feet depth	15100-1-00-00-00-00-00-00-00-00-00-00-00-0		☑ No
T. COLUMN SAMPLES. LI 165 MI 140				feet depth	DITAG GLIDE	□ 169	33 NO
Geophysical Logs: 🔲 Yes 📈 No		11. SCREEN		reer debut	1 10 100 h 1		
	Depth to		VC		Diam.:	4"	
	Sottom of	Slot/Gauge:	.020	<u> </u>	Length:	4" 20'	
Stratum	Stratum	Set Between:		ft. and 10	ft.		.n si
Red/brown clayey sand 27'	27'	Sieve Analysis		ft. and	_ft. (please encl	ose)	[7] No
rious/ouri oujoy dana 27		12. STATIC WAT	TER LEVEL		(picaco ciro		IN THE
Yellow to gray clayey sand (wet) 18'	45'				ft. below lan	d surgace after 24 l	iours
		13. PUMPING LE			W	CPM	CONTRACTOR OF THE CONTRACTOR
		Pumping Tes			(please encl		☑ No
		Yield:			(1)-0-10-0		G 1
		14. WATER QUA					
		Chemical Ana Please enclos		Yes 🔽 No	Bacterial	Analysi□ Yes	No.
		15. ARTIFICIAL	FILTER (filte	r pack)	✓ Yes	□ No	***
	**	Installed from	n	44	ft. to	45	ft.
		Effective size 16. WELL GROU		Voc	Uniformity C	cetticient	
1 1		Neat Cem	nent ☐ Sai	nd Cement 🗆		Other	
		Depth: From	1	10	ft. to	40	
		17. NEAREST S					direction
1			ıy	pe well disinfect unpon compl		Type: No Amount:	
		18. PUMP: Da	ate Installed:			Not installed	Z
		Mfr. Name:			Model No.:		
			olts	Length of drop		ft. Capacity ☐Turbine	gpm
		Type: □Su □Je	ubmersible et (deep)	☐Jet (sha ☐Recipro		☐ Centrifu	
	S. 3	19. WELL DRILL	LER:	Robyn Barkley			
		Address: 24		45			
Indicate Motor Pagin Zana (1)			lgin, SC 290	4Đ .			
Indicate Water Bearing Zones (Use a 2nd sheet if needed)		1					
5. REMARKS:		Telephone No	lo.:	(803)438-1331			
		20. WATER WEL	LL CONTRA	CTOR'S CERTI		his well was drilled	under my
		direction and this	s report is true	e to the best of r	ny knowledge	and belief.	
		1.1	1	• =			
		10.1	M	all.		40,000,000	
		Signed:	m D	uney	Date:	12/27/2006	
		Authorized	Representative				



RECEIVED

1. WELL OW	NER INFORM	MATION:			6. PERMIT NU	MBER:	877		UNDERGHOU		
Name:	Palmetto i	Environment (last)		C. (first)					TANK PR	OGR/	M
Address:	P. O. Box	427			7. USE:		93		100		
					Residen	tial	☐ Public St	upply	✓ Process		ı
City:	Elgin	State:	SC	Zip:29045	☐ Irrigation	l .	☐ Air Cond	itioning	□Emerge	ncy	1
Oily.	Ligit	Oldio.	00	ZIP.200-10	☐Test We		☐ Monitorir		Replace	700 POLY (#1)	ı
Talashana: V	Node:		Uemai		8. WELL DEPT			Date Started		-	3/2006
Telephone: V		AC 2	Home:	<u> </u>	O. WELL DEFI	n (completeu)	12	Date Started		UIZ	3/2000
2. LOCATION				- 104-		=	•	D-4- 0		10/1	5/2006
		ntry #65/Clo				5	ft.	Date Comple		12/13	3/2000
Street Add	ress:	2367 Taylo	or St./1600 T	wo Notch	9.	ary	□Jetted □Air Rota	у	☑ Bored ☐Driven		
City:	Columbia,	SC	Zip:		☐Cable To	ool	□Other				
	Richland		2550 0 0		10. CASING:	☐Threaded	Welded				
Latitude:	34°00 77	Longitude:	81°00 97		Diam.:			Height: Abov	ve/Below		ļ
3. SYSTEM N		SYSTEM NU			-	PVC					- 1
3. 3 13 I EM P	WHE.	3131EM NO	HIDER.		E 65.600 15	Steel □	Other	Weight			- 1
4. CUTTING	0.4401 FO	☐ Yes	☑ No			36 18 mma-c			□ Yes		u_
4. CUITING	Jamplej:	LJ TES	PKT 140		—y	in. to <u>45</u>		Drive Silver		- I	١ ١
Geophysic	al Logs:	☐ Yes	☑ No		11. SCREEN						
				Depth to		PVC		Diam.:	4"		_
For	mation Descr	iption	*Thickness of Stratum	Bottom of	Slot/Gauge:			Length:	20'		}
			Stratum	Stratum	Set Between	n: <u> </u>	ft. and 10	ft.			1
Red/b	rown claye	ev sand	27'	27'	Sieve Analy		ft. and	ft. (please encl	ose)		No.
					12. STATIC W					X8 VAIS	
Yellow to	gray clayey	sand (wet)	18'	45'	-	CEOPT ST	10.4	ft. below lan	d surgace after 24 i	tours	
					13. PUMPING		hrs. Pumping		CPM		- 1
					Pumping To	it. aiter	nis. Pumping. Yes □	(nlease encl	G.F.IVI.		No
					Viold:			(bicase ciro	(030)		2
					14. WATER QU	JALITY					
111					Chemical A	ınalysis 🔲	Yes 🔽 No	Bacterial	Analysi□ Yes	No.	
					Please enc	lose lab results	3	1.4 V			
			0.00	2	15. ARTIFICIA)M		Yes ft. to	☐ No 45	ft.	
					Effective size		44	Uniformity C		IL.	
					16. WELL GRO		✓ Yes	□ No			
					☑ Neat Ce	ment 🗆 Sa	nd Cement	Concrete 🗀	Other		
-					Depth: Fro			ft. to	40		
			ļ		17. NEAREST		POSSIBLE CON				direction
						1y	pe well disinfect unpon compl		No Amount:	All real	
					18. PUMP:	Date Installed:			Not installed	V	
					Mfr. Name:			Model No.:			
						Voits	Length of drop		ft. Capacity		gpm
						Submersible	☐Jet (sha		☐Turbine		
					19. WELL DRI	Jet (deep)	☐Recipror Robyn Barkley		☐Centrifu 934		
						2485 Watson	Nobyli Baikley	JERT. NU.	. 534		
				The second secon		Elgin, SC 290	45				
	iter Bearing Z		0.0			HC6 86					
	nd sheet if ne	eded)	<u> </u>	L	1	22					
5. REMARKS	S:				Telephone		(803)438-1331		63.5555 A.M. S.	· · · · · · ·	
							CTOR'S CERTING to the control of the		This well was drilled	underi	ny
					Tallection and tr	no roborres ara	e to the best of t	ny miowicuge	Julio Soliol.		1
						1 s					ì
					Signed: WA	an B	arklow	Dete:	12/27/2006		
					Signed: Wo	ed Representative			12/2/12000		
	8 W N					1					



I. WELL OWNER INFORMATION:						ERMIT NU	MBER:		877					
Name:	Palmetto En				•									i
SANCE OF THE PROPERTY.	100 mm	last))	(first)	7 10	ee.								
Address:	P. O. Box 42	21			7. U		اجلا		TT Doubles Co	mphe	ñ	Process		1
				W. 000.00	6 93	Residen			☐ Public St		9	☑ Emerger		
City:	Elgin S	State:	SC :	Zip:29045	1	☐ Irrigation			☐ Air Cond ☐ Monitorir			Replace		1
	Ar-ar-		1 Forest		_	Test We		- A 1				LI Replace		8/2006
Telephone: V			Home:		8. W	ELL DEP	IH (compl	ieted)		Date Starte	a:		312	.0/2000
	N OF WELL:		udla Characa	104-		. 2	E		4	Date C	dated:		10/4	5/2006
Name:	Handy Panti				_	4 □Mud Ro	5		ft. □Jetted	Date Comp		✓ Bored	121	3/2000
Street Add	ress: 2	236/ 1 aylo	r St./1600 T	MO INOICH			eldry		□Jetted □Air Rotar	v	9	☑Driven		
0''-	Calumbia C					□Dug □Cable T	'aal		☐Other	y		PDIME		
City:	Columbia, S)U	Zip:					ind	Welded	T				AVVec-next
	Richland		04000 07		10.1000000	CASING:	□ inreat		77	Hoight: Ab-	wo/Poles			
er e	34°00.77 L				1	Diam.: .				Height: Abo				
3. SYSTEM N	NAME: {	SYSTEM NUM	VIBER:		1	Гуре:	PVC			Surface _		-		
							☐ Steel		Other	Weight				
4. CUTTING	SAMPLES:	☐ Yes	✓ No		-	0	in. to _			Drive Shoe	77 🗆	Yes	V	No
	2014 P. PODRESIO						in. to		feet depth	L				
Geophysic	al Logs:	☐ Yes	☑ No	Danth 4-	100000000000000000000000000000000000000	SCREEN	DVC			Diam :	4"			
Eor	rmation Descripti	ion	*Thickness of	Depth to Bottom of		Type: Slot/Gauge	PVC 0	20		Diam.: Length:	20			—
FUI	aori Descript		Stratum	Stratum		Set Betwee			ft. and 10	ft.				_
20-20 Maria		25	928-3		1				ft. and	ft.	325 ×			
Red/t	brown clayey	sand	27'	27'		Sieve Analy			☐ Yes	(please end	close)			√ No
Yellow to	gray clayey s	and (wet)	18'	45'	12.	STATIC W	ATER LE	VEL		ft. below la	nd suraa	e after 24 h	Oure	
I SHOW IO	Sigh Cidyen S	and (MGI)	10		13.1	PUMPING	LEVEL B	elow	Land Surface				u.3	
									hrs. Pumping		G.P	'.M.		
						Pumping T				(please end	200			₩ No
						Yield:	IIAI PAZ							
						WATER Q Chemical A			Yes 🔽 No	Bacteria	al Analysi(☐ Yes	No	7
					1	Please end	close lab n	ب esults	W. INU	-a016116	relection to the recognition of the relation o			
		2000			15.	ARTIFICIA	L FILTER	₹ (filter	r pack)	✓ Yes		No		
a same of man			1 1	20 0 1		Installed from	om		44	ft. to	45		ft.	Ì
						Effective s		- E - DC	✓ Yes	Uniformity No	Coemiciei	ıt	-	
					10.	Neat C	ement [] Sar	d Cement □) Other			
					1 ī	Depth: Fro	om		10	ft. to		40		
	E 10				17.	NEAREST	SOURCE		POSSIBLE CON	ITAMINATIO		ft.		direction
		N - 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Section 1		Ту	pe well disinfecto			nount:		
		6 9			19	PUMP:	Date Insta	alled.	unpon compl	etion 🔽		nount: ot installed	Z	
	Surface					Mfr. Name				Model No.:	8-31 2009/00 10			- A1
					1 1	H.P	Volts		Length of drop	pipe		Capacity		gpm
			S 90	2	↓ '	Type: 🔲			□Jet (shal			☐ Turbine	aol	
		1			10	WELL DR	Jet (deep)		☐Reciprod Robyn Barkley			☐Centrifu 934	_	on sense
						Address:		tson	יייייייייייייייייייייייייייייייייייייי			334		
	and the second s	50		8	•		Elgin, SC		45					
	ater Bearing Zon			88 A			9077 ES							
a 2 5. REMARKS	Ind sheet if need	eu)				Telephone	No:		(803)438-1331					Ì
. REMAKKI	J.							TRA	CTOR'S CERTI	FICATION:	This well	was drilled	under	my
									e to the best of n					
							•	200						
					8	MI	7	A	61					1
					Sign		m'	Ba	Min	Date:	12	/27/2006		10.000
<u> </u>	100 Aug						zed Represen	ntative	9				(a) (b) (c)	
					-	This ship was a second		-						



Name: Palmetto Environmental Group, Inc. (ilest) Address: P. O. Box 427 City: Eigh State: SC Zip.23045 Name: Handy Pantry #85/Cloud's Chevron/Site Street Address: 2437 Taylor St./1600 Two Notch Lettinute: 34"00.77 Longitude: 31"00.97 Lettinute: 34"00.77 Lougitude: 34"00.77 Longitude: 31"00.97 Lettinute: 34"00.77 Longitude: 34"00.	1. WELL OWNER INFORMATION:					6. PERMIT NU	IMBER:	877				
City: Eigh State: SC Zip.29045 City: Eigh State: SC Zip.29045 City: Eighprine: Work: Hame: Handy Partly #65/Cloud's Chevron/Site Meme: Handy Partly #65/Cloud's Chevron/Site Meme: Handy Partly #65/Cloud's Chevron/Site Meme: 2387 Taylor St./1600 Two Notch Gity: Columbia, SC Zip: Colu	Name:	Palmetto E						<u> </u>				
City: Eigin State: SC Zip:29045 California California	Address:	P. O. Box	427		•	7. USE:				ngayaran	and the second second	A- 54
Trest Well						Resider	ntial	☐ Public S	upply	✓ Proces	3S	
Redpinow Work	City:	Elgin	State:	SC .	Zip:29045	□Irrigatio	'n			☐ Emerg	ency	
LOCATION OF WELL: AS-5 Name: Handy Panty #85/Cloud's Chevron/Site 45 ft. Date Completed: 12/15/2008 Taylor St./1600 Two Notch Dispersion Date Dispersion Doubler Dispersion Dispersion Doubler Dispersion Doubler Dispersion Dis	(15)	957/			\$* \$	☐ Test We	ell	☐ Monitorir	ng Well	☐ Replac		
Name: Handy Panty #856/Cloud's Chevron/Site 45 ft. Date Completed: 12/15/2006				Home:	1 9 <u>1221/2022 - Million D</u> . (1122-11	8. WELL DEP	TH (completed))	Date Started:		9/2	8/2006
Street Address: 2367 Taylor St./1600 Two Notch City: Columbia, SC Zip: COUNTY: Richland Latitude: 34700.77 Diam: 1" Height Above/Below Letting Lettin	2. LOCATIO	N OF WELL:	AS-5		A1000							100.00000000000000000000000000000000000
Street Address: 2367 Taylor St./1600 Two Notch City: Columbia, SC Zip: COUNTY: Richland Lettude: 34°00.97 3. SYSTEM NAME: SYSTEM NUMBER: CUTTING SAMPLES: Yes ZI No Geophysical Logs: Yes Zi No Formation Description Thickness of Stratum Stratum Red/brown clayey sand (wet) 18' 45' Yellow to gray clayey sand (wet) 18' 45' 15. PMPINOL EVEL Selow Land Surface Pumping Test: Yes (please enclose) 15. ARTIFICIAL HITTER GRAIN (Property) 16. Wellow Land Surface 17. PMPINOL EVEL Selow Land Surface 17. PMPINOL EVEL Selow Land Surface 18. FATHFICIAL HITTER (Plan In Installed from Hr. Property) 18. ARTIFICIAL HITTER GRAIN (Plan Installed from Hr. Installed Installed from Hr. Installed Install	Name:	Handy Par						_ ft.	Date Complete			5/2006
Country: Richland Cabinary Richland Cabinary Richland Cabinary Richland Cabinary Richland	Street Add	ress:	2367 Taylo	r St./1600 T	wo Notch	C. C	otary	□Jetted		A CONTRACTOR OF THE PROPERTY O		
COUNTY: Richland Lettude: 34*00.77 Longitude: 81*00.97 Dearm: 1:		5120 U W W	Transportation .				0. 22		ry	□Driver	ľ	
Latitude: 34°00.77 Longitude: 81°00.97 Type: PVC Galvanized Surface Weight Drive Shoe? Yes No In. to feet depth feet feet depth feet			SC	Zip:								
Type:	Programme and the second of th			1860 N		10. CASING:		27		22.2		
CUTTING SAMPLES:	Latitude:	34°00.77	Longitude:	81°00.97								
CUTTING SAMPLES:	3. SYSTEM	NAME:	SYSTEM NUI	MBER:		Type:	47 (1968		B00000000		r	
Scent Seed of the composition Stratum		4										
Thickness of Stratum Store Stratum Store Stratum Store Stratum Store Store Stratum Store Stratum Store Store Stratum Store Store Stratum Store Sto	4. CUTTING	SAMPLES:	☐ Yes	✓ No		0		and the state of t	Drive Shoe?	☐ Yes	M	No
Trickness of Stratum Stream Strea							in. to	feet depth	<u> L</u>			-
Formation Description Thickness of Soliton of Stratum Slott/Sauges:	Geophysic	al Logs:	☐ Yes	✓ No			5 1.00		D :	An		
Stratum Stra	Fa-	mation Desert	ntion	*Thickness of						20'		
Red/brown clayey sand 27' 27' Sieve Analysis Yes (please enclose) No No Yes (please enclose) No Yes (please enclose) No Yes (please enclose) No Yes (please enclose) Yes (please)	1-01	mauun Desch	Puon		DOUGHI OF			ft. and 10				
Yellow to gray clayey sand (wet) 18' 45' 18. PUMPING LEVEL Below Land Surface	(ness			and the		1		ft. and	ft.			
Yellow to gray clayey sand (wet) 18' 45' 13. PUMPING LEVEL Below Land Surface	Red/t	orown claye	y sand	27'	27'	Sieve Anal	ysis	☐ Yes	(please enclos	ie)		☑ N
13. PUMPING LEVEL Below Land Surface ft. after hrs. Pumping G.P.M.	Velloute	arev elever	sand (wat)	191	AEI	12. STATIC W	ATER LEVEL	y	ft holowland	surnace after 24	hours	
ft. after	I GIIOM (O	gray clayey	sanu (Wet)	10	40	13. PUMPING	LEVEL Below	Land Surface	IL DEIOW IBRO	ourgave site Za	c nouls	
Pumping Test:							ft. after	_hrs. Pumping				ppswe
14. WATER QUALITY Chemical Analysis Yes No Bacterial Analysis Yes No Please enclose lab results					*	Pumping 1			(please enclos	se)	D 202 A	Ø N
Please enclose lab results 15. ARTIFICIAL FILTER (filter pack) Installed from 44 ft. to 45 ft. Effective size Uniformity Coefficient 16. WELL GROUTED? Neat Cement Sand Cement Concrete Other		· · · · · · · · · · · · · · · · · · ·				14. WATER Q			88 W PA			**
Installed from 44 ft. to 45 ft. Effective size Uniformity Coefficient 16. WELL GROUTED?						Please en	close lab result	s	ACT Product Consideration Consideration (19)	MANUAL MANUAL DANS	No⊡	<u> </u>
Effective size											æ	
16. WELL GROUTED? Yes	- marine area 1985 (1977 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1	m 55955	come preparati Preparati	F				44			π.	
Neat Cernent Sand Cernent Concrete Other				\vdash		16. WELL GR	OUTED?	✓ Yes	☐ No			
Depth: From 10 ft. to 40 ft.						☑ Neat C	ement 🔲 Sa	and Cement	Concrete	Other		
Type well disinfected						Depth: Fr	om	10	ft. to	4		diam'r.
Length of drop pipe						17. NEAREST					·	directio
18. PUMP: Date Installed:			32	[8				Amount:		
Mfr. Name:			-			Commercial		Name and Address of the Owner, where the Person of the Owner, where the Owner, which the Owner, where the Owner, which the Owner, whic			i 🗸	
Type: Submersible Jet (shallow) Turbine Jet (deep) Reciprocating Centrifugal 19. WELL DRILLER: Robyn Barkley CERT. NO.: 934 Address: 2485 Watson Elgin, SC 29045 Indicate Water Bearing Zones (Use a 2nd sheet if needed) Telephone No.: (803)438-1331 20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: My Bukkey Date: 12/27/2006		Pi			<u> </u>	Mfr. Name		Laurent de		B 0		
Jet (deep) Reciprocating Centrifugal											. —	gpr
19. WELL DRILLER: Robyn Barkley CERT. NO.: 934 Address: 2485 Watson Elgin, SC 29045 *Indicate Water Bearing Zones (Use a 2nd sheet if needed) Telephone No.: (803)438-1331 20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: Wyw Bulley Date: 12/27/2006		W 18										9
*Indicate Water Bearing Zones (Use a 2nd sheet if needed) 5. REMARKS: Telephone No.: (803)438-1331 20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: Wy Date: 12/27/2006			<u> </u>	- 154 p		19. WELL DR	ILLER:	Robyn Barkley				******
a 2nd sheet if needed) Telephone No.: (803)438-1331 20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: Live Date: 12/27/2006						Address:		IN 26 497269 IN 141				
Telephone No.: (803)438-1331 20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: Lyw Bulley Date: 12/27/2006				AND TO THE PERSON OF STREET STREET	Pauli 1990 (OAC) (Processors Co	1						
20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: Bulley Date: 12/27/2006		THE PARTY OF THE P	suea)		<u> </u>	Telephone	No ·	(803)438-1331				
direction and this report is true to the best of my knowledge and belief. Signed: Ruley Date: 12/27/2006	J. REMAKK	a.				20. WATER V	VELL CONTRA	CTOR'S CERTI	FICATION: Thi	is well was drille	d under	my
Signed: Rober Date: 12/27/2006												
						27	Λ					
						1	1 M	. 11				
Authorized Representative							m 13	arten	_ Date:	12/27/200	6	
						Authori	zed Representative					



1. WELL OWNER INFORMATION:					6. PERMIT NU	JMBER:	877					
Name:	Palmetto Er	nvironment (last)		C. (first)				10 au - 10 au				
Address:	P. O. Box 4	27			7. USE:	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -						30
F					□Reside	ntial	☐ Public S	.5.7.5	10	Process		
City:	Elgin :	State:	SC	Zip:29045	□Irrigatio	n	☐ Air Cond	10090 WIND 120 0		Emergen		
10.00 (10.00)	100				☐ Test W	ett	☐ Monitorii	ng Well		Replacen	-	
Telephone: V			Home:		8. WELL DEP	TH (completed)	Date Started:			9/2	8/2006
2. LOCATION	N OF WELL:											
Name:	Handy Pant					15	ft.	Date Complet			12/1	5/2006
Street Add	ress:	2367 Taylo	r St./1600 T	wo Notch	9. Mud Ro	otary	☐Jetted		4 1	Bored		
					□Dug		☐Air Rota	ry		Driven		
City:	Columbia, S	SC	Zip:		☐Cable 1		□Other	•	V/265			
50	Richland		Vi conservation and		10. CASING:	☐ Threaded	Welded	en States on the Assault				
Latitude:	34°00.77	Longitude:	81°00.97		Diam.:		1"	Height: Above	e/Below			
3. SYSTEM I	NAME:	SYSTEM NU	MBER:		Type:	☑ PVC	☐ Galvanized	Surface				
						☐ Steel	☐ Other	Weight				
4. CUTTING	SAMPLES:	☐ Yes	✓ No		0	in. to <u>45</u>		Drive Shoe?		es	Ø	No
ł			37			in. to	feet depth					
Geophysic	al Logs:	☐ Yes	☑ No		11. SCREEN		n osera					
_		••	*Thickness of	Depth to	Type:	PVC		Diam.:	<u>4"</u> 20'			_
For	rmation Descrip	tion	Stratum	Bottom of Stratum	Slot/Gauge	en: .020	ft. and 10	Length:ft.	20			
		· · · · · · · · · · · · · · · · · · ·	VIV. 1442-1653 (VIV. 1446)	Suatum	J Get Betwee	"" ———	ft. and	- ft.				
Red/t	brown clayey	sand	27'	27'	Sieve Anal	ysis	☐ Yes	(please enclo	se)			✓ No
V 0 1			401	451	12. STATIC V	VATER LEVEL				04 04 04		
Yellow to	gray clayey s	sand (wet)	18'	45'	13 DIMPING	LEVEL Below	Land Surface	ft. below land	surgace a	mer 24 no	urs	
1		10					hrs. Pumping		G.P.M.			
:					Pumping 7			(please enclo	se)			₩ No
					Yield:							
					14. WATER C		Yes 🔽 No	Bacterial A	nalvei⊟	Yes	No	1
558 B				is 19		close lab result		Daotorium		.00		110 00000000
					15. ARTIFICIA	AL FILTER (filte	er pack)	✓ Yes			vs	
	85 W 10 546		TOTAL W	6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		rom	44	ft. to	45		t.	
					Effective s	ROUTED?	✓ Yes	Uniformity Co	enicient		-	
							and Cement 🗆	Concrete	Other		9	<u> Name de la composition della composition della</u>
	 				Depth: Fr	om	10	ft. to		40	ł.	
					17. NEAREST		POSSIBLE CO			ft.		direction
W 70137 WW						Ty	ype well disinfect unpon compl			nt:		
	4787 47 74				18. PUMP:	Date Installed				nstalled	Z	
					Mfr. Name			Model No.:				
		·			H.P.	Volts_	Length of drop		_ ft. Cap	acity Turbine		gpm
	90	2 23				Submersible Jet (deep)	□Jet (sha □Řecipro			Lurbine Centrifug	al	
					19. WELL DR		Robyn Barkley			934		
	\$ 1 ms					2485 Watson Elgin, SC 290	253 15					
*Indicate Wa	ater Bearing Zor	nes (Use			1		P0000000000000000000000000000000000000					
	and sheet if need				S7							
5. REMARK	S:		· · · · · ·	30	Telephone	e No.:	(803)438-1331					
							CTOR'S CERTI				ınder	my
					direction and	unis report is tru	ue to the best of r	ny knowleage	and belief.	•		
					1		6 1.					
l					Simon II A	In. 1	San Bland	Date:	12/2	7/2006		
1					Signed: ///	ized Representative	winey	_ Date	LIL	12000		35 n
L					7 423101				10 Mars			



1. WELL OWNER INFORMATION:					6. PERMIT NU	JMBER:	877				
Name:	Palmetto E	Environmenta (last)		C. (first)			1 U 3 3457134 00 00 00				<u> </u>
Address:	P. O. Box			2 2	7. USE:		200		W		
					□Reside	ntial	☐ Public S		✓ Proc	ess	
City:	Elgin	State:	SC :	Zip:29045	□Irrigatio	n	☐ Air Cond	ditioning	□Eme	rgency	
g or 💀	NOTE N			5 2 W 18	☐Test W		□Monitori	ng Well	☐ Repl	acement	
Telephone:			Home:		8. WELL DEP	TH (completed	D	Date Started:		9/	28/2006
2. LOCATIO	N OF WELL:		22 53-552	W2001			-			, <u>19</u> 11	
Name:	Handy Par	ntry #65/Clou				45	_ ft	Date Complete			15/2006
Street Add	iress:	2367 Taylo	or St./1600 T	wo Notch	9. Mud Ro	otary	☐Jetted		Bore		
	0-1	00			□ Dug	F- 21	□Air Rota	ıry	□Drive	en	
City:	Columbia,	5 C	Zip:		Cable 1		Other	т			
A TANK PROPERTY OF THE PARTY OF	: Richland	124 122 12	04000 07		10. CASING:	⊔inreaded	Welded	Lloight Above	/Polow		
		Longitude:			Diam.:	Zin 40	1"	Height: Above			
3. SYSTEM	NAME:	SYSTEM NUI	MBER:		Type:	☑ PV6	☐ Other	Surface Weight	0000000000	_	
A CHITCHIA	CAMPI FO.	☐ Yes	☑ No		┤ ∧	☐ Steel		1		_ Z	No
4. CUI IING	SAMPLES:	⊔ tes	AT NO		I ——	in. to <u>45</u> in. to	feet depth	Dilve Silve?	L 162	M.	NO
Geophysic	sall one:	☐ Yes	☑ No		11. SCREEN	III. (U	ieet deptit	<u> </u>			
Geophysic	wii Logo.	<u>п 168</u>		Depth to	Type:	PVC		Diam.:	4"		
Fo	rmation Descri	ption	Thickness of Stratum	Bottom of	Slot/Gauge	.020		Length:	20'		
			Sudium	Stratum	Set Betwee	en: <u>1</u>	ft. and10				
Red/	brown claye	v sand	27'	27'	Sieve Anal	ysis	ft. and ☐ Yes	_ft. s (please enclos	}e)		₩ No
					12. STATIC W	VATER LEVEL	<u>, , , , , , , , , , , , , , , , , , , </u>				
Yellow to	gray clayey	sand (wet)	18'	45'	42 61111111	TEUPL S.	v Land Surface	ft. below land	surgace after.	24 hours	
		hatterproped PsVF 2		100			Land Surface hrs. Pumping		G.P.M.		
					Pumping 1		Yes	s (please enclos			No.
					Yield:						
					14. WATER C	7.	Yes 🔽 No	Bacterial A	nalysi⊟ Ye	s No	71
	3 V				Please en	close lab result	ts				<u></u>
					15. ARTIFICIA	AL FILTER (filt	er pack)	✓ Yes	□ No	<u> </u>	
						rom	44	ft. to Uniformity Cod	45 efficient	— ft.	
 	-				Effective s		✓ Yes	□ No	CHOCH		
	-				✓ Neat C	ement 🛚 Sa	and Cement	Concrete	Other	46	
					Depth: Fr	om	10	ft. to		40 ft.	direction
					17. NEARES		POSSIBLE CO			IL	unecuor
						·	_ unpon comp		Amount:		
		22 25			18. PUMP:	Date Installed			Not install	ed 🗸	
<u> </u>					Mfr. Name H.P.	e: Volts	Length of drop	Model No.:	ft. Capacity	b	gpm
1						Submersible	Lengui of drop. Jet (sha		It. Capacity		abii
						Jet (deep)	□Recipro	cating	□Cen	trifugal	
					19. WELL DR			y CERT. NO.:		934	
					Address:	2485 Watson Elgin, SC 290					
*Indicate W	ater Bearing Zo	ones (Use			1						
	2nd sheet if ne										
5. REMARK	S:				Telephone		(803)438-1331			II	
							ACTOR'S CERT			wed unde	er my
}					airection and	uns report is tr	ue to the best of	my knowleage £	anu vellet.		
ł					1		h				
ł					Signed:	1mm	Garden		12/27/20)06	
ľ						ized Representative			· · · · · · · · · · · · · · · · · · ·		
L.,											



WELL OWNER INFORMATION:						PERMIT NU	IMBER:	1200	877					
Name:	Palmetto En													
20 4/2002		last)		(first)	_									
Address:	P. O. Box 4	27			7. ل	JSE:						[7] D		
25.42	72.55 TE	_	20		l	Resider			☐ Public St			Process		i
City:	Elgin 5	State:	SC	Zip:29045	l	☐ Irrigatio			☐ Air Cond			☐ Emerge		
			■ ■ **********************************		_	☐ Test W			☐ Monitorir			Replace		19/200e
Telephone: V			Home:		8. V	NELL DEP	TH (compl	eted)		Date Start	led:		9/2	28/2006
	OF WELL:			- 104-		ia ia	ıe			D-4- C			40/	15/2000
Name:	Handy Pant	7.30			-		5		ft.	Date Com		✓ Bored	12/	15/2006
Street Addr	ress:	236/ Taylo	r St./1600 T	wo Notch	9.	☐Mud Ro	rary		☐Jetted	4.		□ Driven		
0''	Calumbia C	``				□Dug	ool.		☐Air Rotar ☐Other	y				
City:	Columbia, S)U	Zip:		1=	Cable 1		لمحاد	✓Welded					
	Richland		04900 07		00,412,824,013	CASING:	L Inread	ied		Liniaka. At	novo(Dol			
	34°00.77 i	سيماط البارات المسائلة المتناب المتناب المتناب		······································	1 :	Diam.:		1	V	Height: Al				
3. SYSTEM N	NAME:	SYSTEM NUM	MBER:		1	Type:	PVC			Surface	SOUNDED BY D			
			<u> </u>			141	☐ Steel		Other	Weight _				No
4. CUTTING	SAMPLES:	☐ Yes	✓ No			0		45		Drive Sho	e? L	Yes	V	No
			F		<u> </u>		in. to		feet depth					
Geophysic	al Logs:	☐ Yes	☑ No	Depth to		SCREEN Type:	PVC			Diam.:	4"			
Fon	mation Descript	tion	Thickness of	Bottom of		Slot/Gauge		20		Length:		,		
			Stratum	Stratum		Set Betwee			ft. and 10	ft.		A		
			A***	07:					ft. and	ft.				
Red/b	prown clayey	sand	27'	27'	42	Sieve Anal	ysis (ATED I E	(/Ei	☐ Yes	(please er	nciose)			☑ No
Yellow to	gray clayey s	sand (wet)	18'	45'	12.	SIAIIC	MIER LE	YEL		ft. below l	and surga	ce after 24 l	nours	
	g,jj				13.	PUMPING	LEVEL B	elow L	and Surface					
									hrs. Pumping	200	(G.F	P.M.		
						Pumping 1	est:		☐ Yes	(please e	nclose)			☑ No
					14	Yield:	UALITY							
					l - "	Chemical			Yes 🔽 No	Bacter	ial Analysi	□ Yes	No	2
11 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -					1_	Please en	close lab re	esults	25 1/2 (25 (2					
					15.	ARTIFICIA Installed fr			r pack) 44	Y Yes	45	No	ft.	3
					1	Effective s	2040 M		77	Uniformity		nt	16-	
		* ***** · ****			16.	WELL GR	OUTED?		✓ Yes	☐ No		1000000		
	*				1			San	d Cement	Concrete	☐ Other			-
					1	Depth: Fr	om	OFF	10 POSSIBLE CON	ft. to	70N·	40 ft		direction
			88 12 : : : : : : : : : : : : : : : : : :		┨"	MERKES	SOURCE		e well disinfect			".		an scholl
								. 31	unpon compl		No Ar	nount:	51.M 2055	
		37	-		18.	PUMP:	Date Insta	alled:				ot installed	V	
					ł	Mfr. Name	: Volts		Length of drop	Model No		Capacity		gpm
						H.P			jet (sha		IL. '	Turbine		— Эрііі
					1		Jet (deep)		□Reciproc	cating	<u> </u>	☐ Centrifu	ıgal	1
					19.	WELL DR			Robyn Barkley	CERT. N	O.:	934		
	na mpi di Perilipa Propinsi di Solato		NOTES OF STREET	1 To 1 (500)	1	Address:			(E					
*Indi4- 18/-	dae De	- /II-			-		Elgin, SC	2509	N					
	iter Bearing Zon nd sheet if need													
5. REMARKS		100)			1	Telephone	No.:		(803)438-1331					
						WATER V	VELL CON	ITRA	CTOR'S CERTI				unde	r my
					din	ection and	his report	is true	e to the best of r	ny knowled	ige and be	elief.		
					1	1	1	1						
						41)	1	10	. 10					
					Sig	ned: //	byn	W	allon	Date:	12	2/27/2006	i	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
					1	Authori	zed kepresen	native						



1. WELL OWNER	RINFORMATION:	15-W. 15-W. 16-W.		6. PERMIT NUMBER: 877
Name: Pa	almetto Environm			
	(last)		(first)	7 HOE.
Address: P.	O. Box 427		8	7. USE: ☐ Residential ☐ Public Supply ☐ Process
o:		50	7:00045	
City: Elg	in State:	SC	Zip:29045	☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☐ Monitoring Well ☐ Replacement
Talankara 181	E.	ti		
Telephone: Wor	K: FWELL: AS-9	Home:		8. WELL DEPTH (completed) Date Started: 9/28/2006
	r Well: AS-9 andy Pantry #65/9	Cloud's Charron	n/Cita	45 ft. Date Completed: 12/15/2006
Name: Ha		aylor St./1600 T		
Street Address	s. 2307 Te	aylor 31./ 1000 1	MO IAOTOLI	□Dug □Air Rotary □Driven
City: Co	olumbia, SC	Zip:		□Cable Tool □Other
COUNTY: Ri		zip.		10. CASING: ☐ Threaded ☑ Welded
	000.77 Longitude	. 81º00 97		Diam.; 1" Height: Above/Below
3. SYSTEM NAM		NUMBER:		Type: PVC Galvanized Surface
9. 9191EM MAR	ic. Sigiem	HOMBEN.		Steel DOther Weight
4. CUTTING SAI	MDIFS- П	Yes 🗸 No		O in. to 45 feet depth Drive Shoe?
4. COTTING 5A	mrees.	TES ELINO		in. to feet depth
Geophysical L	ous. 🔲	Yes 🗹 No		11. SCREEN
Joophiyolodi L			Depth to	Type: PVC Diam.: 4"
Forma	tion Description	Thickness of Stratum	Bottom of	
	· · · · · · · · · · · · · · · · · · ·	Juanum	Stratum	Set Between: 1 ft. and 10 ft. ft. ft. and ft.
Red/bro	wn clayey sand	27'	27'	Sieve Analysis Yes (please enclose) No
				12. STATIC WATER LEVEL
Yellow to gra	y clayey sand (w	/et) 18'	45'	ft. below land surgace after 24 hours
				13. PUMPING LEVEL Below Land Surface ft. after hrs. Pumping G.P.M.
	W-70-W			Pumping Test: Yes (please enclose)
				Yield:
	n 52° 860 €2 €200		M	14. WATER QUALITY Chemical Analysis ☐ Yes ☑ No Bacterial Analysi☐ Yes No☑
				Chemical Analysis ☐ Yes ☑ No Bacterial Analysi☐ Yes No☑ Please enclose lab results
		ļ		15. ARTIFICIAL FILTER (filter pack) Yes No
Harden N		40 0	, , , , , , , , , , , , , , , , , , ,	installed from 44 ft. to 45 ft.
				Effective size Uniformity Coefficient 16. WELL GROUTED? Yes
				Neat Cement ☐ Sand Cement ☐ Concrete ☐ Other
				Depth: From 10 ft. to 40 ft.
				17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
				Type well disinfected Yes Type: unpon completion No Amount:
				18. PUMP: Date Installed: Not installed ✓
				Mfr. Name: Model No.:
				H.P. Volts Length of drop pipe ft. Capacity gpm Type: Submersible Jet (shallow)
		- 		Type: ☐ Submersible ☐ ☐ ☐ (Strailow) ☐ Turblife ☐ ☐ ☐ Introduce ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
				19. WELL DRILLER: Robyn Barkley CERT. NO.: 934
				Address: 2485 Watson
1. g				Elgin, SC 29045
Indicate Water	Bearing Zones (sheet if needed)	Use	1	
5. REMARKS:	aneet ii necueu)	<u>l'</u>	<u> </u>	Telephone No.: (803)438-1331
a. isminani.				20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my
				direction and this report is true to the best of my knowledge and belief.
				4 1
				Wil hable - to 107 10000
				Signed: Kylyn Bankey Date: 12/27/2006 Authorized Representative
	W 4: 4	- 0		Autrorized Representative



1. WELL OWNER INFORMATION:					MIT NU	MBER:		877					
Name: Palr	metto Environment		C. (first)	e in Cal				***					
Address: P. C	D. Box 427		* 0000000	7. USE:	:					Ü.			
				Resident	tiai		☐ Public Supply			✓ Process			
City: Elgin	State:	SC	Zip:29045	□ Irrigation			☐ Air Cond	litioning		□Emerge	ncy		
15		- V	\$ B	☐ Test Well				☐ Monitorii	ng Well		Replacement		
Telephone: Work:	4 10 200	Home:	1000001	8. WEL	L DEPT	H (comp	leted)		Date Starte	ed:		9/2	28/2006
LOCATION OF	WELL: AS-10												- 1
Name: Handy Pantry #65/Cloud's Chevron/Site					4	5		ft	Date Comp			12/1	5/2006
Street Address:	2367 Taylo	or St./1600 T	wo Notch	9. 🗆t	Mud Rot	ary		□Jetted	*		✓ Bored		
				100 0000	Dug			☐Air Rota	ry		□Driven		
City: Col	umbia, SC	Zip:			Cable To			□Other					
COUNTY: Rick	nland			10. CA	SING:	☐ Threa	ded	Welded					
Latitude: 34°	00.77 Longitude:	81°00.97		Dian	n.: _		1	H	Height: Ab	ove/Belov	N		
3. SYSTEM NAME	: SYSTEM NU	MBER:		Туря	e: [PVC		☐ Galvanized	Surface _				
				17.00 C		☐ Steel		☐ Other	Weight			-0.000000	
4. CUTTING SAMI	PLES: 🗆 Yes	✓ No	100 Maria 100 Ma		0	in. to	45	feet depth	Drive Shoe	? 🗆	Yes	\checkmark	No
						in. to _		feet depth					
Geophysical Log	js: 🗆 Yes	₩ No	9	11. SCI			2. 5.050.0	e e e					
		*Thickness of	Depth to	Туре		PVC			Diam.:	20			
Formatio	n Description	Stratum	Bottom of		/Gauge:		20	ft. and 10	Length:	20		w	
			Stratum	Set	Betweer	· <u> </u>		ft. and	- ''. የኒ				
Red/brow	n clayey sand	27'	27'	Siev	re Analys	sis			(please en	close)			✓ No
				12. ST/	ATIC W	ATER LE	VEL						
Yellow to gray	clayey sand (wet)	18'	45'	49 500	MOIN C	CEVEL	olow I	Land Surface	ft. below la	ind surga	ce after 24	hours	
				13. PU				hrs. Pumping		G.F	P.M.		
				Pur	mping Te			☐ Yes	(please en				☑ No
	85 - 35 - 32		8	Yie	ld:			150030	W//				
70000E000E	* **		2			JALITY	_	v 53 N.	D44	_ 4	- V	NI-C	a .
- A		<u> </u>			emical A	inalysis lose lab r		Yes 🔽 No	Bacteri	ai Anaiysi	L res	No	4
				15. AR	TIFICIA	LFILTER	₹ (filte	r pack)	✓ Yes] No		
		Ì				m		44	ft. to	45		ft.	9
					ective size		-	I di Vas	Uniformity No	Coefficie	nt		
						DUTED?		✓ Yes nd Cement 🗆	Concrete F	☐ Other	•		
				Det	oth: Fro	m		10	ft. to		40	ft.	
				17. NE	AREST	SOURC		POSSIBLE CO	TAMINAT		ft	•	direction
							Ту	pe well disinfect	ed□ Yes	Type:	no.m4.		i
		 		18. PU	MP.	Date Inst	allod.	unpon comp	etion 📈		nount: ot installed	7	
		1			. Name:		wiicu.		Model No.	.		لعا	
	·-····································			H.F	·'	Volts		Length of drop		ft.	Capacity		gpm
				Тур		Submersi		☐Jet (sha			Turbine		
				10 WE	LL DRI	jet (deep	<u>)</u>	☐Recipro Robyn Barkley).:	☐Centrifu 934		
						LLEN: 2485 Wa	itson	, wobjit Dainie	JEINI. RC		33	3 .5	
						Eigin, SC		45					
*Indicate Water B		E-											
	eet if needed)	<u> </u>		7/L-9X 98		22							
5. REMARKS:			•	Tel	ephone	No.:	NTD A	(803)438-1331 CTOR'S CERTI		This well	l was drilles	unde	my
								to the best of				unuel	illy
							. ~		,	g = U			
				1	n	1	h	1 0					9
				Signed	Rod	ma	Ba	rklen	Date:	1:	2/27/2006	<u>}</u>	
				J.g. 100		ed Kepresei	ntative	1					
-						9							



1. WELL OWNER INFORMATION:					6. PERMIT N	UMBER:		877						
Nar	ne:	Palmetto E	Environment											l
(last) (first)														
Add	iress:	P. O. Box	427		8	7. USE:						780-		ł
						Reside			☐ Public S		17	Process		į
City	r.	Elgin	State:	SC .	Zip:29045	☐Irrigati			☐ Air Cond			□ Emergei	200-00 X	l
						☐ Test Well		☐ Monitorii			Replace	- A CO - 1 1 1 CO -	0/0000	
	hone: V			Home:		8. WELL DEF	TH (comp	oleted)		Date Started	:		9/2	28/2006
2. LO	CATION	OF WELL:			22200				-	2.5			481	-
	ne:	10.75	ntry #65/Clo			-	45		ft.	Date Comple			12/1	5/2006
Stre	et Add	ress:	2367 Taylo	r St./1600 T	wo Notch	9.	otary		□Jetted		100	Bored		
			V/1			□Dug			☐Air Rota	ry		Driven		1
City		Columbia,	SC	Zip:		□Cable	AMERICA		Other					
		Richland		140		10. CASING:	☐ Threa		Welded					
Lati	itude:	34°00.77	Longitude:	81°00.97		Diam.:			1"	Height: Abov				
3. SY	STEM N	IAME:	SYSTEM NU	MBER:		Type:	✓ PVC		☐ Galvanized	Surface				
	7 200 200			201 684 81 35 8880			☐ Steel		☐ Other	Weight				1000101
4. CU	TTING	SAMPLES:	☐ Yes	√ No			in. to	45		Drive Shoe?		Yes	\square	No
							in. to		feet depth	1				
Ge	ophysic	al Logs:	☐ Yes	☑ No		11. SCREEN				provide to	A 27			
				Thickness of	Depth to	Type:	PVC	000		Diam.:	20'			
	For	mation Descr	iption	Stratum	Bottom of Stratum	Slot/Gaug Set Between		020	ft. and 10	Length:ft.	20			
					Sudium	Get Detwe			ft. and	- ft.				
	Red/t	prown claye	ey sand	27'	27'	Sieve Ana	lysis			(please enc	ose)			No No
				461	451	12. STATIC	NATER LE	EVEL	and the second second	0 hat	4 4	Ma O.4 *		
Yell	ow to	gray clayey	sand (wet)	18'	45'	42 DIGIBLE	2 EVEL 1	Relain	Land Surface	ft. below lan	u surgad	e arter 24 h	iours	
				[I I - CUMPIN			hrs. Pumping		_ G.P	.M.		
-			- 1 11 11 11 11			Pumping				(please enc	- 10 to account to	er, c, 60,900		☑ No
						Yield:				weter	137/1			
			29		0	14. WATER			Van 178 Na	Destarial	Anglesif] Yes	No	70
		*					Analysis		Yes 🔽 No	Bacterial	Analysi	T 162	NOP	u
				9 6360-103240A-0		15. ARTIFIC				✓ Yes	TE	No		
	3022120					installed	from			ft. to	45		ft.	
						Effective			Tal Van	Uniformity C	oefficier	n		
				The second secon	et en	16. WELL G	Cement [T Sei	✓ Yes nd Cement □	☐ No Concrete ☐	Other			1 2525020000
						Depth: F	rom		10	ft. to		40	ft.	
<u> </u>		MATERIA DE LA COMPANSA DEL COMPANSA DEL COMPANSA DE LA COMPANSA DE				17. NEARES	T SOURC		POSSIBLE CO	NTAMINATIO		ft.		direction
]		_ Ty	pe well disinfect					
			19 19			18. PUMP:	Date Ins	tallad:	_ unpon comp	letion 🔽 l		ount: ot installed		
						Mfr. Nam		iancu.		Model No.:	. ***		لت	
						H.P	Volts_		Length of drop	pipe	ft. C	apacity		gpm
							Submers		□Jet (sha			Turbine		
						19. WELL D] Jet (deep	p)	☐Recipro Robyn Barkley			☐Centrifu 934		
	***	9	53 ST				2485 W	atson	i vooyii baikle		•	004	•	
			(2)				Elgin, So		45					į
India	cate Wa	ter Bearing Z	ones (Use				pessor Sec							
99.CV/20050		nd sheet if ne							Section of the Control of the Contro					
5. RE	MARK	S:				Telephor	e No.:	. inter-	(803)438-1331		Phia	الدارات ممير	ع الموسور ا	r may
									CTOR'S CERTI e to the best of				unaei	my
						direction and	rus repor	t is tru	e to the best of	my knowicugi	and ne	net.		
							1		2 2					
l						Ciarad P	la .	B	ablas -	Date:	12	/27/2006	1	
6						Signed: Author	rizes Represe	entative	way -	_ Date	16	<u>, </u>		
L					s to to	Autre	Поргозе							



I. WELL OWNER INFORMATION:		6. PERMIT NUMBER: 877						
Name: Palmetto Environmental Gre	oup, Inc. (first)							
Address: P. O. Box 427	1. NO 0.0 Co. Co. Co.	7. USE:						
		☐ Residential ☐ Public Supply ☑ Process						
City: Elgin State: SC	Zip:29045	□ Irrigation □ Air Conditioning □ Emergency						
433. • 61 1. • 883. 5.		☐Test Well ☐Monitoring Well ☐Replacement						
Telephone: Work: Home):	8. WELL DEPTH (completed) Date Started: 9/28/2006						
2. LOCATION OF WELL: AS-12								
Name: Handy Pantry #65/Cloud's (Chevron/Site	ft. Date Completed: 12/15/2006						
Street Address: 2367 Taylor St./	1600 Two Notch							
		☐Dug ☐Air Rotary ☐Driven						
City: Columbia, SC Zip:		☐Cable Tool ☐Other						
COUNTY: Richland		10. CASING: ☐ Threaded ☑ Welded						
Latitude: 34°00.77 Longitude: 81°0		Diam.: 1" Height: Above/Below						
3. SYSTEM NAME: SYSTEM NUMBER		Type: PVC Galvanized Surface						
		Steel Other Weight						
4. CUTTING SAMPLES:	☑ No	0 in. to45feet depth Drive Shoe?						
	=	in. to feet depth						
Geophysical Logs: Yes	No Dooth As	11. SCREEN Type: PVC Diam.: 4"						
Formation Description Thick	kness of Bottom of	1, ypc						
Str	ratum Stratum	Set Between: 1 ft. and 10 ft.						
		ft. and ft.						
Red/brown clayey sand	27' 27'	Sieve Analysis Yes (please enclose) No 12. STATIC WATER LEVEL						
Yellow to gray clayey sand (wet)	18' 45'	12. STATIC WATER LEVEL ft. below land surgace after 24 hours						
Tollow to glody outly of the control		13. PUMPING LEVEL Below Land Surface						
		ft. after hrs. Pumping G.P.M.						
500000 V		Pumping Test: Yes (please enclose)						
		Yield:						
		Chemical Analysis ☐ Yes 🕢 No Bacterial Analysi☐ Yes No🗸						
		Please enclose lab results 15. ARTIFICIAL FILTER (filter pack)						
		Installed from 44 ft. to 45 ft.						
		Effective size Uniformity Coefficient						
		16. WELL GROUTED? ✓ Yes □ No						
		✓ Neat Cement ☐ Sand Cement ☐ Concrete ☐ Other						
		Depth: From 10 ft. to 40 ft. 17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction						
		Type well disinfected ☐ Yes Type:						
		unpon completion 🗹 No Amount:						
		18. PUMP: Date Installed: Not installed ✓ Mfr. Name: Model No.:						
		Mfr. Name: Model No.: H.P. Volts Length of drop pipe ft. Capacity gpm						
		Type: ☐ Submersible ☐ Jet (shallow) ☐ Turbine						
		☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal						
		19. WELL DRILLER: Robyn Barkley CERT. NO.: 934 Address: 2485 Watson						
		Address: 2485 Watson Elgin, SC 29045						
Indicate Water Bearing Zones (Use								
a 2nd sheet if needed)	1							
5. REMARKS:	······································	Telephone No.: (803)438-1331						
		20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my						
		direction and this report is true to the best of my knowledge and belief.						
		Signed: Rolun Barklen Date: 12/27/2006						
		Signed: Date: 12/2//2006 Authorized Representative						



1. WELL OWNER INFORMATION:					6. PERMIT NU	JMBER:	877				
Name: Palmetto Environmental Group, Inc. (last) (first)				The second secon	30000		<u> </u>				
Address:	P. O. Box 4	(0)	in the second se		7. USE:						
3					□Resider	ntial	☐ Public S	upply	✓ Proc	ess	
City:	Elgin	State:	SC :	Zip:29045	□Irrigatio	n	☐ Air Cond	☐ Air Conditioning			
0 4 5 6	66 5 47			100K ST 1	☐ Test Well		☐Monitorir	ng Well	☐ Repla	acement	CONTRACTOR OF THE PARTY OF THE
Telephone: V	Vork:		Home:		8. WELL DEP	TH (completed))	Date Started:	0	9/2	28/2006
	OF WELL:	AS-13									9
Name:		- C	ud's Chevror		The second second second	45	_ ft.	Date Comple			15/2006
Street Addr	ress:	2367 Taylo	or St./1600 To	wo Notch	9. Mud Ro	otary	□Jetted		✓ Bore		
) Y	V.—A				□Dug		□Air Rota	ry	□Drive	en .	
HE SECTION	Columbia,	SC	Zip:		☐Cable T		Other				
(a) Survive of the second contraction	Richland				10. CASING:		Welded	45			
	34°00.77				Diam.:		<u>1"</u>	Height: Above			!
3. SYSTEM N	NAME:	SYSTEM NUM	MBER:	শ	Type:	☑ PVC		Control of the Contro		-	
						☐ Steel	Other	Weight			
4. CUTTING	SAMPLES:	☐ Yes	✓ No		0	in. to <u>45</u>		Drive Shoe?	☐ Yes	M	No
	20 232 - 20000000	and the second				in. to	feet depth	<u></u>			
Geophysic	al Logs:	☐ Yes	✓ No	Donald &	11. SCREEN	D\/C		Diam ·	4"		
For	mation Descrip	otion	*Thickness of	Depth to Bottom of	Type: Slot/Gauge	PVC : .020		Diam.: Length:	20'		100 1000
r UI.			Stratum	Stratum	Set Between		ft. and 10				
					1		ft. and	_ft.	SAME **		
Red/b	prown claye	y sand	27'	27'	Sieve Analy	ysis VATER LEVEL	☐ Yes	(please enclo	nse)		No No
Yellow to	gray clayey	sand (wet)	18'	45'	IL STATIC W	MIER LEVEL		ft. below land	surgace after 2	24 hours	
	J J					LEVEL Below					
							hrs. Pumping	<u> </u>			
e e	_ 				Pumping T Yleld:	rest:	☐ Yes	(please enclo	ise)		☑ No
 			 		14. WATER Q	UALITY					-
					Chemical		l Yes ☑ No	Bacterial A	Analysi□ Yes	s No	Z
	<u> </u>				15. ARTIFICIA	AL FILTER (filte	er pack)	✓ Yes	□ No		
				. n com. r	Installed fr	rom		ft. to	45	- ft.	
			 		Effective s		✓ Yes	Uniformity Co	eπicient		
			ļ Ì	}	Neat C	ement IT Sa	and Cement		Other		
					Depth: Fro	om	10	ft. to		40 ft.	
					17. NEAREST		POSSIBLE CON			ft	direction
					1	T)	ype well disinfect unpon compl				
		*****			18. PUMP:	Date Installed:		- TANK BY IN	Not install	ed 🗸	
					Mfr. Name	ə:		Model No.:			
				ļ	H.P.	Voits_	Length of drop		ft. Capacity ☐Turb		gpm
70. W S			 			Submersible Jet (deep)	□Jet (sha □Recipro		⊟ turb ⊟Cent		
8	10, E				19. WELL DR	ULLER:	Robyn Barkley			934	
					Address:	2485 Watson Elgin, SC 290	•	19			
	iter Bearing Zo				1						
	nd sheet if nee	ded)			-	. Me	(000) 400 400				
5. REMARKS	5:			_	Telephone		(803)438-1331 CTOR'S CERTI		nis well was del	led under	r mv
							e to the best of r			iiou uilde	y
					h	1 1	1 1				
					Signed: Kathori	izgli Representative	askley	_ Date:	12/27/20	06	
			70	- 13	1	<u></u>				122	



1. WELL OWNER INFORMATION:					6. PERMIT NU	JMBER:	877				
Name: Palmetto Environmental Group, Inc. (fast) (first)						a menende de d	8890345000 <u>0</u>	<u> </u>			Ô
Address:	P. O. Box 4	27		•	7. USE:					######################################	******
					□Reside	ntial	☐ Public S	upply	✓ Process	in .	
City:	Elgin 8	State:	SC	Zip:29045	☐Irrigatio	☐ Irrigation		litioning	☐ Emerge	ncy	
. 1950				*	☐ Test Well		☐ Monitorii	ng Well	☐ Replace	Replacement	
Telephone: V	Vork:		Home:		8. WELL DEP	TH (completed)	Date Started:	* * *	9/2	8/2006
2. LOCATION OF WELL: AS-14											
Name:	Handy Pant	ry #65/Clo	ud's Chevro	n/Site		15	_ ft.	Date Complete	ed:	12/1	5/2006
Street Add	ress:	2367 Taylo	or St./1600 T	wo Notch	9. Mud Ro	otary	□Jetted		✓ Bored		
					□Dug		☐Air Rota	ry	□Driven		
City:	Columbia, S	SC	Zip:		☐Cable 1	Tool	☐Other		200 2000		
COUNTY:	Richland				10. CASING:	☐Threaded	Welded				
Latitude:	34°00.77 I	Longitude:	81°00.97		Diam.:		1"	Height: Above	Below		
3. SYSTEM N	IAME:	SYSTEM NUI	MBER:		Type:	☑ PVC	☐ Galvanized	Surface			
					l "	☐ Steel	☐ Other	Weight		23	
4. CUTTING	SAMPLES:	☐ Yes	☑ No		1 0	in. to 45	feet depth	Drive Shoe?	☐ Yes	V	No
					force and the second	in. to	feet depth				6003764
Geophysica	al Logs:	☐ Yes	☑ No		11. SCREEN			li o dio			
		1	*Thickness of	Depth to	Туре:	PVC		Diam.:	4"		
For	mation Descript	tion	Stratum	Bottom of	Slot/Gauge			Length:	20'		
			- Octualiti	Stratum	Set Betwee	en:1	ft. and 10 ft. and	. ft. ft.			
Red/b	rown clayey	sand	27'	27'	Sieve Anal	vsis		ຼາເ. (please enclos	e)		No
					12 STATIC W	ATER LEVEL		<u>u</u>			141 112
Yellow to	gray clayey s	sand (wet)	18'	45'				ft. below land	surgace after 24 l	iours	
-2						LEVEL Below			G.P.M.		5 %
					Pumping 1		_ hrs. Pumping □ Yes	(please enclos			☑ No
					Yield:			(piodoo eridio	- ,		
					14. WATER C						_
					Chemical	Analysis □ close lab result	Yes 🔽 No	Bacterial Ar	nalysi⊡ Yes	No	1
						AL FILTER (filte		✓ Yes	□ No		
						rom	44	ft. to	45	ft.	
0					Effective s	ize		Uniformity Coe	efficient	- 12	
					16. WELL GR		Yes Yes	□ No	Out		
			· · · · · · · · · · · · · · · · · · ·		Depth: Fr		ind Cement ☐	ft. to	40	ft	
							POSSIBLE CON				direction
							pe well disinfect	ed Yes Ty	ype:	_	
							unpon compl	etion 🔽 No		- 3	
					18. PUMP: Mfr. Name	Date Installed:		Model No.:	Not installed	\mathbf{Z}	
•					H.P.	Volts	Length of drop		ft. Capacity		gpm
						Submersible	□Jet (sha		□Turbine		
						Jet (deep)	□Reciprod		☐ Centrifu		
No. of the					19. WELL DR	ILLER: 2485 Watson	Robyn Barkley	CERT. NO.:	934		
					Audices.	Elgin, SC 290	145				
Indicate Wa	ter Bearing Zon	es (Use			1						
	nd sheet if need										
5. REMARKS) :				Telephone		(803)438-1331				
									s well was drilled	under	my
					direction and f	inis report is tru	e to the best of n	ny knowledge a	na beliet.		
C.						1					
Š.					P.	13	ble -	D-4	12/27/2006		
					Signed: Authori	zeu Representative	mey	Date:	1212112006		
			·		I Addition	Tropiose italiae					



1. WELL OWNER INFORMATION: Name: Palmetto Environmental Group, Inc.					6. PERMIT NU	MBER:	877				
Name:		nvironment (last)		C. (first)			2000			<u></u>	
Address:	P. O. Box 4	127		**	7. USE:						9
					□Resider	ntial	☐ Public S		✓ Process		
City:	Elgin	State:	SC	Zip:29045	☐ Irrigatio	n	☐ Air Cond	19/00/20/20/00/20/00/20/20/20/20/20/20/20/	□Emerge		8
VI.53.64					☐ Test W	ell	☐ Monitorii	ng Well	Replace		
Telephone: V		- Name and the second s	Home:		8. WELL DEP	TH (completed	1)	Date Started:		9/28	3/2006
2. LOCATION	N OF WELL:	AS-15	16-c- 6-5	-22-22-0200							
Name:			ud's Chevro			15	_ ft.	Date Complete		12/15	5/2006
Street Add	ress:	2367 Taylo	r St./1600 T	wo Notch	9. Mud Ro	COLUMN TO THE PARTY OF THE PART	□Jetted		Bored		
	O-tbi-	00	**************************************		1		☐Air Rota	ry	□Driven		
City:	Columbia, Richland	SC	Zip:		☐Cable 7		Welded	T			
6 S S S S SHANN	34°00.77	La cardina de la	04000 07		THE STATE OF THE PROPERTY OF T	LI Illieaded	1"	Height: Above/	Relow		
And the second s	South the second				Diam.:	☑ PVC		Surface			
3. SYSTEM N	VANIE:	SYSTEM NUI	MBEK:		Туре:	Steel	☐ Galvanizeo ☐ Other	Weight	0.0		
4. CUTTING	SAMDI ES:	☐ Yes	✓ No		1 0		9:00 01 5:50 1000	Drive Shoe?	☐ Yes	2 1	No
4. COTTING	GAMIFEES.	L 163	E 140			in. to	feet depth	Drive Gride:	L 100	، ست	10
Geophysic	allons:	☐ Yes	☑ No		11. SCREEN	III. IQ	icer depui	1			
Соорија	ai Logo.			Depth to	Type:	PVC		Diam.:	4"		
For	mation Descrip	otion	Thickness of Stratum	Bottom of	Slot/Gauge			Length:	20'		_
ļ	****		Suaturi	Stratum	Set Betwee	en:1	ft. and 10	_ ft. _ ft.			
Red/b	orown clayey	sand	27'	27'	Sieve Analy	vsis		_ it. (please enclos	e)		✓ No
					12. STATIC W					A 44	
Yellow to	gray clayey	sand (wet)	18'	45'	43 BUMBING	I EVEL Polov	V Land Surface	ft. below land s	surgace after 24 l	hours	i
							hrs. Pumping		G.P.M.		
					Pumping T			(please enclos	10 CONTRACT PROPERTY		☑ No
					Yield:						
					14. WATER Q Chemical		Yes 🔽 No	Bacterial Ar	nalvsi⊟ Yes	No.	
						close lab result		Dadenai A	ialysic 163	1404	
				s.		L FILTER (file		✓ Yes	□ No	_	
				ABARTINE MESO PERSONAL TA	Installed fr	om	44	ft. to Uniformity Coe	45	ft.	
-	W 68 6 14				16. WELL GR		✓ Yes	□ No	ingen .		
							and Cement 🔲	Concrete	Other		
	10 ON ON				Depth: Fro			ft. to	40		T
ran rate a c					17. NEAREST		POSSIBLE CON ype well disinfect				direction
						•	unpon compl				
	77777852474				18. PUMP:	Date Installed		I design on the electronic on white the design own	Not installed	Z	
					Mfr. Name H.P.	: Volts	Length of drop	Model No.:	ft. Capacity		gpm
				- COLOR BENEFIT AND THE COLOR		Submersible	_ Length of drop ☐Jet (sha		_ it. Capacity ☐Turbine		_ abiii
					1 -	Jet (deep)	□Recipro	cating	□Centrifu	gal	ter exemple
					19. WELL DR		Robyn Barkley	CERT. NO.:	934		
					Address:	2485 Watson Elgin, SC 290					
Indicate Wa	iter Bearing Zo	nes (Use			1		-				
	nd sheet if nee										
5. REMARKS	S:				Telephone		(803)438-1331				
							ACTOR'S CERTI			under r	пу
1					unection and t	una report is tre	ue to the best of r	ny miowieuge a	nd bellet.		
ł					1	1 .	1.				
1					Signed: Ra	In Br	ukler-	Date:	12/27/2006	and the second	
1						zgo Representative	7	_ ~~!~			
						<i>y</i>			-,		



		A REPORT OF THE PARTY OF THE PA									
1. WELL OW	NER INFORM		1 (2)(8)(2)		6. PERMIT NU	IMBER:	877				
Name:		invironment (last)	al Group, Ind	C. (first)							
Address:	P. O. Box 4	427			7. USE:			W			
					Resider		☐ Public S	NYALEM SOLVE	Process		
City:	Elgin	State:	SC .	Zip:29045	☐ Irrigation		☐ Air Cond		□Emerge		
					☐ Test We		☐ Monitoris		Replace		0/0000
Telephone: V	Nork: N OF WELL:		Home:		8. WELL DEP	TH (completed)	Date Started:		9/2	8/2006
Name:			ud's Chevroi	n/Site	1 4	15	_ ft.	Date Complete	d:	12/1	5/2006
Street Add			or St./1600 T		9. Mud Ro				✓ Bored		
					□Dug	swaose N 💌 1	☐Air Rota	ry	□Driven		
City:	Columbia,	SC	Zip:		☐Cable T	'ool	□Other				
N 19 5 8	Richland				10. CASING:		Welded				
	34°00.77	Longitude:	81°00.97		Diam.:		1"	Height: Above/	Below		
3. SYSTEM N		SYSTEM NU				☑ PVC	☐ Galvanized	Surface			
					1 .,,,,,,	□ Steel	Other	Weight		W.	
4. CUTTING	SAMPLES:	☐ Yes	✓ No		·o			Drive Shoe?			No
		4.75. i.37.				in. to				- 	AND STREET
Geophysic	al Logs:	☐ Yes	☑ No		11. SCREEN						
			*Thickness of	Depth to	Type:	PVC		Diam.: Length:	4"		
For	mation Descrip	ption	Stratum	Bottom of	Slot/Gauge:				20'		
			1100 Miles Control of Control	Stratum	- Set netwee	en: <u>1</u>	ft. and 10 ft. and	_ ft. ft.			
Red/b	orown claye	y sand	27'	27'	Sieve Analy		☐ Yes	(please enclose	e)		☑ No
					12. STATIC W						
Yellow to	gray clayey	sand (wet)	18'	45'	12 DIMBINA	1 EVEL Polovi	Land Surface	ft. below land s	urgace after 24 l	nours	
							hrs. Pumping	222220000000000000000000000000000000000	G.P.M.		
				* 148	Pumping T Yield:			(please enclose			☑ No
lana n	10				14. WATER Q	UALITY					
					Chemical A]Yes ☑ No	Bacterial An	nalysi□ Yes	No	3
8					15. ARTIFICIA	L FILTER (filte	er pack)	✓ Yes	□ No		
		1443	· · · · · · · · · · · · · · · · · · ·		Installed fro	om	44	ft. to	45	ft.	
	· · · · · · · · · · · · · · · · · · ·				Effective si			Uniformity Coe	fficient	- 2	
			8		Nest Ca	OUIEU?	Yes and Cement	Concrete C (Other		
					Depth: Fro	om	10	ft. to	40		
		ASOLU II			17. NEAREST	SOURCE OF	POSSIBLE CON	NTAMINATION:	ft.		direction
	44 (04/4	7.00			l	Ty	ype well disinfect				
	77777				18. PUMP:	Date Installed	unpon compl	letion 🔽 No	Amount: Not installed	7	
					Mfr. Name:	X.		Model No.:	A CONTRACTOR OF THE CONTRACTOR		
						Volts_	Length of drop		ft. Capacity	VI	gpm
						Submersible Jet (deep)	□Jet (sha □Recipro		☐Turbine ☐Centrifu		
					19. WELL DR	ILLER:	Robyn Barkley		934		
					Address:	2485 Watson Elgin, SC 290	and a control with the control of the state		33.		
*Indicate Wa	iter Bearing Zo	nes (Use	100 TABLE 1000 TA		1	., =					
	nd sheet if nee]						
5. REMARKS	3:				Telephone		(803)438-1331				
					Company of the control of the contro		ACTOR'S CERTII ue to the best of n			under	my
					Signed: R	l. B	ash lo	Date:	12/27/2006		
						zed Representative	- Variation		1212112000		
	(C) (C)(V) (VX	80 M 10 M 10 M							100000000000000000000000000000000000000		



1. WELL OWNER INFORMATION:			6. PERMIT NU	IMBER:	877				
Name: Palmetto Environmenta (last)									
Address: P. O. Box 427	,	1000 C C C C C C C C C C C C C C C C C C	7. USE:		22 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	v420.00 0.1 0000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	v=1\ <u>V</u> 2003	
		ì	□Residen		☐ Public Su		Process		,
City: Elgin State: S	SC Z	Zip:29045	☐Irrigation		☐ Air Condi	CONTROL CONTROL CONTROL	☐ Emerger		
		ì	☐ Test We		□Monitorin		Replace		
	Home:		8. WELL DEP	TH (completed))	Date Started:		9/2	8/2006
2. LOCATION OF WELL: AS-17	1970 marr	4000000	l		-			<u> </u>	
Name: Handy Pantry #65/Clou				15		Date Complete		12/1	5/2006
Street Address: 2367 Taylor			9. Mud Ro	ntary	□Jetted	Anno	Bored	200	-
).= 		ì	□Dug	1004	☐Air Rotar	ry	□Driven		
N 17	Zip:	Ň	☐Cable T	THE REAL PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAME	Other				
COUNTY: Richland	Yes	i	10. CASING:		Welded		<u> </u>		5
Latitude: 34°00.77 Longitude: 8			Diam.:			Height: Above			
3. SYSTEM NAME: SYSTEM NUM	IBER:		Туре:	☑ PVC		Surface			
				☐ Steel		Weight		۰	2024
4. CUTTING SAMPLES:	☑ No	- 3	0			Drive Shoe?	☐ Yes	\square	No
	<u>a_</u> 10			in. to	feet depth	<u> </u>			
Geophysical Logs: ☐ Yes	☑ No		11. SCREEN	D1 /2		D!	An .	and the state of t	
Formation Description	*Thickness of	Depth to		PVC 020		Diam.: Length:	<u>4"</u> 20'		
Formation Description	Stratum	Bottom of Stratum	Slot/Gauge: Set Betwee		ft. and 10	ft.			
	10 100 100 100 100 100 100 100 100 100		1		ft. and	ft.			
Red/brown clayey sand	27'	27'	Sieve Analy		☐ Yes	(please enclos	se)		No No
	18'	45'	12. STATIC W	VATER LEVEL		ft helmula-1	surgace after 24 h	Our	
Yellow to gray clayey sand (wet)	10		13. PUMPINE	LEVEL Below		" "" neinm igud	veryave diter 24 i	.vui S	
				ft. after	_ hrs. Pumping		G.P.M.		
			Pumping T			(please enclos	 Princeso princeso. 		₩ No
			Yield:	IIAI ITV					
			14. WATER Q Chemical A		Yes 🗸 No	Bacterial A	∖nalysi⊟ Yes	No√	7
			Please end	close lab results	S			-134.	
				AL FILTER (filte		✓ Yes	□ No	A	
		20 P. S.	Installed fro Effective si	rom	_44	ft. to Uniformity Cod	45 efficient	ft.	
			16. WELL GR	OUTED?	✓ Yes	☐ No			
			☑ Neat Ce	ement Sa	and Cement	Concrete	Other		7/
			Depth: Fro	om	10	ft. to	40		dire
			IV. NEAREST		POSSIBLE CON ype well disinfecte				direction
			4 4 2200	1)	ype well disinlecte unpon comple		Amount:		
			18. PUMP:	Date Installed:			Not installed	Z	
			Mfr. Name	o:	Length of drop	Model No.:	ft. Capacity		
				Volts Submersible	Length of drop Jet (shal		ft. Capacity Turbine		gpm
			1	Jet (deep)	□Reciproc	cating	□ Centrifu	ıgal	
			19. WELL DR	ILLER:	Robyn Barkley		934		
	2015	 		2485 Watson Elgin, SC, 290					
Indicate Mater Possing 7			1	Elgin, SC 290	, T-U				1
Indicate Water Bearing Zones (Use a 2nd sheet if needed)	1								
5. REMARKS:			Telephone		(803)438-1331			_	
			20. WATER W	VELL CONTRA	ACTOR'S CERTIF		nis well was drilled	under	my
					ue to the best of n				
			1	Ø					
			h	1. 10	41	92 <u>-</u> 17 88	48 15	W.	
			Signed: Authoris	Tyn Ba	wen	_ Date:	12/27/2006	<u>'</u>	
			Authori.	zeg Representative			No. 1. Parado Sea Cara		



1. WELL OW	NER INFORMA	TION:			6. PERMIT NU	MBER:	877		000		t constant
Name:	Palmetto Er			C. (first)		1991 WOW 1991 SEE SEE					
Address:	P. O. Box 4	5			7. USE:						
					☐ Resider	ntial	☐ Public S		Pro		
City:	Elgin S	State:	SC	Zip:29045	☐Irrigatio		☐ Air Cond			ergency	
and the second s					☐ Test We		□Monitoriı		□Rep	lacement	
Telephone:		2011 A CONTRACTOR OF THE PARTY	Home:		8. WELL DEP	TH (completed)	Date Started:		9/3	28/2006
2. LOCATIO	N OF WELL:							5 4 6 4		10/	15/2006
Name:	Handy Pant					5	_ ft. □Jetted	Date Complete	ea: Bon		13/2000
Street Add	iress:	236/ Taylo	r St./1600 T	wo Notch	9. Mud Ro	tary	□Jetted □Air Rota	n.	□ Driv		
2	O-1	20	4		☐ ☐Cable 1	-ool	□Other	ıy	2011	CII	
City:	Columbia, S Richland	50	Zip:		10. CASING:		Welded			,	
Fig. 10 Company of the Company of th			04000 07		E CONTRACTOR AND	LI Micaucu	1 ¹¹	Height: Above	/Below		
	34°00.77				Diam.:	☑ PVC		Surface			17
3. SYSTEM	NAME:	SYSTEM NUI	NREK:		Type:	□ Steel	☐ Other	Weight			
4 CUTTING	SAMPLES:	☐ Yes	✓ No		1 0	20 200-		Drive Shoe?			No
4. COTTING	SAMPLES.	L 163	SEL INO			in. to	feet depth				(0.00)
Geophysic	cal Logs:	☐ Yes	☑ No		11. SCREEN						<u></u>
Geophysic	oza Łogo.			Depth to	Type:	PVC		Diam.:	4"		
Fo	rmation Descrip	tion	Thickness of Stratum	Bottom of	Slot/Gauge		- N J - 18	Length:	20'	M 50	
			Od ditain.	Stratum	Set Between	en: <u>1</u>	ft. and 10 ft. and	_ ft. _ ft.			
Red/	brown clayey	sand	27'	27'	Sieve Anal	ysis		(please enclos	e)		No No
						ATER LEVEL	ki			04 h	
Yellow to	gray clayey	sand (wet)	18'	45'	42 BUNDING	TEVEL Relow	Land Surface	ft. below land	surgace atter	24 nours	
							_hrs. Pumping	2	G.P.M.		
					Pumping 1		☐ Yes	s (please enclos	e)		☑ No
		***			Yield:	III AL ITY					
į					14. WATER C		Yes 🔽 No	Bacterial A	nalysi⊟ Y	es No	7 1
-					Please en	close lab result	ts				
						AL FILTER (filt		✓ Yes	□ No	ft.	
		000 PFA-98 19-5-58 TIME			Installed fi	rom	44	ft. to Uniformity Cos	45 efficient	H.	
					16. WELL GR	OUTED?	✓ Yes	☐ No			
					✓ Neat C	ement 🔲 Sa	and Cement	Concrete	Other	40.0	
					Depth: Fr	om	POSSIBLE CO) ft. to		40 ft.	direction
					17. NEAKES		ype well disinfect			"	unconon
	00. 5.5 H00030 925 W7002 HV	W. Carrier					unpon comp	letion 🗹 No	Amount:		
					18. PUMP:	Date Installed	:	Model No.:	Not insta	illed 🔽	
					Mfr. Name H.P.	Volts	Length of drop		ft. Capacit	ly	gpm
1			1			Submersible	☐Jet (sha	allow)	□Tu	rbine	
					7 🗀	Jet (deep)	□Recipro		□Ce	ntrifugal	
					19. WELL DR	IILLER: 2485 Watson		y CERT. NO.:		934	
					Audiess.	Elgin, SC 29					
*Indicate W	ater Bearing Zo	nes (Use			7						
	2nd sheet if nee			<u> </u>	200 to 100	-22		1 8			
5. REMARK	(S:				Telephone	e No.:	(803)438-1331 ACTOR'S CERT		ie well was d	rilled unde	er mv
					direction and	this report is to	ue to the best of	my knowledge a	and belief.	mou unde	,
					an court and	spect to to					
1					1	1 1	1 4				
					Signed: Ka	for B	arklan	_ Date:	12/27/2	006	
						izer Representativa	,				
<u></u>						William Control					



1. WELL OWNER INFORMATION:	Silv Silv Silv Silv Silv Silv Silv Silv	6. PERMIT NUMBER: 877
Name: Palmetto Environmental (last)	Group, Inc. (first)	
Address: P. O. Box 427		7. USE:
		☐ Residential ☐ Public Supply ☑ Process
City: Elgin State: SC	Zip:29045	□ Irrigation □ Air Conditioning □ Emergency
		☐Test Well ☐Monitoring Well ☐Replacement
	ome:	8. WELL DEPTH (completed) Date Started: 9/28/2006
2. LOCATION OF WELL: AS-19		
Name: Handy Pantry #65/Cloud		ft. Date Completed: 12/15/2006
Street Address: 2367 Taylor S	St./1600 Two Notch	9. ☐Mud Rotary ☐Jetted ☑Bored
		☐Dug ☐Air Rotary ☐Driven
City: Columbia, SC Zip	p:	□Cable Tool □Other
COUNTY: Richland		10. CASING: ☐ Threaded ☑ Welded
Latitude: 34°00.77 Longitude: 81	1°00.97	Diam.: 1" Height: Above/Below
3. SYSTEM NAME: SYSTEM NUMB	BER:	Type: ☑ PVC ☐ Galvanized Surface
		☐ Steel ☐ Other Weight
4. CUTTING SAMPLES:	☑ No	0 in. to45 feet depth Drive Shoe? □ Yes ☑ No
		in. to feet depth
Geophysical Logs: Yes	☑ No	11. SCREEN
Г	hickness of Bottom of	Type: PVC Diam.: 4" Slot/Gauge: 020 Length: 20'
Formation Description	Stratum Bottom of Stratum	.020
	Suaturi	Set Between: 1 tt. and 10 tt. ft.
Red/brown clayey sand	27' 27'	Sieve Analysis Yes (please enclose) No
Valley to see alexander of (t)	461 461	12. STATIC WATER LEVEL
Yellow to gray clayey sand (wet)	18' 45'	ft. below land surgace after 24 hours 13. PUMPING LEVEL Below Land Surface
		ft. after hrs. Pumping G.P.M.
		Pumping Test: ☐ Yes (please enclose) ☑ No
		Yield:
1		14. WATER QUALITY Chemical Analysis ☐ Yes ☑ No Bacterial Analysi☐ Yes No☑
		Please enclose lab results
		15. ARTIFICIAL FILTER (filter pack) Yes No
		Installed from 44 ft. to 45 ft.
		Effective size Uniformity Coefficient 16. WELL GROUTED? ✓ Yes □ No
		✓ Neat Cement □ Sand Cement □ Concrete □ Other
		Depth: From 10 ft. to 40 ft.
		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
		Type well disinfected Yes Type: unpon completion No Amount:
		18. PUMP: Date installed: Not installed
		Mfr. Name: Model No.:
		H.P. Volts Length of drop pipe ft. Capacity gpm
		Type: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
		19. WELL DRILLER: Robyn Barkley CERT. NO.: 934
		Address: 2485 Watson Elgin, SC 29045
*Indicate Water Bearing Zones (Use		- mgm, 40 200.0
a 2nd sheet if needed)		
5. REMARKS:		Telephone No.: (803)438-1331
		20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
		1 1 1 1
		Signed: Kolyn Burkey Date: 12/27/2006
<u> </u>		Authorized Representative



1. WELL OW	NER INFORMA	TION:			6. PERMIT NU	MBER:	877				
Name:	Palmetto Er	ivironment last)		C. (first)					0.000		3 3
Address:	P. O. Box 4	27			7. USE:			100000000000000000000000000000000000000		10 th	
					□Resider	ntial	☐ Public S	uppi y	✓ Process	3	
City:	Elgin S	State:	SC	Zip:29045	☐ Irrigation	n	☐ Air Cond	litioning	□Emerge	епсу	
					☐ Test We	eli	□Monitori	ng Well	Replace	ement	
Telephone: \	Nork:	<u> </u>	Home:		8. WELL DEP	TH (completed))	Date Started:		9/28	/2006
2. LOCATIO	N OF WELL:	AS-20	\$4 di								
Name:	Handy Pant	ry #65/Clo	ud's Chevro	n/Site	4	5	ft.	Date Complet		12/15	/2006
Street Add	ress:	2367 Taylo	r St./1600 T	wo Notch	9. Mud Ro	tary	□Jetted		✓ Bored		100 00
					□Dug		☐Air Rota	ry	□Driven		
City:	Columbia, S	C	Zip:		☐Cable T		□Other				
COUNTY:	Richland				10. CASING:	☐Threaded	Welded				
Latitude:	34°00.77 L	ongitude:	81°00.97		Diam.:		<u> 1" </u>	Height: Above	e/Below		
3. SYSTEM I	NAME: S	SYSTEM NUI	MBER:		Type:	☑ PVC	☐ Galvanized	Surface			
						☐ Steel	☐ Other	Weight		-	
4. CUTTING	SAMPLES:	☐ Yes	☑ No		0	in. to 45	feet depth	Drive Shoe?	☐ Yes	☑ N	lo
						in. to	feet depth				
Geophysic	al Logs:	☐ Yes	☑ No		11. SCREEN	38617-0000 10 10				100 P 200 V	
	2 (E)		'Thickness of	Depth to		PVC		Diam.:	4"		_
For	mation Descript	ion	Stratum	Bottom of	Slot/Gauge		A 45	Length:	20'		-
			URACE ADMINISTRACIÓ	Stratum	Set Betwee	n: <u> 1 </u>	ft. and 10 ft. and	. ft. . ft.			
Red/t	orown clayey	sand	27'	27'	Sieve Analy	rsis	***********	(please enclo	se)		√ No
8 10 40 40					12. STATIC W	ATER LEVEL			2002 10000000	- Victoria	4.51100-05-05-05-0
Yellow to	gray clayey s	and (wet)	18'	45'	13. PUMPING	TEVEL Below	Tand Curlons	ft. below land	surgace after 24	hours	
							hrs. Pumping		G.P.M.		i i
					Pumping T			(please enclos	A STANDARD BOTTOLES	E	Z No
	-51 10 20	100 W 10	×		Yield:			33.			-
33333					14. WATER Q						
					Chemical A	Analysis ⊔ :lose lab result:	Yes 🔽 No	Bacterial A	∖nalysi⊡ Yes	No	
9			7		15. ARTIFICIA			✓ Yes	□ No		
	· · · · · · · · · · · · · · · · · · ·	*				om`	44	ft. to	45	ft.	1
					Effective si			Uniformity Co	efficient		
					16. WELL GR		✓ Yes and Cement 🏻	□ No	Othor		
	···				Depth: Fro		ind Cerneil ()	ft. to	40	ft.	
							POSSIBLE CON				lirection
	200				1	Ту	pe well disinfect				
					18. PUMP:	Date Installed:	unpon compl	etion 🕢 No	Not installed		
					Mfr. Name:			Model No.:	IAOL IIISIAIIEO	لكت	
		***				Volts	Length of drop		ft. Capacity		gpm
					A SE CONTRACTO DE LA CONTRACTORIO DEL CONTRACTORIO DE LA CONTRACTORIO DEL CONTRACTORIO DE LA CONTRACTORIO DEL CONTRACTORIO DE LA CONTRACTORIO DEL CONTRACTORIO DEL CONTRACTORIO DEL CONTRACTORIO DEL CONTRACTORIO DEL CONTRACTORIO DE LA CONTRACTORIO DEL CONTRACTORIO	Submersible	□Jet (sha		□Turbine		_
					19. WELL DRI	Jet (deep)	☐Recipro		☐Centrifu 934		-
						2485 Watson	Robyn Barkley	CERT. NO.:	934	•	
						Elgin, SC 290	45				
*Indicate Wa	iter Bearing Zon	es (Use			1	3 2 15					
a 2	nd sheet if need										
5. REMARKS	S:				Telephone		(803)438-1331		,		
									nis well was drilled	under m	iy
					unection and ti	ns report is tru	e to the best of r	ny knowledge a	and Delief.		
					1 4	1 -	. 1				
					Signed Wal	n. Ru	Man -	Date:	12/27/2006		
					Signed: ////	d Representative	and a	Date	IZIZIIZUUU	 	
						,					



1. WELL OWNER INFORMATION:					6. PERMIT NU	MBER:	877					
Name:	(last) (first)					<u> </u>			20 17/100 -			
Address:	P. O. Box	427			7. USE:				- R		- 10	Water Constitution
					☐ Resider	ntial	☐ Public St	upply	¥	Process	•	
City:	Elgin	State:	SC :	Zip:29045	☐ Irrigation	n	☐ Air Cond	litioning	E	⊒Emerge≀	ncy	
1200	(SE)			40	☐ Test We	ell	☐ Monitorir	ng Well		□Replace		
Telephone: V	Nork:		Home:		8. WELL DEP	TH (completed	0	Date Started:			9/2	28/2006
	N OF WELL:	AS-21			7							
Name:	Handy Par	ntry #65/Clo	ud's Chevror	n/Site	4	5	_ft.	Date Complete	ed:		12/1	5/2006
Street Add			or St./1600 T		9. Mud Ro		□Jetted		V	Bored		1300
6		₹			□Dug		☐Air Rota	ry	Ľ	□Driven		
City:	Columbia,	SC	Zip:		□Cable T		□Other				-	
	Richland		1550		10. CASING:	☐Threaded	Welded					
Latitude:	34°00.77	Longitude:	81°00.97		Diam.:		1"	Height: Above	:/Below			
3. SYSTEM N		SYSTEM NU				☑ PVC	☐ Galvanized	Surface				
	<u> </u>					☐ Steel	Other	Weight				
4. CUTTING	SAMPLES:	☐ Yes	✓ No		10	in. to 45	feet depth	Drive Shoe?		Yes	V	No
			######################################			in. to	feet depth		<u> </u>			
Geophysic	al Logs:	☐ Yes	☑ No		11. SCREEN		30 TO 200	2004-01-00 (F-200) (D		9348-26		59 8 95
		2 24/10 5 100 Me	*Thickness of	Depth to		PVC		Diam.:	4"			
For	mation Descri	ption	Stratum	Bottom of	Slot/Gauge		ft and 40	Length:ft.	20'		-	
			WATER STREET, STATE OF	Stratum	Set Betwee	^{111.} —1—	ft. and 10 ft. and	_ N. N.				
Red/b	orown claye	y sand	27'	27'	Sieve Analy		☐ Yes	(please enclos	se)		10111111111111111111111111111111111111	☑ No
	10/2002				12. STATIC W							N. S. L. V.
Yellow to gray clayey sand (wet) 18' 45'					13. PUMPING	TEVEL BUT	Land Curfors	ft. below land	surgace	after 24 h	nours	
							Land Surface hrs. Pumping		G.P.I	VI.		
			 		Pumping T			(please enclos		:d20)		☑ No
New St. March Conference on	400.0000 - 40.000000000 - 6.000				Yield:	20 20 20 20 20 20 20 20 20 20 20 20 20 2	_				uses y	
	278.60 20		A Company of the Comp		14. WATER Q		I V	B				7
					Chemical /	Analysis □ close lab result]Yes ☑ No is	Bacterial A	u iaiysi) Yes	No	u u
		i		1000	15. ARTIFICIA			✓ Yes		No		
					Installed fro	om		ft. to	45		ft.	
					Effective si	ize		Uniformity Co	efficient			
			[IV. WELL GR	ement Se	✓ Yes and Cement □		Other			
			 	- 3 - 1	Depth: Fro	om	10	ft. to		40		
		.				SOURCE OF	POSSIBLE CON	NOITANIMATION		ft.		direction
* 		in the	1 1			T)	ype well disinfect			and.		
		-			18. PUMP:	Date Installed	unpon compl	letion 🗹 No			1	
hoopeanitates -	201		ļ İ		Mfr. Name		100 100 100 100 100 100 100 100 100 100	Model No.:	,401		لک	
					H.P	Volts	Length of drop	pipe		apacity		gpn
					20 4.15 (7.14)	Submersible	☐Jet (shal			☐Turbine		- Andrewski
		1			19. WELL DR	Jet (deep)	☐Reciprod Robyn Barkley		1	□Centrifu 934		-
						2485 Watson Elgin, SC 290				-		
*Indicate Wa	ater Bearing Zo	ones (Use			1							
	nd sheet if nee		<u></u>]							
5. REMARKS	S:		3. 10.2.10		Telephone		(803)438-1331					
							ACTOR'S CERTIL ue to the best of n				under	my
					1	1 h	11					
		<u> </u>			Signed: Authoriz	zed Representative	whley	_ Date:	12/	27/2006		
												



4 14007 - 6111	100 IN-65-				la ===========		0.7				
1. WELL OWNER INFORMATION: Name: Palmetto Environmental Group, Inc.					6. PERMIT NU	IMBER:	877	Ā			
Name:		(last)		C. (first)						74. ES	
Address:	P. O. Box	427			7. USE:						
					□Reside	ntial	☐ Public 8	Supply	Process	•	
City:	Elgin	State:	SC	Zip:29045	☐ Irrigatio	n	☐ Air Con	ditioning	☐ Emerge	псу	
(=)	850			**	☐ Test W	ell	☐Monitor	ing Well	□Replace		
Telephone: V			Home:		8. WELL DEP	TH (complet	ed)	Date Started:		9/2	8/2006
	OF WELL:				9 9	_				40.00	-
Name:			ud's Chevro	n/Site		5	ft.	Date Complet		12/1	5/2006
Street Add	ress:	2367 Taylo	r St./1600 T	wo Notch	9. Mud Ro	otary	☐Jetted		Bored		
					□Dug		□Air Rota	ary	□Driven		
City:	Columbia,	SC	Zip:		☐Cable 1		Other				
	Richland				10. CASING:	☐ Threade	d Welded				
The State of the S		Longitude:			Diam.:		1"	Height: Above			
3. SYSTEM N	IAME:	SYSTEM NUI	VIBER:		Туре:	PVC	☐ Galvanized	The second secon			
			[2]		4 .	☐ Steel	Other	Weight	10.0	- 	
4. CUTTING	SAMPLES:	☐ Yes	☑ No		0			Drive Shoe?	☐ Yes	V	NO
0	all an-	п	(7)		44 500	in. to	feet depth				
Geophysic	aı Logs:	☐ Yes	☑ No	Depth to	11. SCREEN Type:	PVC		Diam.:	4 "		2
For	mation Descri	ption	Thickness of	Bottom of	Slot/Gauge		0	Length:	4" 20'		_
65 arija:		F	Stratum	Stratum	Set Betwee		ft. and 10	ft.			
D - 40			6		1		ft. and	ft.	704.00 X		
Red/t	prown claye	y sand	27'	27'	Sieve Anal		☐ Ye	s (please enclo	se)		✓ No
Yellow to	gray clayey	sand (wet)	18'	45'	IZ SIAIIC W	IAIEN LEVI		ft. below land	surgace after 24 l	nours	
Yellow to gray clayey sand (wet) 18' 45'							ow Land Surface			-, ,	
×	* * * * * * * * * * * * * * * * * * * *						hrs. Pumping		G.P.M.		- N-
e e					Pumping T Yield:	est:	☐ Ye	s (please enclo	se)		₩ No
	313/349			-	14. WATER Q						2 2 1021
						Analysis close lab res		Bacterial A	nalysi□ Yes	No.	l
6			÷r;		15. ARTIFICIA	L FILTER (filter pack)	✓ Yes	□ No		
							44	ft. to	45	ft.	
					Effective s			Uniformity Co	efficient	2 8	
()			-		16. WELL GR	OUTED?	✓ Yes Sand Cement □	Concrete C	Other		i
					Depth: Fro	om	10	ft. to	40	ft.	
					17. NEAREST	SOURCE	F POSSIBLE CO	NTAMINATION	: ft.		direction
							Type well disinfec	ted☐ Yes T	уре:		
					18. PUMP:	Date Install	unpon comp	eletion 🔽 No	Not installed		
81					Mfr. Name			Model No.:	, tot inotaned	الكلا	4
***********		· · · · · · · · · · · · · · · · · · ·			H.P	Volts	Length of drop		ft. Capacity		gpm
				-		Submersible			☐Turbine		
					19. WELL DR	Jet (deep)	Recipro	y CERT. NO.:	☐Centrifu 934		
			0. 1000000	*		2485 Watso	on	,	301		
					-	Elgin, SC 2	9045				
	ter Bearing Zo	10									
5. REMARKS	nd sheet if nee	ucu)	L		Telephone	No :	(803)438-1331	Ü			0
o. Kenpukk	••						RACTOR'S CERT		is well was drilled	under r	ny
-					and the state of t		true to the best of				
					2	1					
					Starrage Man	1. 1	Rabo.	C Date:	12/27/2006		9
pi					Signed: ///	zed Representat	ve swickery	Date:	IZIZIIZUUO	<u> </u>	
	- 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				1	7				- 12	



1.	WELL OW	NER INFOR	MATION:			6. PERMIT NU	JMBER:	877				
Name: Palmetto Environmental Group, Inc. (last) (first)												
	Address:	P. O. Box				7. USE:		and the state				
			erceve — Gr			□Reside	ntial	☐ Public S	upply	✓ Process		
	City:	Elgin	State:	SC	Zip:29045	□Irrigatio		☐ Air Cond	ACCOUNT ACCOUNT	□Emerge		
			5 165		_,,	☐ Test W		☐ Monitorii	ng Well	□Replace	ment	
T	elephone: \	Nork:		Home:		8. WELL DEP	TH (completed		Date Started:		9/2	8/2006
		OF WELL:	AS-23				to est					
2000	Name:	Handy Pa	ntry #65/Clo				15	_ ft.	Date Complet		12/1	5/2006
	Street Add	ress:	2367 Taylo	or St./1600 T	wo Notch	9. Mud Ro	otary	□Jetted		☑ Bored	or consider a factor	
			A750			□Dug		☐Air Rota	ry	□Driven		8
1000	City:	Columbia	SC	Zip:		☐Cable 1		Other				
		Richland		<u> </u>		10. CASING:	☐ Threaded	Welded				
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ 		Longitude:			Diam.:		1"	Height: Above			
3.	SYSTEM I	NAME:	SYSTEM NU	MBER:	22 M	Туре:	☑ PVC	☐ Galvanized	1985 Company (1985)			
6						700	□ Steel	Other	Weight		·	
4.	CUTTING	SAMPLES:	☐ Yes	V No		0	in. to <u>45</u>		Drive Shoe?	☐ Yes		No
							in. to	feet depth	<u> </u>		- /////	
	Geophysic	al Logs:	☐ Yes	☑ No	Don't to	11. SCREEN	DVC		Diam :	4 "		
	For	mation Descr	ription	*Thickness of	Depth to Bottom of	Type: Slot/Gauge	PVC : .020		Diam.: Length:	20'		
	, 0,		-Paoi	Stratum	Stratum	Set Between		ft. and 10	ft.		esin e	
					esense			ft. and	ft.	sides N et		
_	Red/t	prown claye	ey sand	27'	27'	Sieve Anal	ysis /ATER LEVEL	☐ Yes	(please enclos	se)	- 184	No No
,	fellow to	gray clave	sand (wet)	18'	45'	12. STATIC W	MIER LEVEL		ft. below land	surgace after 24 h	tours	
Т						Paradespara and parade in the commen	LEVEL Below					
L								hrs. Pumping	(-)	G.P.M.		- u
						Pumping 1 Yield:	Test:	☐ Yes	(please enclos	se)		No No
-						14. WATER C	UALITY	A 20 - 20 - 20 - 20 - 20 - 20 - 20 - 20				
						Chemical .	Analysis	Yes 🕢 No	Bacterial A	inalysi⊟ Yes	No.	1
							close lab result		✓ Yes	□ No		
-			· · · · · · · · · · · · · · · · · · ·		-		om Om		ft. to	45	ft.	
						Effective s	ize		Uniformity Co		1986 286 E	
Г				N 2002-0000 000	3 10	16. WELL GR		✓ Yes	□ No	Other		
\vdash	41-41 959					✓ Neat C Depth: Fr		and Cement 10	Concrete ☐ ft. to	Other	ft.	
								POSSIBLE CO				direction
Γ								ype well disinfect	ed Yes T	Гуре:		as 1000 5000
L						40 51115	Date List # 1	unpon comp	letion 🔽 No	Amount:	T A	
1000				1		18. PUMP: Mfr. Name	Date Installed	•	Model No.:	Not installed	¥	
						H.P.	Volts	Length of drop		ft. Capacity	2	gpm
						Type: 🗆	Submersible	☐Jet (sha	liow)	□Turbine		— n /1√565
							Jet (deep)	☐Recipro		☐Centrifu		
-	a to a					19. WELL DR Address:	2485 Watson		CERI. NU.:	934	E.	
L					7130 4 3 S S S S S S S S S S S S S S S S S S	4	Elgin, SC 290	045				
		iter Bearing Z ind sheet if ne		75,570	and the constitution of th							
5	REMARK	S:				Telephone		(803)438-1331		de conflicte de de la conflicte de la conflict		
100000								ACTOR'S CERTI ue to the best of r		nis well was drilled and belief.	under	my
						n	1 m	11				
						Signed: 10	byn B	arklen	Date:	12/27/2006		
						The second secon	zed Representative					
-						· · · · · · · · · · · · · · · · · · ·						



1. WELL OWNER INFORMATION:						6. PERMIT NU	MBER:	877					
Name: Palmetto Environmental Group, Inc.													
		VIV I	(last)		(first)	60							
	Address:	P. O. Box	(a)	*		7. USE:		38	100 Maria (1986 1986 1986 1986 1986 1986 1986 1986			on49%	
						□Resider	ntial	☐ Public St			Process		
88	City:	Elgin	State:	SC 2	Zip:29045	☐ Irrigation		☐ Air Cond	ACCOUNT OF THE PARTY OF THE PAR		☐ Emerger	201 2003	
	4647	N207	20			☐ Test We	ell	☐ Monitorir	ng Weil		Replace	- Start Continent Continent	
	elephone: V			Home:	terminal according to the second	8. WELL DEP	TH (completed	0	Date Started:			9/2	8/2006
		N OF WELL:	AS-24			70.000	The state of the s					2000	
NOW.			ntry #65/Clou	ud's Chevror		-	1 5		Date Comple			12/1	5/2006
	Street Addr	(1 10)		or St./1600 Tv		9. Mud Ro	ntary	□Jetted	m5315(20-4015) 100.		✓ Bored		viv.
ļ,			() · · · · · · · · · · · · · · · · · · ·			□Dug		☐Air Rotar	гу	ı	□Driven		
	UNITED STATE (Columbia,	SC	Zip:		☐Cable T		Other					
	COUNTY:	Richland				10. CASING:	Threaded						
			Longitude:	81°00.97		Diam.:			Height: Above	e/Below	ř		
3	SYSTEM N	THE PROPERTY AND PARTY.	SYSTEM NUM	and the second state of th	3		☑ PVC	☐ Galvanized	Surface				
							☐ Steel	Other	Weight			•	
4	CUTTING	SAMPLES:	☐ Yes	☑ No] 0	in. to <u>45</u>		Drive Shoe?		Yes		No
			us-off Android				in. to	feet depth			\$16.00 to 200 to		
	Geophysic	al Logs:	☐ Yes	☑ No		11. SCREEN				10-111 T		74(40)	
			25.	Thickness of	Depth to	Type:	PVC		Diam.:	4"			-10-0
	For	rmation Descri	iption	Thickness of Stratum	Bottom of	Slot/Gauge			Length:	20'			
L					Stratum	Set Betwee	en:1	ft. and 10 ft. and	_ ft. ft.				-
	Red/h	brown claye	y sand	27'	27'	Sieve Analy	vsis		_π. s (please enclo	ise)			No No
						12. STATIC W	VATER LEVEL	•					
1	Yellow to	gray clayey	sand (wet)	18'	45'				ft. below land	1 surgaci	e after 24 i	nours	
	make vittes Stati Se		ALBERT PROPERTY.	-				v Land Surface		C.D.	NA.		
-		***************************************				Pumping T		_ hrs. Pumping □ Yes	(please enclo	_ G.P. ose)	.iVł.		☑ No
				1		Yield:			- Wicase elitil				41 140
T						14. WATER Q		- Aller Control of the Control of th					
L						Chemical /	Analysis	Yes 🕢 No	Bacterial A	Analysi[_] Yes	No	1
						Please en	close lab result AL FILTER (filte	ts	✓ Yes	-	l No		
-				\vdash		Installation for	rom	ter pack) 44	ft. to	45	, 140	ft.	
						Effective s		7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Uniformity Co		t		
Г						16. WELL GR	OUTED?	✓ Yes	☐ No				
H				<u> </u>				and Cement []	Concrete ft. to	Other.	40	P	
				1	1	Depth: Fro	'SOURCE OF	10 POSSIBLE CON		V:	40 ft.		direction
				†***		TRES!		ype well disinfect	ted□ Yes *	Type:	п		
L		Section of the Assessment Control of the Ass						unpon compl		to Ame	ount:		
	92	175				18. PUMP:	Date Installed		W	No	t installed	¥	
H		-		 		Mfr. Name H.P.	volts	Length of drop	Model No.: _	8 0	apacity	VIII. 4.5	gpm
8			l l	ţ l	1		Submersible	_ Length of drop □Jet (shal			apacity □Turbine		abiti
_					-	1 -	Jet (deep)	□Reciproc	cating		☐ Centrifu	igal	
L	-					19. WELL DR	ILLER:	Robyn Barkley			934		
	votat till Vil					Address:	2485 Watson						
-	Indicat- 141	yter Poor	mee "	 		1	Elgin, SC 290	510					1
		ater Bearing Zo		1	1	1							1
F	. REMARKS		Juouj		····	Telephone	No.:	(803)438-1331					
٥	: APPARILLES .					20. WATER W	VELL CONTRA	ACTOR'S CERTI		his well v	was drilled	under	my
								ue to the best of n					
							(Amil)						
e.						1 An	0 1	11					
						Signed:	1m /3	arklez	_ Date:	12	/27/2006		
L	6 AU			-		Authori	ized Representative						
-												100000000000000000000000000000000000000	



1. WELL OWNER INFORMATION:	6. PERMIT NUMBER: 877
Name: Palmetto Environmental Group, Inc. (last) (first)	
Address: P. O. Box 427	7. USE:
	☐ Residential ☐ Public Supply ☐ Process
City: Elgin State: SC Zip:29045	☐ Irrigation ☐ Air Conditioning ☐ Emergency
	☐ Test Well ☐ Monitoring Well ☐ Replacement
Telephone: Work: Home: 2. LOCATION OF WELL: AS-25	8. WELL DEPTH (completed) Date Started: 9/28/2006
	ft. Date Completed: 12/15/2006
	9.
Sheet Address. 2307 Taylor St.71000 Two Notch	□Dug □Air Rotary □Driven
City: Columbia, SC Zip:	□Cable Tool □Other
COUNTY: Richland	10. CASING: □Threaded ☑Welded
Latitude: 34°00.77 Longitude: 81°00.97	Diam.: Height: Above/Below
3. SYSTEM NAME: SYSTEM NUMBER:	Type: PVC Galvanized Surface
3. 3131 EM NAME: SISIEM NUMBER.	Steel Other Weight
4. CUTTING SAMPLES: Yes No	O in. to 45 feet depth Drive Shoe? ☐ Yes ☑ No
4. 901 INCOMM ELO. E. 103 E. 110	in. to feet depth
Geophysical Logs: ☐ Yes ☑ No	11. SCREEN
Denth to	Type: PVC Diam.: 4"
Formation Description Thickness of Stratum Bottom of	Slot/Gauge: .020 Length: 20'
Stratum Stratum	Set Between: 1 ft. and 10 ft.
Red/brown clayey sand 27' 27'	ft. and ft. Sieve Analysis
Troubletini dayey dana Zi Zi	12. STATIC WATER LEVEL
Yellow to gray clayey sand (wet) 18' 45'	ft. below land surgace after 24 hours
	13. PUMPING LEVEL Below Land Surface ft. after hrs. Pumping G.P.M.
	ft. after hrs. Pumping G.P.M. Pumping Test:
	Yield:
	14. WATER QUALITY
	Chemical Analysis ☐ Yes ☑ No Bacterial Analysi☐ Yes No☑ Please enclose lab results
	15. ARTIFICIAL FILTER (filter pack) ✓ Yes ☐ No
	Installed from 44 ft. to 45 ft. Effective size Uniformity Coefficient
	Effective size Uniformity Coefficient 16. WELL GROUTED? ✓ Yes □ No
	▼ Neat Cement □ Sand Cement □ Concrete □ Other
	Depth: From 10 ft. to 40 ft.
	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
	Type well disinfected Yes Type: unpon completion No Amount:
	18. PUMP: Date Installed: Not installed ✓
	Mfr. Name: Model No.:
	H.P. Volts Length of drop pipe ft. Capacity gpm Type: Submersible Jet (shallow)
	☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
	19. WELL DRILLER: Robyn Barkley CERT. NO.: 934
	Address: 2485 Watson Elgin, SC 29045
*Indicate Water Bearing Zones (Use	
a 2nd sheet if needed)	
5. REMARKS:	Telephone No.: (803)438-1331 20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my
	direction and this report is true to the best of my knowledge and belief.
	p b b
	Signed: Mary 1344 Blen Date: 12/27/2006
	Authorized Representative



1. WELL OWNER INFORMATION:					6. PERMIT NU	MBER:	877				
Name:	Palmetto Er	nvironment ^(last)		C. (first)	4	3 Server - Children	100 mg		4		
Address:	P. O. Box 4	27			7. USE:						
					☐Resider	ntial	☐ Public S	ирріу	✓ Process	3	
City:	Elgin (State:	SC	Zip:29045	☐Irrigatio	n	☐ Air Cond	litioning	□Emerge		(4)
					☐ Test W		☐Monitoria	ng Well	☐ Replace		
Telephone: V			Home:		8. WELL DEP	TH (completed)	Date Started:		9/28/200	6
	OF WELL:									461451666	
	Handy Pant					5	_ft.	Date Complete		12/15/200	6
Street Add	ress:	236/ Taylo	or St./1600 T	wo Notch	9.	tary	□Jetted		Bored		
	O-1	20			□ □ Dug □ Cable T		☐Air Rotar	ry	□Driven		
N 13 5 1	Columbia, S Richland	SC	Zip:		10. CASING:			,			-
			04900 07			□ Inreaged	₩Welded	Lieleht: Abere	/Polour		
	34°00.77 I			•••	Diam.:	- Anyo		Height: Above			
3. SYSTEM N	IAME:	SYSTEM NU	MBEK:		Type:	☑ PVC ☐ Steel	☐ Galvanized ☐ Other	Surface Weight			
4. CUTTING	SAMDI ES-	☐ Yes	✓ No		1 0	25 (20 C) 20 C)		Drive Shoe?		- ☑ No	
4. 00 i i ilia	SAIN LES.	LJ 168	140			in. to	feet depth	Dilve Silver	ш 163		
Geophysica	al I oue.	☐ Yes	☑ No		11. SCREEN	111.10	icet depui	4			2000
Осоријова	Logo.			Depth to		PVC		Diam.:	4"		3
For	mation Descript	tion	Thickness of Stratum	Bottom of	Slot/Gauge		\$ 80 B	Length:	20'		
			Stratum	Stratum	Set Betwee	on:1	ft. and	ft.			
Red/b	rown clayey	sand	27'	27'	Sieve Analy	eia,	ft. and	_ it. (please enclos	se)	☑ N	No
					12. STATIC W	ATER LEVEL	——————————————————————————————————————				
Yellow to	gray clayey s	sand (wet)	18'	45'	13. PUMPING	TEVEL BALA	Land Confess	ft. below land	surgace after 24	hours	_
6							_ hrs. Pumping		G.P.M.		139
3					Pumping T			(please enclos			Vo
	20				Yield:						
					14. WATER Q		IVaa 🖼 Na	Dominial A	nahmil'i Van	No.	
	and second 1					Analysis 🔲 close lab result	Yes 🔽 No	Bacterial A	nalysi∐ Yes	No <mark>√</mark>	
8	00.000				15. ARTIFICIA	L FILTER (filte	er pack)	✓ Yes	□ No		
	8:10°	300 - 20 1 200 - 3				om	44	ft. to	45	ft.	
					Effective s		✓ Yes	Uniformity Co	emcient		-
		9					and Cement		Other		_
					Depth: Fro	om	10	ft. to	40	ft.	
					17. NEAREST		POSSIBLE CON pe well disinfect			direction	on
						'	pe well distrilecti unpon compl		ype. Amount:		ä
					18. PUMP:	Date installed	THE RESERVE THE PARTY OF THE PA		Not installed	Z	\neg
					Mfr. Name		I amoth of door	Model No.:	A Compain		
6						Volts Submersible	Length of drop ☐Jet (sha		_ ft. Capacity ☐Turbine	gp	m
						Jet (deep)	☐Reciprod	00000000000000000000000000000000000000	□ Centrifu		i
					19. WELL DR	ILLER:	Robyn Barkley	CERT. NO.:	934		
emin was vin 1990 18085 B		BOOK BOX ST			Address:	2485 Watson Elgin, SC 290	145				
Indicate Wa	ter Bearing Zon	nes (Use		····	1		·				
	nd sheet if need										
5. REMARKS):				Telephone		(803)438-1331				
					A CONTRACTOR OF THE PROPERTY O				is well was drilled	under my	4 8
					uirection and t	ins report is tru	e to the best of n	ny knowledge a	and Uchel.		
					n	1 .	20 20 <u>4</u> 2 2044				
					Signed:	Gun B	arblen/	Date:	12/27/2006	i	
						red Representative	1			 	
			 		4		·/				_



	T			077	******			
Name: Palmetto Environmental Group, Inc. (lest) (first)	ľ	6. PERMIT NU	MBER:	877				
(last) (first) Address: P. O. Box 427	ļ.,	7. USE:	***************************************					
Address: P. O. Box 427	ľ	7. USE: □Residen	tial	☐ Public Su	vique	☑ Process	i	
City: Elgin State: SC Zip:29	145	☐ Irrigation		☐ Air Condi		☐ Emerger		
City: Elgin State: SC Zip:290	U-10	☐ Test We		☐ Monitorin		☐ Replace	3.7	Ε.
Telephone: Work: Home:			TH (completed)		Date Started:		9/28/2	2006
2. LOCATION OF WELL: AS-27	$\neg \neg$,	ā: '				
Name: Handy Pantry #65/Cloud's Chevron/Site	İ	4	5	ft.	Date Complete	ed:	12/15/2	2006
Street Address: 2367 Taylor St./1600 Two N	\$ 50 E	9.		□Jetted		✓ Bored		
		□Dug		☐Air Rotar	ry	□Driven		
City: Columbia, SC Zip:	1	□Cable T		□Other				
COUNTY: Richland	Į.	10. CASING:	☐Threaded	✓Welded				
Latitude: 34°00.77 Longitude: 81°00.97		Diam.:	And the second second	1"	Height: Above			
3. SYSTEM NAME: SYSTEM NUMBER:		Type:	☑ PVC		Surface			
			☐ Steel	Other	Weight			
4. CUTTING SAMPLES: Yes V No		0	in. to <u>45</u>		Drive Shoe?	☐ Yes	☑ No)
The second secon	1		in. to	feet depth				
Geophysical Logs: ☐ Yes ☑ No		11. SCREEN	DI **	h 375	D'-	A11		
I Thickness of	oth to		PVC	<u> </u>	Diam.: Length:	<u>4"</u> 20'		_
Stratum Description	om of	Slot/Gauge: Set Between		ft. and 10	Length: ft.			_
				ft. and	ft.			
Red/brown clayey sand 27' 2	7'	Sieve Analy		☐ Yes	(please enclos	se)	V	/ No
Yellow to gray clayey sand (wet) 18' 4	5'	12. STATIC W	AIER LEVEL		ft, helmu lend	surgace after 24 h	JOILL6	
. Show to gray diayey sallu (Wet/) 18 4		13. PUMPING	LEVEL Below		" " neina isud	year and 24		•
			ft. after	hrs. Pumping		G.P.M.		
		Pumping To			(please enclos	se)		No.
		Yield:	IIAI ITV					
		14. WATER QI Chemical A		Yes 🔽 No	Bacterial A	nalysi□ Yes	No.	
		Please end	close lab results	8				
		15. ARTIFICIA	L FILTER (filte	er pack)	Y Yes	□ No	ft.	
	Ì	Installed fro	om ize	44	ft. to Uniformity Cod	45 efficient	H.	
	 ,	16. WELL GRO	OUTED?	✓ Yes	☐ No			
		✓ Neat Ce	ement 🛘 Sa	and Cement	Concrete	Other		
	1	Depth: Fro		10 POSSIBLE CON	ft. to	40 I: ft.		rection
		NEAREST		POSSIBLE CON ppe well disinfecte			. <u> </u>	. UUUN
				unpon comple		Amount:		
			Date Installed:			Not installed	¥	
	—	Mfr. Name: H.P.	: Volts	Length of drop	Model No.:	ft. Capacity	NG-2000-	gpm
			Submersible	_ Length of drop □Jet (shal		☐Turbine		ahiii
			Jet (deep)	□Reciproc	cating	□Centrifu	ıgal	
		19. WELL DRI	ILLER:	Robyn Barkley	CERT. NO.:	934	•	
			2485 Watson Elgin, SC 290					
*Indicate Water Bearing Zones (Use	-	ļ	الاع صل بسو	w. (20)				
a 2nd sheet if needed)		ļ						
5. REMARKS:		Telephone		(803)438-1331				
		20. WATER W	VELL CONTRA			nis well was drilled	under my	У
	ŀ	girection and t	nıs report is tru	ue to the best of n	ny knowledge t	aria dellef.		100
	l		1	y ow				1
		Sinney 1. 1	2. 12.	1.6/-	Date:	12/27/2006	V	
	1	Signed: Authoriz	zer Representative	men	_ Date:	1212112000		
			· Productive					



1. WELL OW	NER INFORMA	ATION:			6. PERMIT N	JMBER:	877	_			0
Name:		nvironment (last)	al Group, Ind	C. (first)	and the second second section of the section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the second section of the sectio	nerve en en el Commission de la commission de la commission de la commission de la commission de la commission	punic Structure		JP.		
Address:	P. O. Box 4	27			7. USE:						-88
					□Reside	ntial	□ Public S	upply	✓ Process	ŀ	
City:	Elgin :	State:	sc	Zip:29045	☐ Irrigatio	n	☐ Air Cond	litioning	☐ Emerge	ncy	
2.90					☐ Test W	'eli	☐ Monitorii	ng Well	☐ Replace	ment	
Telephone: V	Nork:	2: 515	Home:		8. WELL DEP	TH (completed	i)	Date Started:		9/28	3/2006
2. LOCATION	OF WELL:	AS-28									
Name:	Handy Pant	try #65/Clo	ud's Chevro	n/Site		15	_ ft.	Date Complete		12/15	5/2006
Street Addi	ress:	2367 Taylo	r St./1600 T	wo Notch	9.	otary	□Jetted		✓ Bored		
e.					□Dug		☐Air Rota	ry	□Driven		
City:	Columbia, S	SC	Zip:		☐Cable 1	Fool	☐Other	20 00			
COUNTY:	Richland				10. CASING:	☐Threaded	✓Welded				W 10 100 10
Latitude:	34°00.77	Longitude:	81°00.97		Diam.:		1"	Height: Above	/Below		
3. SYSTEM N		SYSTEM NU			Type:	☑ PVC	☐ Galvanized	Surface			
					.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	☐ Steel	☐ Other	Weight		_	
4. CUTTING	SAMPLES:	☐ Yes	✓ No		1 0			Drive Shoe?	☐ Yes	Ø	No
						in. to	feet depth			_	
Geophysic	al Loos:	☐ Yes	☑ No		11. SCREEN		1001.000	<u> </u>			
СССРПУСК	a. Lugu.			Depth to	Type:	PVC		Diam.:	4"		
For	mation Descript	tion	Thickness of	Bottom of	Slot/Gauge	: .020		Length:	20'		
			Stratum	Stratum	Set Betwee	en: <u>1</u>	ft. and 10	_ft.	750-002559 - 007	.01: 38.83 (5	
Ded/h	orown clayey	cand	27'	27'	Sinus Anal		ft. and	_ft.	.a\	r	Cal No
1,60/1	NOWIT Clayey	Saliu	21		Sieve Anal	ysis /ATFR I FVFI	LI Tes	(please enclos	ie)		√ No
Yellow to	gray clayey s	sand (wet)	18'	45'	I CIAIIO	AILK LLVL	•	ft. below land	surgace after 24 h	tours	
							v Land Surface	18			
							_ hrs. Pumping			,	
9					Pumping T Yield:	est:	☐ Yes	(please enclos	ie)	,	No No
<u> </u>	************	******			14. WATER C	UALITY					
		FORBS WAS IN FORMS	Ti No es y		Chemical		Yes 🔽 No	Bacterial A	nalysi□ Yes	No.	
8					15. ARTIFICIA	close lab resul	er nack)	✓ Yes	□ No		
						om		ft. to	45	ft.	
8					Effective s			Uniformity Co	efficient		
() () ()		W			16. WELL GR			□ No			
							and Cement		Other40		
					Depth: Fr	om SOURCE OF	POSSIBLE CO	ft. to			direction
					TO NACIONALO		ype well disinfect			— `	un cougn
							unpon compl				
90. 400.0 V.M.20 100.0 1					18, PUMP:	Date Installed	:	14-4-14	Not installed	V	
					Mfr. Name H.P.	: Volts	Length of drop	Model No.:	ft. Capacity		Com
8						Submersible	_ Length of drop □Jet (sha		_ n. Capacity Turbine		_ gpm
				* * * * * * * * * * * * * * * * * * * *		Jet (deep)	□Recipro	cating	☐ Centrifu		
					19. WELL DR		Robyn Barkley	CERT. NO.:	934		
					Address:	2485 Watson Elgin, SC 29					
*Indicate \Ma	ter Bearing Zon	nes (Use			1	_igni, 00 20	<i></i>				
	nd sheet if need										
5. REMARKS					Telephone	No.:	(803)438-1331		The second secon		
	coef				20. WATER V	VELL CONTRA	ACTOR'S CERTI		s well was drilled	under n	ny
					direction and t	this report is tr	ue to the best of r	ny knowledge a	ınd belief.		
Č					100	1 h	- 11				
É					Signed: My	yn Be	apley	Date:	12/27/2006		
		Secret .			Author	ed Representative					



1. WE	LL OW	NER INFORM	MATION:			6. PERMIT NU	MBER:	877				
Nai	me:	Palmetto I	Environmenta (last)		C. (first)							
Add	dress:	P. O. Box	427			7. USE:		- 544 545 54 - 54		DE PRODUCTOR DE LA COMPANSIONE DEL COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE D		1
						□Resider	ntial	☐ Public St	u pply	Process		8
City	r.	Elgin	State:	sc :	Zip:29045	☐ Irrigation	n	☐ Air Cond	litioning	☐ Emerge		
		N=0			min.	☐ Test We	ell	□Monitorir	ng Well	☐ Replace		1
	hone: V			Home:		8. WELL DEP	TH (completed))	Date Started:		9/2	8/2006
2. LO	CATIO	N OF WELL:		ESS (1899)		Ant					20.00	
Na	me:	Handy Pa	ntry #65/Clo				5	_ft	Date Complete		12/1	5/2006
Str	eet Add	ress:	2367 Taylo	or St./1600 T	wo Notch	9. Mud Ro	itary	□Jetted		Bored		
						□Dug	26 /102	☐Air Rota	ry	□Driven		33
City		Columbia,	SC	Zip:		☐Cable T	- Warner - W	□Other	T			
		Richland		0		10. CASING:		Welded				
-			Longitude:			Diam.:		<u>1"</u>	Height: Above			
3. SY	STEM I	NAME:	SYSTEM NU	MBER:		Type:	PVC			 		
]	☐ Steel	Other	Weight			
4. CU	TTING	SAMPLES:	☐ Yes	✓ No		0	in. to <u>45</u>		Drive Shoe?	☐ Yes	\checkmark	No
		11 A C					in. to	feet depth	<u> </u>			AND - 44 (F / SEE) - 15
Ge	ophysic	al Logs:	☐ Yes	☑ No	Depth to	11. SCREEN	PVC		Diam.:	4"		
	For	rmation Descr	iption	*Thickness of	Bottom of	Type: Slot/Gauge			Length:	20'		_
			1	Stratum	Stratum	Set Betwee		ft. and 10	ft.		-	
10	D-10			67	07	99,000000 1 2 1000000000000000000000000000		ft. and	_ft. 			
	Ked/l	orown claye	y sand	27'	27'	Sieve Analy	ysis Ated i ever	☐ Yes	(please enclos	se)		✓ No
Yell	ow to	gray clave	sand (wet)	18'	45'	IZ. SIAHO W	AIER LEVEL		ft. below land	surgace after 24	hours	
		<u> </u>				13. PUMPING				Access of the Control		
				<u> </u>				hrs. Pumping		G.P.M.		
8			62.0	n - 19 - 19 - 19 - 19 - 19 - 19 - 19 - 1		Pumping T Yield:	est:	☐ Yes	(please enclos	se)		✓ No
				 		14. WATER Q	UALITY					
	— Videologija na rijet		100000000000000000000000000000000000000			Chemical /	Analysis 🔲	Yes 📝 No	Bacterial A	nalysi□ Yes	No	3
						Please end	close lab result	S pools	T# V		- 10 202 0	
							L FILTER (filter om	er pack) 44	Yes ft. to	☐ No 45	ft.	
						Effective s		At 28 08382 At	Uniformity Cod			
						16. WELL GR	OUTED?	✓ Yes	□ No			
								and Cement 🗆	Concrete ft. to	Other) ft.	
8				-	1	Depth: Fro		POSSIBLE CON			J n.	direction
	i — communica					1		pe well disinfect	ed□ Yes T	уре:		
								unpon compl	letion 🗸 No	Amount:		
						18. PUMP:	Date Installed:	:	Model No.:	Not installed	\checkmark	
						Mfr. Name H.P.	: Volts	Length of drop		ft. Capacity		gpm
	<u> </u>	<u> </u>					Submersible	☐Jet (sha	llow)			SP
		1,					Jet (deep)	□Recipro		☐ Centrife		
						19. WELL DR	ILLER: 2485 Watson	Robyn Barkley	CERT. NO.:	93	4	
				1		Address:	Elgin, SC 290	145				
India	cate Wa	ater Bearing Z	ones (Use	f		1	J ,					
		nd sheet if ne										
5. RE	MARK	S:				Telephone	No.:	(803)438-1331	EIO 4 PRO 6			
										is well was drilled	under	my
l.						unection and t	uns report is tru	e to the best of r	ny knowieage £	and Sellet.		
						₩	1					
						Signed: Roll	a Pro	Alene	Date:	12/27/2006	3	
							zyd Representative	-prof		1212112000		
20 20 20												



1.	WELL OW	NER INFORM	TATION:			6. PERMIT NU	IMBER:	877					
	Name:		Environment	tal Group, Inc	C.		m an 2000 1990 2000.						1
			(last)		(first)								
	Address:	P. O. Box	427			7. USE:			7	_	D		
8	200	E200 19	227	222		Resider	20000000	☐ Public St	(1)(-1)(-1)(-1)(-1)	7	Process	uma-r	
	City:	Elgin	State:	SC :	Zip:29045	☐ Irrigation		☐ Air Cond	PATRICIA DE PORTO DE SENTE		Emergen	10000	5
						☐ Test We		☐ Monitorir			Replacer		0/0000
_	elephone: V			Home:		8. WELL DEP	TH (completed	1)	Date Started:			9/2	8/2006
		N OF WELL:			. (5.1	12	\ -		2 2 2			404	E ISSS
	Name:	3.70		ud's Chevror			4 <u>5</u>	_ ft.	Date Complet		Decr.	12/1	5/2006
	Street Add	ress:	2367 Taylo	or St./1600 T	wo Notch	9. Mud Ro	otary	☐Jetted		(A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Bored		
	0"	O-1 · ·	66	731		□ Dug	'ocl	☐Air Rotai	u y	٤	Driven		
	City:	Columbia,	, ၁ ೮	Zip:		Cable T		☐Other	T		ICON ST.	365	
8 .		Richland	in them as	04000		10. CASING:	⊔ inreaded		U-! • ·	VP-1			
_			Longitude:			Diam.:		<u>1"</u>	Height: Above				
3.	SYSTEM N	NAME:	SYSTEM NU	MBER:		Туре:	PVC		Surface				
		0477-					□ Steel	Other	Weight				N-
4.	CUTTING	SAMPLES:	☐ Yes	✓ No		0			Drive Shoe?		res	Ø	No
				-		44	in. to	feet depth	<u></u>	The second second second			
_	Geophysic	al Logs:	☐ Yes	T	Dorth 1	11. SCREEN	PVC		Diam.:	⊿ "			
	For	rmation Descri	iption	*Thickness of	Depth to Bottom of	Type: Slot/Gauge	PVC .020		Diam.: Length:	20'			
	- FOI			Stratum	Stratum	Set Betwee		ft. and10	ft.				
Γ	<u> </u>		72.2					ft. and	_ft.				
_	Red/t	brown claye	y sand	27'	27'	Sieve Analy			(please enclo	se)	10.72 15.00		☑ No
v	(ellow to	grav clave	y sand (wet)	18'	45'	12. STATIC W	VATER LEVEL		ft. below land	surne~	after 24 h	Oline	
+	OJ WUILL	gray Gaye)	Janu (Wet)	10	40	13. PUMPING	LEVEL Below	v Land Surface	NeiOM ISUO	Jungatt E	64 N	-u10	
							ft. after	hrs. Pumping		G.P.M.			Elightrans
						Pumping T			s (please enclo	se)			☑ No
_						Yield:	HALIFO						
				b	1	14. WATER Q Chemical		Yes 🔽 No	Bacterial A	\nalvsil ⁻	Yes	No	7
-	 			†	<u> </u>	Please end	close lab result	ts		1 - 4 (27:30)			<u></u>
L						15. ARTIFICIA	AL FILTER (filte	ter pack)	✓ Yes				
			man establishment in			Installed fr		44	ft. to Uniformity Co	45 nefficient		ft.	
				 		Effective s	OUTED?	✓ Yes	☐ No				
					<u></u>	✓ Neat Co	ement Se	and Cement	Concrete	Other			
						Depth: Fro	om	10	ft. to	2002 T N 100	40		
		<u> </u>				17. NEAREST		POSSIBLE CON			ft.		direction
				1			T	ype well disinfect unpon compl			int:		
						18. PUMP:	Date Installed				nstalled	V	
						Mfr. Name	ə:		Model No.:	W 1		_	
						H.P.	Voits	Length of drop		ft. Cap	5. S.		gpm
-	1.00						Submersible Jet (deep)	☐Jet (sha ☐Recipro]Turbine]Centrifug	lar	
					1	19. WELL DR	ILLER:	Robyn Barkley		بالم	934		
Г							2485 Watson						
Ļ						4	Elgin, SC 290	U 4 5					
1		ater Bearing Z		1 7	1	1							
Ļ		and sheet if ne	eded)	<u></u>	L	Telest	No :	(800)490 4001	1				
ð.	. REMARKS	o :				Telephone 20. WATER W		(803)438-1331 ACTOR'S CERTI		ris well we	is drilled	under	mv
								ue to the best of r					.oif # l
							(f)						
						An .	1 1	1 0					
						Signed: Var	un Ba	rpen	_ Date:	12/2	7/2006		
					<u>-220 </u>		ized Representative		entit t			91.00	
_													



1. WELL OW	NER INFORM	ATION:	277		6. PERMIT NU	JMBER:		877	1.05044	W. S. W.			1
Name:		nvironment (last)	al Group, In	C. (first)					<u> </u>		40 <u>00 U</u> 1888000		
Address:	P. O. Box 4				7. USE:					***			
8					□Reside	ntial		☐ Public S	upply	6	Process		
City:	Elgin	State:	SC	Zip:29045	□Irrigatio	n		☐ Air Cond	litioning	1	□ Emerge	ncy	
5					☐ Test W	elt		☐ Monitoria	ng Well		Replace	ment	
Telephone: V	Vork:		Home:		8. WELL DEP	TH (comple	eted)		Date Started	: :	Art 100	9/2	8/2006
2. LOCATION	OF WELL:	AS-31				1000 CO. 104 To. 104 CO. 104 E-104 CO.							
Name:	Handy Pan	try #65/Clo	ud's Chevro	n/Site	4	15	ft.		Date Comple	eted:		12/1	5/2006
Street Add		7	or St./1600 T		9.	otary		□Jetted			Bored		
					□Dug			☐Air Rota	гу		□Driven		
City:	Columbia,	SC	Zip:		☐Cable 1	Fool		□Other					
	Richland		*300 €300		10. CASING:	☐Thread	ed 🗹	Velded					
Latitude:	34°00.77	Longitude:	81°00.97		Diam.:	**************************************	1"		Height: Abov	re/Below			
3. SYSTEM N		SYSTEM NU		7	Type:	☑ PVC		Salvanized	Surface				
					1,750.	☐ Steel		Other	Weight	20			3
4. CUTTING	SAMPLES:	☐ Yes	☑ No		1 0				Drive Shoe?		Yes		No
						in. to		feet depth					
Geophysic	al Long.	☐ Yes	☑ No		11. SCREEN	11. 00		icct acpai	L				
Соортуско	a. Logo.		Control of the contro	Depth to	Type:	PVC			Diam.:	4"			9
For	mation Descrip	otion	Thickness of	Bottom of	Slot/Gauge	: .02	20		Length:	20'			
			Stratum	Stratum	Set Betwee	en: <u>1</u>	ft. a		ft.				- A
Ped/h	roum claves	cond	27'	27'	Ciarra Amar		ft.a		_ft. _/=lance_and	\			CB No
Neur	prown clayey	Sanu	21		Sieve Anal	ysis /ΔTFR I FV	/FI		(please encl	ose)			No No
Yellow to	gray clayey	sand (wet)	18'	45'	I CIANO				ft. below lan	d surgaci	e after 24 h	nours	
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13. PUMPING					other mode			
						ft. after _	hrs.	Pumping		G.P.	M.		
					Pumping 1 Yield:	est:		☐ Yes	(please encl	ose)			₩ No
*************			<u> </u>		14. WATER O	UALITY							
				36 W	Chemical		☐ Yes	✓ No	Bacterial	Analysi 🗌	Yes	No	3
						close lab re		.,c,					
					15. ARTIFICIA			(E)	✓ Yes		No	ft.	
					Effective s	om ize	44		ft. to Uniformity C	45 cefficient		IL.	
					16. WELL GR		V	Yes	☐ No	3011101011			
					☑ Neat C	ement 🛚	Sand C	ement 🗆	Concrete	Other .			,
		7 P. D. O.			Depth: Fro	om		10	ft. to		40		
					17. NEAREST	SOURCE			NTAMINATIO ed⊟ Yes		ft.		direction
								npon compl		io Am	ount:		
					18. PUMP:	Date Insta		, -:- :-::E	e de la companie de			V	
				-	Mfr. Name				Model No.:				
					H.P	Volts Submersib		gth of drop			apacity □Turbine		gpm
						Jet (deep)	ne	☐Jet (sha			∐ i urbine ∐Centrifu	gal	
		(3)		- An - F	19. WELL DR		Ro		CERT. NO.:	************	934		
	2311				Address:	2485 Wats Elgin, SC	son	u un persona Arresta con esperante de Carteria de Arresta de Persona de Carteria de Carteria de Carteria de Ca					
	ter Bearing Zo]	100ge - 2005							
THE RESERVE OF THE PARTY OF THE	nd sheet if nee	ded)					3932 500						
5. REMARKS	3:				Telephone			3)438-1331	FIGATION: "	Tala P	الدالية مسا	·md-	
					20. WATER Water direction and t							unaer	ıny
					n	1	h	9 1					
					Signed: Authorit	zed Representa	13%	ley	Date:	12/	27/2006		
					1	7					8 8		



1. WELL OWNER INFORMATION:	6. PERMIT NUMBER: 877
Name: Palmetto Environmental Group, Inc. (last) (first)	
Address: P. O. Box 427	7. USE:
	☐ Residential ☐ Public Supply ☑ Process
City: Elgin State: SC Zip:2904	☐ Irrigation ☐ Air Conditioning ☐ Emergency
5	☐Test Well ☐Monitoring Well ☐Replacement
Telephone: Work: Home:	8. WELL DEPTH (completed) Date Started: 9/28/2006
2. LOCATION OF WELL: AS-32	
Name: Handy Pantry #65/Cloud's Chevron/Site	ft. Date Completed: 12/15/2006
Street Address: 2367 Taylor St./1600 Two Not	
5000 - 1 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	□Dug □Air Rotary □Driven
City: Columbia, SC Zip:	□Cable Tool □Other
COUNTY: Richland	10. CASING: ☐ Threaded ☑ Welded
Latitude: 34°00.77 Longitude: 81°00.97	Diam.: 1" Height: Above/Below
3. SYSTEM NAME: SYSTEM NUMBER:	Type: ☑ PVC ☐ Galvanized Surface
	☐ Steel ☐ Other Weight
4. CUTTING SAMPLES:	0 in. to45 feet depth Drive Shoe?
	in. to feet depth
Geophysical Logs: Yes V No	11. SCREEN Type: PVC Diam.: 4"
Formation Description Thickness of Bottom	
Stratum Stratu	
Dad/harry alayer and 071 071	ft. andft.
Red/brown clayey sand 27' 27'	Sieve Analysis
Yellow to gray clayey sand (wet) 18' 45'	ft. below land surgace after 24 hours
	13. PUMPING LEVEL Below Land Surface
	ft. after hrs. Pumping G.P.M.
	Pumping Test: Yes (please enclose) No Yield:
	14. WATER QUALITY
	Chemical Analysis ☐ Yes ☑ No Bacterial Analysi☐ Yes No☑
	Please enclose lab results 15. ARTIFICIAL FILTER (filter pack) ✓ Yes □ No
	Installed from 44 ft. to 45 ft.
	Effective size Uniformity Coefficient
	16. WELL GROUTED?
	Depth: From 10 ft. to 40 ft.
	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: fi. direction
	Type well disinfected ☐ Yes Type:
	unpon completion No Amount: 18. PUMP: Date Installed: Not installed
	Mfr. Name: Model No.:
	H.P. Volts Length of drop pipe ft. Capacity gpm
	Type: Submersible Set (shallow) Secretification
	☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal 19. WELL DRILLER: Robyn Barkley CERT. NO.: 934
	Address: 2485 Watson
	Elgin, SC 29045
Indicate Water Bearing Zones (Use	
a 2nd sheet if needed) 5. REMARKS:	Telephone No.: (803)438-1331
o. Neikhillo:	20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my
	direction and this report is true to the best of my knowledge and belief.
	N MI
	Signed: 12/27/2006 Date: 12/27/2006
	Authorized Representative



WELL OWNER INFORMATION: Name: Palmetto Environmental Group, Inc.					6. PERMIT NU	JMBER:	877				
Name:		nvironment (last)		C. (first)			50 4000				
Address:	P. O. Box 4	27		A	7. USE:						
					Reside	ntial	☐ Public S	upply	Process		-
City:	Elgin	State:	SC	Zip:29045	☐Irrigatio	n	☐ Air Cond	litioning	□ Emerge	ncy	
)-2-9 					☐Test W	eli	☐ Monitorii	ng Well	□Replace	ment	
Telephone: V	Nork:		Home:		8. WELL DEP	TH (completed	D	Date Started:		9/2	8/2006
2. LOCATION	N OF WELL:	AS-33									
Name:	Handy Pan	try #65/Clo	ud's Chevro	n/Site		15	_ ft.	Date Complete		12/1	5/2006
Street Add	ress:	2367 Taylo	or St./1600 T	wo Notch	9. Mud Ro	otary	□Jetted		☑ Bored	sa 10.20	
					□Dug		☐Air Rota	ry	□Driven		
City:	Columbia,	SC	Zip:		☐Cable 1		□Other				
COUNTY:	Richland				10. CASING:	☐Threaded	Welded	60 Ji 15			
Latitude:	34°00.77	Longitude:	81°00.97		Diam.:		1"	Height: Above/	Below		38
3. SYSTEM N	NAME:	SYSTEM NUI	MBER:		Type;	☑ PVC	☐ Galvanized	Surface			61
	2 1000000	n) 50				☐ Steel	☐ Other	Weight			1
4. CUTTING	SAMPLES:	☐ Yes	✓ No		0	in. to 45	feet depth	Drive Shoe?	☐ Yes	\checkmark	No
						in. to	feet depth		5 52 52		
Geophysic	al Logs:	☐ Yes	☑ No		11. SCREEN			2007		(3)	4
_			*Thickness of	Depth to	Type:	PVC		Diam.:	4"	110	- W
For	mation Descrip	otion	Stratum	Bottom of	Slot/Gauge		ft, and 10	Length:	20'		
				Stratum	Set Betwee	en: <u>1</u>	ft. and 10	ft. ft.			li li
Red/b	orown clayey	sand	27'	27'	Sieve Anal	ysis		(please enclose	e)		No No
					12. STATIC W	ATER LEVEL					
Yellow to	gray clayey	sand (wet)	18'	45'	43 60000000		Land Surface	ft. below land s	urgace after 24 i	iours	
							_ hrs. Pumping		G.P.M.		
					Pumping 1			(please enclose			No No
0003					Yield:						
4		341 - Fano 332 - 341 - 34	5		14. WATER O		=				74
					Chemical A	Analysis L close lab result	Yes ☑ No	Bacterial An	alysi□ Yes	No	1
					15. ARTIFICIA	AL FILTER (file	er pack)	✓ Yes	□ No		
	Night Date	12 22 1			Installed fr	om		ft. to	45	ft.	
					Effective s			Uniformity Coe	fficient		
					16. WELL GR		Yes and Cement	☐ No	Other		
					Depth: Fr		ت	ft. to	40	ft.	
			12 20 - 20 - 20 - 20 - 20 - 20 - 20 - 20	2004		SOURCE OF	POSSIBLE CON	TAMINATION:	ft.		direction
						Ty	ype well disinfect	ed□ Yes Ty			
					18. PUMP:	Date Installed	unpon compl	etion 🔽 No	Amount: Not installed	Z	
					Mfr. Name		•	Model No.:	Not albidied	C.L.	
					H.P	Volts	Length of drop	pipe	ft. Capacity		gpm
					A CONTRACTOR OF THE PROPERTY O	Submersible	☐Jet (sha		☐Turbine		
					19. WELL DR	Jet (deep)	☐Reciprod Robyn Barkley		☐Centrifu 934		
	-					2485 Watson	Nobyli Daikley	JENI. NO	334		
					10 a 2000 p. p. 10 10 20 20 20 20 20 20 20 20 20 20 20 20 20	Elgin, SC 290)45				
	iter Bearing Zor										
	nd sheet if need	ded)				/ 4 4	(888) (FE 185)				
5. REMARKS	5:				Telephone		(803)438-1331	EICATION: The	well wee delled	undo-	mv
							ACTOR'S CERTING to the to the best of r			urider	шу
i C					ancouon and t	roport to tit	LO TO THE OCOL OF I	, morriouge ai	wondi.		
c .					A 1	1 1.					
					Signed:	man Ba	hlon	Date:	12/27/2006		104900 1 SEC 40444 11
						zed Representative	and y	aiv	122112000		
				č							



1. WELL OW	NER INFORM				6. PERMIT NUM	1BER:	877				3
Name:		(last)	tal Group, Ind	C. (first)				<u> </u>		<u>10 - 11 - 140-201</u> 1	
Address:	P. O. Box	1990	,		7. USE:				greatours		
					☐ Residentia	al	☐ Public Su		✓ Process		
City:	Elgin	State:	SC :	Zip:29045	☐ Irrigation		☐ Air Condi		☐ Emerge		
***	MMTC1				☐Test Well		☐ Monitorin	ng Well	Replace		
Telephone: V	Nork:	e1	Home:	Thus agreements of plantings	8. WELL DEPTH	I (completed)		Date Started:		9/2	8/2006
	N OF WELL:			•	1	and the second section of the section of t					
Name:			ud's Chevror	n/Site	45	f	ft.	Date Complete		_12/1	5/2006
Street Add	(5)		or St./1600 T		9.		□Jetted		☑ Bored		
0 24	Calmakia	90	7:		□Dug	4	☐Air Rotar ☐Other	ıy	□Driven		
City:	Columbia, Richland	JU	Zip:		□Cable Too		UOther ✓ Welded				
		l acció	81 ⁰ 00 07		MACONING CONTRACTOR CO		0 00000 000 10	Height: Above	(Below		
Latitude: 3. SYSTEM N				No. 20	Diam.:		Manager and the second	March 1907			
ə. ə 181EM A	wante:	SYSTEM NU	HOEK:		St. (1995) 1997) 1997		☐ Galvanized ☐ Other	Surface Weight			
4. CUTTING	SAMDI ES-	☐ Yes	✓ No					Drive Shoe?		- Z	No
vui ling	JAMITLES:	∟ı Yes	No No			in. to <u>45</u> in. to	feet depth feet depth	Silve Silve?	⊔ 1€S	9	.10
Geophysic	al Logs:	☐ Yes	☑ No		11. SCREEN				4 77	XXXXXXX 5-	
		nti a -	Thickness of	Depth to		OCC OCC		Diam.:	4" 20'		
For	rmation Descri	ιρασπ	Stratum	Bottom of Stratum	Slot/Gauge: Set Between:	.020		Length:	<u> 4</u> V		-
					- Set Between:		ft. and	ft.			
Red/b	prown claye	y sand	27'	27'	Sieve Analysi	is		(please enclos	se)		☑ No
Yellow to	grav clave	sand (wet)	18'	45'	12. STATIC WAT	IER LEVEL		ft. below land	surgace after 24	hours	
	3 J Jidyoy	(1131)			13. PUMPING L		and Surface		10 - 10 10 10 10 10 10 10 10 10 10 10 10 10		
						t. after h		/-	G.P.M.		أبي
	VIII (250 - 250 N)				Pumping Tes Yield:	st:	☐ Yes	(please enclos	se)		☑ No
					14. WATER QUA	ALITY					
	<u> </u>		2000 E		Chemical An	nalysis 🔲 Y		Bacterial Ar	ınalysi□ Yes	No	7
					Please enclo	ose lab results	= 8				
140					15. ARTIFICIAL		pack) 44	Yes ft. to	□ No 45	ft.	İ
<u> </u>				1	Effective size	е	**	Uniformity Coe			
					16. WELL GROU	UTED?	✓ Yes	☐ No			
							d Cement	Concrete ft. to	Other	D ft.	
		1		1	Depth: From					t.	direction
							e well disinfecte	ed Yes Ty	ype:		Journ
	% AMA						unpon comple		Amount:		
)			- cm - 13 - 1 - 123 - 224		18. PUMP: D Mfr. Name:	Date Installed:		Model No.:	Not installed	Z	
			 			oltsL	Length of drop		ft. Capacity		gpm
					Type: ☐ Su	ubmersible	☐Jet (shall	llow)			
42%						et (deep)	☐Reciproc		☐ Centrift		
			 		19. WELL DRILL Address: 24		Robyn Barkley	JER1. NO.:	934	-1	ì
3						Elgin, SC 29045	5				l
	ater Bearing Zo					and the second s					ŀ
N	nd sheet if nee	eded)			Talant.	lo:	(803)430 4004				į
5. REMARKS	J.				Telephone N 20. WATER WE		(803)438-1331 CTOR'S CERTIF	-ICATION- The	is well was drilled	i under	my
					direction and this						
						1					Ì
					10.1	1 1	61	Dat-	10/07/00-	2	l
					Signed: /// X	dRepresentative	serent.	Date:	12/27/2006	ā	
	 		<u> </u>		Authorize	A. Observed Herrang				100.000	



1.	1. WELL OWNER INFORMATION:					6. PERM	IIT NU	MBER:			877					ì
	Name:	Palmetto	Environmenta	al Group, Inc	C.											ľ
			(last)	•	(first)		0.000									
	Address:	P. O. Box	427			7. USE:										
							esiden	95/34/95/7			Public S	13-16L F)		Process		
	City:	Elgin	State:	SC	Zip:29045	□In	rigation	n			Air Cond			□ Emerge	2550	10
						□T ₁	est We	ell			Monitori			☐ Replace		
Te	elephone: V	Vork:		Home:		8. WELL	DEPT	TH (comp	pleted))		Date Starte	ed:		9/2	28/2006
2.	LOCATION	OF WELL:	AS-35		18000000											
	Name:	Handy Pa	intry #65/Clou	ud's Chevro	n/Site		4	5		ft.		Date Comp	pleted:		12/1	5/2006
	Street Add	ress:	2367 Taylo	r St./1600 T	wo Notch	9. 🗆 M	lud Ro	tary			Jetted			✓ Bored		
											Air Rota	ry		□Driven		
	City:	Columbia	, SC	Zip:			able T	School Com-			Other					
	COUNTY:	Richland				10. CAS	ING:	☐ Threa	aded	☑ We	lded					
	Latitude:	34°00.77	Longitude:	81°00.97		Diam				1"		Height: Ab	ove/Belov	N		1
3.	SYSTEM N	IAME:	SYSTEM NU	MBER:		Туре	:	☑ PVC		☐ Gal	vanized	Surface _				1
						18,054		☐ Steel	l	□ Oth	er	Weight _				
4.	CUTTING	SAMPLES:	☐ Yes	✓ No			0	in. to	45	fee	et depth	Drive Shoo	? 🛘	Yes	\checkmark	No
80750				(-1.1.) (1.4.)				in. to	1	fee	et depth			2000		
	Geophysic	al Logs:	☐ Yes	☑ No		11. SCR	REEN						P879.0.			
				*Thickness of	Depth to	Туре		PVC			_	Diam.:	4"			
	For	mation Desc	ription	Stratum	Bottom of		Gauge:		020			Length:	20	<u> </u>		
				Oddidiii	Stratum	Set E	Betwee	n:1	L	ft. and		_ ft. ft.				
	Red/h	orown clay	ev sand	27'	27'	Sieve	e Analy	eis.		, it. airu		(please en	close)			₩ No
۲	1100/2	JI OHIT CIQY	oy cana			12. STA	TIC W	ATER L	EVEL						****	
•	Yellow to	gray claye	y sand (wet)	18'	45'			W				ft. below la	ind surga	ce after 24	nours	
Г	- Strike	40		g - 92 2530 - 50 - 5		13. PUN							C	P.M.		
_						Dum	ping T	ft. after		_ ms. P	umping 	(please en	100 mm	141.		☑ No
						Yield		651.			L 100	(piodos s.				
r								UALITY						rent manes	70000	
L						Che	mical /	Analysis			✓ No	Bacteri	al Analys	☐ Yes	No	
			7.09			Plea	ISE ENC	close lab	result	er pack)	37 370 4	✓ Yes	2000 - 200 A] No		
H								om				ft. to	45		ft.	
						- 000 to 1000 to	ctive s					Uniformity	Coefficie	nt		
٢		4 4 7				16. WEI	LL GR	OUTED'	?	Z,	Yes	☐ No				
L		,,,							☐ Sa	and Cem	nent 🗆	Concrete [) ft. to	_ Othe	<u> </u>	ft.	
					8	17 NEA	th: Fro	SOLIGO	EOF	POSSII	BLE CO	NTAMINAT	ON:	— → C		direction
H			<u> </u>		-			200,10				ted□ Yes	Type:			
	0 0000000000000000000000000000000000000									unp	on comp		No A	nount:	-	
Γ					83 W W F 18	18. PUN		Date Ins	stalled	:		Model No.		lot installed	4	
H						Mfr. H.P.	Name	: Volts	-	Lengti	n of drop			Capacity		gpm
l								Submer	sible		Jet (sha			Turbine	, 	
t						1		Jet (dee			Recipro	cating		□Centrifu		
L						19. WE					n Barkle	CERT. NO).:	934	ŀ	
1	overall District	944(U) N				Add	ress:	2485 W Elgin, S								
H	Indiant 184	des De este :	7					шуIII, Э	~ Z3(V-10						
1		ater Bearing and sheet if n			1											
F	. REMARK		overe)	L	L	Tele	phone	No.:			138-1331					27722-42
ľ	· · ·					20. WA	TER W	VELL CO		ACTOR'	S CERT	FICATION:			unde	r my
l						direction	n and t	his repo	rt is tro	ue to the	best of	my knowled	ge and b	elief.		
1								1								
						l	M	1 /	h.	10						
						Signed:		But	Alle	Neg		_ Date:	1	<u>2/27/2008</u>	<u> </u>	
L						N 18	Authori	ze Repres	entative							



1. WELL OWNER INFORMATION:			6. PERMIT NU	IMBER:	877				
Name: Palmetto Environmenta (last)		(first)							
Address: P. O. Box 427	8		7. USE:		5,000		<u></u>	. 1000 - 50	
			Residen		☐ Public Su		Process		
City: Elgin State:	SC 2	Zip:29045	☐ Irrigation		☐ Air Cond		□Ernerger		
		1	☐ Test We		☐ Monitorin		□Replace	DOCO POPULATION AND AND ADDRESS OF THE PARTY	
	Home:		8. WELL DEPT	TH (completed))	Date Started:		9/2	8/2006
2. LOCATION OF WELL: AS-36		,,,,,,		_		white the same	50 % #		E IN#
Name: Handy Pantry #65/Clou				15		Date Complete		12/1	5/2006
Street Address: 2367 Taylo	or St./1600 Tv	wo Notch	9. Mud Ro	otary	☐Jetted	V	☑ Bored ☐Driven		
Ohn Calumbia CO	7im.		□Dug □Cable T	'ool	□Air Rotar □Other	עי	mouven.		
City: Columbia, SC COUNTY: Richland	Zip:	i	10. CASING:		✓Welded				**********
Latitude: 34°00.77 Longitude:	81000 07	i i		— meaued	30770-00	Height: Above/	/Below		
Latitude: 34°00.// Longitude: 3. SYSTEM NAME: SYSTEM NUM		· · · · · · · · · · · · · · · · · · ·	Diam.:	☑ PVC		A STANDARD CONTRACTOR	/Below		
C. C. G. I. STOTEM NUI	moer:	i	Type:	Steel □	Production Control	Surface		e e	
4. CUTTING SAMPLES:	✓ No	·	0			Drive Shoe?		_ Ø	No
Tes	140	i		in. to 45	feet depth	- Unios r	00		
Geophysical Logs: Yes	☑ No	i	11. SCREEN		wopui	*************************************			
		Depth to	Type:	PVC		Diam.:	4"	- 0 - 0 - 0	
Formation Description	Thickness of Stratum	Bottom of	Slot/Gauge:		8 == -	Length:	20'		
	-uusull	Stratum	Set Betwee	en: <u>1</u>	ft. and	. ft. ft.			
Red/brown clayey sand	27'	27'	Sieve Analy	rsis	☐ Yes	ιι. (please enclos	ie)		☑ No
			12. STATIC W	ATER LEVEL	C.		1 1 1 10 10		
Yellow to gray clayey sand (wet)	18'	45'	13. PHUBING	LEVEL Below		π. pelow land :	surgace after 24 h	nours	
	[]	1			hrs. Pumping				
			Pumping T			(please enclos			No No
	 	1	Yield:	UALITY					
		1	Chemical A	Analysis 🔲	Yes 🔽 No	Bacterial Ar	nalysi□ Yes	No	f
	()	1		close lab results		✓ Yes	□ No		
	 	1 	Installed fro	rom		ft. to	45	ft.	
		1 	Effective si	ize		Uniformity Coe			
		65 A A	16. WELL GR	OUTED?	✓ Yes and Cement 🗆	☐ No Concrete ☐ (Other		
	 		Depth: Fro	om	10	ft. to	40		
				SOURCE OF	POSSIBLE CON	NTAMINATION:	: ft.		direction
				Ty	ype well disinfecte				
		<u> </u>	18. PUMP:	Date Installed:	unpon comple	etion 🔽 No	Not installed	7	
	1	·	Mfr. Name:	i.		Model No.:	17702737207		
			H.P	Volts	Length of drop	pipe	ft. Capacity), ————————————————————————————————————	gpm
	 			Submersible Jet (deep)	☐Jet (shal ☐Reciprod	ACCORD 2017 (COMPAN)	☐Turbine ☐Centrifu		
			19. WELL DRI	ILLER:	Robyn Barkley		☐Centritu		
			Address:	2485 Watson Elgin, SC 290					
Indicate Water Bearing Zones (Use			1						
a 2nd sheet if needed) 5 REMARKS:			Telephone	No.	(803)438-1331				1
5. REMARKS:						FICATION: The	is well was drilled	under	my
			And the second of the second o		ue to the best of n				outer (170 € E
				0		1425			
			10	1 h	.11 -	2	184		
			Signed: //	rya Br	unen/	Date:	12/27/2006	<u> </u>	
			Authoria	zer Representative					



. WELL OWNER INFORMATION:					6. PERMIT NU	IMBER:	877				
Name:	Name: Palmetto Environmental Group, Inc. (last) (first)					5. of Noosestation to	SV SV		100000		
Address:	P. O. Box	427			7. USE:			\$ 5.0 PERS 1	9		
					Reside	ntial	☐ Public Se	upply	Process	•	
City:	Elgin	State:	SC .	Zip:29045	☐Irrigatio	n	☐ Air Cond	litioning	□ Emerge	ncy	
e se s e s					☐ Test W	eli	☐ Monitorir	ng Well	Replace	ement	
Telephone: \	Nork:		Home:		8. WELL DEP	TH (completed)	Date Started:		9/28/	2006
2. LOCATIO	N OF WELL:	AS-37	***								
Name:	Handy Par	itry #65/Clo	ud's Chevroi	n/Site	4	5	_ft.	Date Complete		12/15/	2006
Street Add	ress:	2367 Taylo	r St./1600 T	wo Notch	9. 🖾 Mud Ro	itary	□Jetted	0-000	☑ Bored		
					□Dug		☐Air Rota	ry	□Driven		
City:	Columbia,	SC	Zip:		☐Cable 1		□Other				
COUNTY:	Richland				10. CASING:	☐Threaded	Welded				(3
Latitude:	34°00.77	Longitude:	81°00.97		Diam.:		1"	Height: Above	/Below		
3. SYSTEM I	NAME:	SYSTEM NU	MBER:	10 May 11	Type:	☑ PVC	☐ Galvanized	Surface			10
Selection States						☐ Steel	☐ Other	Weight		-	10
4. CUTTING	SAMPLES:	☐ Yes	✓ No		0	in. to 45	feet depth	Drive Shoe?	☐ Yes	☑ No	0
						in. to	feet depth			0000	
Geophysic	al Logs:	☐ Yes	☑ No		11. SCREEN		d Saettee W			10701/1 MAY 18	
			*Thickness of	Depth to	Type:	PVC		Diam.:	4"		_
Foi	mation Descri	ption	Stratum	Bottom of	Slot/Gauge		A ==1 46	Length:	20'		-
				Stratum	Set Betwee	en: <u>1</u>	ft. and 10 ft. and	. ft. ft.			
Red/l	orown claye	v sand	27'	27'	Sieve Anal	vsis		(please enclos	se)		7) No
					12. STATIC W	ATER LEVEL					
Yellow to	gray clayey	sand (wet)	18'	45'	13. PUMPING		Lond Curton	ft. below land	surgace after 24	hours	
							hrs. Pumping	-	GPM		
					Pumping 1			(please enclos			Z No
					Yield:						
			V		14. WATER C			5		No.	
	- 			***	Chemical	Anaiysis ∟ close lab resulf	Yes 🔽 No	Bacterial A	ınalysi∐ Yes	No.	
					15. ARTIFICIA			✓ Yes	□ No		
S 1 53	al Talanta				Installed fr	om		ft. to	45	ft.	
					Effective s			Uniformity Co	efficient		
					16. WELL GR		Yes and Cement	Concrete C	Other		
					Depth: Fr		ina cement 🖸 10	ft. to	40	ft.	
<u> </u>		- Na 49 - 200 - A		es serentimen tentimen - m	17. NEAREST	SOURCE OF	POSSIBLE CO			di	irection
]	T;	ype well disinfect				
					18. PUMP:	Date Installed	unpon comp	etion V No	Not installed	V	
			1		Mfr. Name		·	Model No.:	1404 Informed	Œ	10 10%
					H.P.	Volts	Length of drop	pipe	ft. Capacity		gpm
127V N 983						Submersible	☐Jet (sha		☐Turbine		
					19. WELL DR	Jet (deep)	☐Reciprod Robyn Barkley		☐Centrifu 934		
1997 BAD				9.8		2485 Watson	. wayn bandy		. 55-		
						Elgin, SC 290	045				
	ater Bearing Zo										
	nd sheet if nee	eded)			1	2 0.2 0.201	(000) 400 400 4				
5. REMARK	S:				Telephone		(803)438-1331	EICATION: Th	is well was drilled	under m	v
1							ue to the best of r			anuel III	7
ł					an obtained			,			
1					h	1	1 -				
l					Signed:	lown Be	uklen	Date:	12/27/2008	}	
						zed Representative	-				
					•		,				1000



Street Address:	1. WELL OW	NER INFORMA	ATION:			6. PERMIT NU	JMBER:	877				
City: Eigin State: SC Zip:29045 City: Eigin State: SC Zip:29045 City: Columbic Supply # Plocess Columbic State Colu	Name:						10001600	econocidio				
Columbia Sc Zip.28046	Address:	P. O. Box 4	27			7. USE:						
Teel Welt						Reside	ntial	☐ Public S	upply	✓ Process)e	
Telephone: Work: Home: AS-38 Name: Handy Pantry #85/Cloud's Chevron/Site Street Address: 2387 Taylor St./1600 Two Notch Street Two Notch Street Two Notch Street Two Notch Street Two Notch Street Two Notch Street Notch	City:	Elgin :	State:	SC	Zip:29045	☐ Irrigatio	ın	☐ Air Cond	litioning	□ Emerge	ncy	
2. LOCATION OF WELL: AS-38 Name: Handy Pantry #85/Cloud's Chevron/Site A5	viaen					☐ Test W	ell	☐ Monitorii	ng Well	☐ Replace	ment	
Name: Harndy Pantry #85/Cloud's Chevron/Site 45	Telephone: V	Vork:	No. 10.100 July 10.10	Home:		8. WELL DEP	TH (completed	1)	Date Started:		9/28	/2006
Street Address: 2367 Taylor St./1600 Two Notch City: Columbia, SC Zip: COUNTY: Richland Lattlude: 34°00.77 3. SYSTEM NAME: SYSTEM NUMBER: Geophysical Logs: Yes	2. LOCATION	OF WELL:	AS-38									
City: Columbia, SC Zip:	Name:	Handy Pant	try #65/Clo	ud's Chevro	n/Site		15	_ ft.	Date Complete	d:	12/15	/2006
City: Columbia, SC Zp: COUNTY: Richland Lattude: 34*00.77 Longitude: 81*00.97 3. SYSTEM NAME: SYSTEM NUMBER: 4. CUTTING SAMPLES:	Street Add	ress:	2367 Taylo	r St./1600 T	wo Notch	9. Mud Ro	otary	□Jetted	X 00 X	✓ Bored		
COUNTY: Richland Lethude: 34°00.77 Longitude: 81°00.97 Similar 10. CASING: Threaded						□Dug		□Air Rota	ry	□Driven		
Diam.: 1" Height: Above/Bellow System NAME: SYSTEM NAME: SYSTEM NAME: SYSTEM NAME: SYSTEM NAME: SYSTEM NAME: SYSTEM NAME: SYSTEM NAME: System Type: Steal Other O in. to 45 feet depth Ditye Shoe? Yes No No In. to feet depth Ditye Shoe? Yes No No No No No No No N	City:	Columbia, S	SC	Zip:		☐Cable 1	l'ool	□ Other				
Type:	COUNTY:	Richland				10. CASING:	☐ Threaded	✓ Welded	300	1/2		
Type:	Latitude:	34°00.77	Longitude:	81°00.97		Diam.:		1"	Height: Above/	Below		
Steel Other Weight Drive Shoe? Yes No In. to 45 feet depth In. to 45 In. to 45 In. to 45 In. to In. to 45 In. to In.	Or Sales Inches Property and Company					Type:	PVC	☐ Galvanized	Surface			
A. CUTTING SAMPLES:	9					,	The state of the s		Market Service 10		_	
Secont Second S	4. CUTTING	SAMPLES:	☐ Yes	☑ No		1 0	in. to 45	feet depth	The second secon	☐ Yes	Z N	lo
Thickness of Stratum Stratum Stratum Stratum Type: PVC Diam: 4" Length: 20' Set Between: 1 ft. and 10 ft. length: 20' Set Between: 1 ft. and 10 ft. length: 20' Set Between: 1 ft. and 10 ft. length: 20' Set Between: 1 ft. and 10 ft. length: 20' Set Between: 1 ft. and 10 ft. length: 20' Set Between: 1 ft. and 10 ft. length: 20' Set Between: 1 ft. and 10 ft. length: 20' Set Between: 1 ft. and 10 ft. length: 20' Set Between: 1 ft. and 10 ft. length: 20' Set Between: 1 ft. and 10 ft. length: 20' Set Between: 1 ft. and 10 ft. length: 20' Set Between: 1 ft. and 10 ft. length: 20' Set Between: 1 ft. and 20 ft. length: 20' Set Between: 1 ft. and 20' length: 20' le									1256		AFFECT AND	
Trickness of Stratum Stream Stratum Stew Analysis 12. STATIC WATER LEVEL 1. the analysis 1. the stratum	Geophysica	al Logs:	☐ Yes	☑ No		11. SCREEN			<u> </u>			
Stratum Stra					Depth to		The second second second					
Red/brown clayey sand 27' 27' Sieve Analysis 1. t. and 1.0 1. t. a	Fon	mation Descript	tion						The second secon	20'		
Sieve Analysis Yes (please enclose) No No Yellow to gray clayey sand (wet) 18' 45' 12. STATIC WATER LEVEL ft. below land surgace after 24 hours 13. PUMPING LEVEL Below Land Surface ft. after hrs. Pumping G.P.M. Pumping Test: Yes (please enclose) No No Yelcit: Yes (please enclose) Yes No No Yelcit: Yes (please enclose) Yes No No Yelcit: Yes (please enclose) Yes No No Yes Yes No No Yes Yes No Yes No Yes				Oralam	Stratum	Set Betwee	en: <u>1</u>					
Yellow to gray clayey sand (wet) 18' 45' 13. PUMPING LEVEL Below Land Surface	Red/b	rown clavev	sand	27'	27'	Sieve Anal	veie			e)	ū	ZI No
Yellow to gray clayey sand (wet) 18' 13. PUMPING LEVEL Below Land Surface						12. STATIC W	ATER LEVEL	. LI 100	(pioase criaice)	<u> </u>		
f. afterhrs. PumpingG.P.M.	Yellow to	gray clayey s	sand (wet)	18'	45'				ft. below land s	urgace after 24 i	nours	27 47174
Pumping Test:			and sandranin							0014		5 25 39
Yield: 14. WATER QUALITY 14. WATER QUALITY 15. ARTIFICIAL FILTER (filter pack) 15. ARTIFICIAL FILTER (filter pack) 16. Vertical Analysis		····							/nlesses annies			a No
14. WATER QUALITY Chemical Analysis Yes No Bacterial Analysis Yes No Please enclose lab results				:			est.	[] les	(piease enclose	=)	Ŀ	₹7 I/O
Please enclose lab results 15. ARTIFICIAL FILTER (filter pack)			The second second				UALITY	10.000				
15. ARTIFICIAL FILTER (filter pack) 15. ARTIFICIAL FILTER (filter pack) 15. ARTIFICIAL FILTER (filter pack) 15. to 45 ft.	· 				40				Bacterial An	alysi⊟ Yes	No.	
Installed from 44 ft. to 45 ft. Effective size Uniformity Coefficient 16. WELL GROUTED?			*						FALV	N-	····	
Effective size			-								ft.	
16. WELL GROUTED?									Uniformity Coe		•••	
Depth: From 10 ft. to 40 ft.	ii 's							✓ Yes	☐ No			
17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction					N			and Cement	Concrete	Other		
Type well disinfected to unpon completion with amount: 18. PUMP: Date Installed: Mfr. Name: H.P. Volts Length of drop pipe ft. Capacity gpm Type: Submersible Jet (shallow) Turbine Jet (deep) Reciprocating Centrifugal 19. WELL DRILLER: Robyn Barkley CERT. NO.: 934 Address: 2485 Watson Elgin, SC 29045 Indicate Water Bearing Zones a 2nd sheet if needed) Telephone No.: (803)438-1331 20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: May Date: 12/27/2006								TO POSSIBLE COL	IL TO			irection
Unpon completion		***************************************				HEARES!					•	ııı Ç GQUI I
Mfr. Name: Model No.: H.P. Volts Length of drop pipe ft. Capacity gpm Type: Submersible Jet (shallow) Turbine Jet (deep) Reciprocating Centrifugal 19. WELL DRILLER: Robyn Barkley CERT. NO.: 934 Address: 2485 Watson Elgin, SC 29045 Indicate Water Bearing Zones (Use a 2nd sheet if needed) Telephone No.: (803)438-1331 20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: May May May Date: 12/27/2006			0-0000									
H.P. Volts Length of drop pipe ft. Capacity gpm Type: Submersible Jet (shallow) Turbine Jet (deep) Reciprocating Centrifugal 19. WELL DRILLER: Robyn Barkley CERT. NO.: 934 Address: 2485 Watson Elgin, SC 29045 Indicate Water Bearing Zones (Use a 2nd sheet if needed) Telephone No.: (803)438-1331 20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: Many Date: 12/27/2006		10 690					NET CONTRACTOR SERVICE BASIS PROPERTY.	:		Not installed	A	
Type: Submersible Jet (shallow) Turbine Jet (deep) Reciprocating Centrifugal 19. WELL DRILLER: Robyn Barkley CERT. No.: 934 Address: 2485 Watson Elgin, SC 29045 Indicate Water Bearing Zones (Use a 2nd sheet if needed) Telephone No.: (803)438-1331 20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: Many Date: 12/27/2006								l anoth of dee-		f Canacity		ana.
Jet (deep) Reciprocating Centrifugal 19. WELL DRILLER: Robyn Barkley CERT. NO.: 934 Address: 2485 Watson Elgin, SC 29045 Indicate Water Bearing Zones (Use a 2nd sheet if needed) Telephone No.: (803)438-1331 20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: May Bulley Date: 12/27/2006												_ abu
19. WELL DRILLER: Robyn Barkley CERT. NO.: 934 Address: 2485 Watson Elgin, SC 29045 *Indicate Water Bearing Zones (Use a 2nd sheet if needed) 5. REMARKS: Telephone No.: (803)438-1331 20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: May Bulley Date: 12/27/2006												
*Indicate Water Bearing Zones (Use a 2nd sheet if needed) 5. REMARKS: Telephone No.: (803)438-1331 20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: Signed: Bulley Date: 12/27/2006						19. WELL DR	ILLER:	Robyn Barkley				
*Indicate Water Bearing Zones (Use a 2nd sheet if needed) 5. REMARKS: Telephone No.: (803)438-1331 20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: Signed: Date: 12/27/2006		nu 40000ne is 30	ap3 929/09/27 07			Address:						
a 2nd sheet if needed) 5. REMARKS: Telephone No.: (803)438-1331 20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: Signed: Date: 12/27/2006	Indicate Wa	ter Bearing Zon	nes (Use			1	8 4 8 %					
20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: Signed: Sulley Date: 12/27/2006					The state of	-0231 NO 80						
direction and this report is true to the best of my knowledge and belief. Signed: Bulley Date: 12/27/2006	5. REMARKS	3 :										
Signed: Noly Bulley Date: 12/27/2006											under m	ly
						no seen Vii	1					
						1	1 M	40				
Authorized/Representative							Myn D		Date:	12/27/2006		
	L					Authori	zed Representative			77 29		



1. WELL OW	NER INFORM				6. PERMIT NU	IMBER:	877				
Name:		Environmenta (last)		C. (first)							8
Address:	P. O. Box				7. USE:	10 20000 20		95% TX 5 TX			
					Resider		☐ Public St		Proce		
City:	Elgin	State:	sc :	Zip:29045	☐ Irrigation		☐ Air Cond		□Emer	1.00	
				<u>1</u>	☐ Test We		☐ Monitorir		□Repla	acement	
Telephone: V			Home:		8. WELL DEP	TH (completed))	Date Started:		9/.	28/2006
	N OF WELL:					1 ₂₄			a.i.		(FIA
1100A 11 (NICONO PEROPE)		ntry #65/Clou				45	_ ft.	Date Complete			15/2006
Street Add	ress:	2367 Taylo	or St./1600 To	wo Notch	9.	otary	☐Jetted		☑ Bored		
2000		00			□ Dug	*10100 *	☐Air Rotar	ry	□Drive	71 I	
City:	Columbia,	SC	Zip:		☐Cable T	No. of the last of	☐Other				
CASSESSED IN SEC.	Richland	121	0.40		10. CASING:		Welded	United at	Dela		
Latitude:		Longitude:			Diam.:		<u>1" </u>	Height: Above/			
3. SYSTEM N	NAME:	SYSTEM NUM	MBER:		Type:	☑ PVC	☐ Galvanized	Surface			
					4	☐ Steel	□ Other	Weight	2	— _—	RI-
4. CUTTING	SAMPLES:	☐ Yes	☑ No		<u> </u>			Drive Shoe?	☐ Yes	Z	No
	52.402 (SSS)	<u>—</u> .	- man			in. to	feet depth	L			
Geophysic	al Logs:	☐ Yes	☑ No	Der#	11. SCREEN	DVC		Diem ·	4"		
E	rmation Descri	otion	*Thickness of	Depth to Bottom of	Type: Slot/Gauge	PVC : .020		Diam.; Length:	20'		
			Stratum	Stratum	Set Betwee		ft. and 10	_ft.			
, <u> </u>	1						ft. and	_ft.			_
Red/k	brown claye	y sand	27'	27'	Sieve Analy			(please enclos	se)		✓ No
Yellow to	grav clave	sand (wet)	18'	45'	IL STATIC W	VATER LEVEL		ft. below land s	surgace after 2	!4 hours	
. UNUTY IO	g. wy olayey	(AAGI)		-10		LEVEL Below	Land Surface				
						ft. after	_ hrs. Pumping				
	17/09				Pumping T Yield:			s (please enclos	3e)	-	₩ No
	et i assert Alice	-	 		14. WATER Q						-
					Chemical / Please end	Analysis close lab result] Yes		10.00	s No	∠
and the second of the second o	Species v				15. ARTIFICIA	AL FILTER (filte	er pack)	✓ Yes	□ No	300	
		3		1	Installed fr	rom		ft. to	45 efficient	_ ft.	
					Effective s	size ROUTED?	✓ Yes	Uniformity Coe	emolent		
	2		<u> </u>		Neat Co	ement Sa	and Cement	Concrete	Other	سيب	5,430,0
	- 10				Depth: Fro	om	10) ft. to		40 ft.	
			<u> </u>		17. NEAREST	SOURCE OF	POSSIBLE CON			ft	direction
			ļ <u> </u>	1			ype well disinfect unpon compl				
-			 		18. PUMP:	Date Installed			Not installe	ed 📝	
			l		Mfr. Name	o:		Model No.:		-	
					H.P.	Volts_	Length of drop		ft. Capacity ☐Turbi		gpm
				<u> </u>		Submersible Jet (deep)	☐Jet (sha		□ Turbi □ Cent		
		1			19. WELL DR	ULLER:	Robyn Barkley			934	
u. N						2485 Watson Elgin, SC 290					
Indicate Wa	ater Bearing Zo	ones (Use	 	· · · · · ·	-	g, JU &81	venstari				
	and sheet if nee						2000-000-00				
5. REMARKS	s:				Telephone		(803)438-1331		la sec-Pl	local .	
							ACTOR'S CERTIL ue to the best of r			ued unde	ır my
						1	and the state of t				
					1 h	1. h	60				
					Signed: 200	My Ba	unley	_ Date:	12/27/20	106	
<u> </u>					Authori	ized Representative					



1.1	WELL OW	NER INFORM	ATION:			6. PERMIT NU	MBER:	877				
	Name:	Palmetto E		al Group, In	C. (first)			20 S a 2000 Arbert	- 1210 Br o 1980	W SNEED	50.5	
1	Address:	P. O. Box 4	300-0-300		•	7. USE:					2.000	
						Resider	ntial	☐ Public S	upply	✓ Proce	8S	
(City:	Elgin	State:	SC	Zip:29045	☐ Irrigatio	n	☐ Air Cond	litioning	□Emen	jency	
85	1.50.E	28			3,53	☐ Test We	ell	☐ Monitorii	ng Well	☐ Repla	cement	
Tel	lephone: V	Vork:		Home:		8. WELL DEP	TH (completed	1)	Date Started:		9/2	28/2006
2. 1	LOCATION	OF WELL:	AS-40			1						
١	Name:	Handy Pan	try #65/Clo	ud's Chevro	n/Site	4	5	_ ft.	Date Complet			15/2006
	Street Add	ress:	2367 Taylo	r St./1600 T	wo Notch	9. Mud Ro	itary	□Jetted	339 3300	☑ Bored		
						□Dug		☐Air Rota	ry	□Driver	1	
(City:	Columbia,	SC	Zip:		☐Cable T	ool	☐ Other				
(COUNTY:	Richland				10. CASING:	☐Threaded	✓ Welded				
1	Latitude:	34°00.77	Longitude:	81°00.97		Diam.:		1"	Height: Above	e/Below		
3. 9	SYSTEM N	IAME:	SYSTEM NU	MBER:		Туре:	☑ PVC	☐ Galvanized	Surface		_	
S						1	☐ Steel	☐ Other	Weight			
4. (CUTTING	SAMPLES:	☐ Yes	✓ No		10	in. to 45	feet depth	Drive Shoe?	☐ Yes	V	No
K.				ACTUAL VANCOUS			in. to	feet depth	1 P. VANDO 1877 NA			
	Geophysic	al Logs:	☐ Yes	☑ No		11. SCREEN						
				*Thickness of	Depth to		PVC		Diam.:	4"		
S. III	For	mation Descrip	otion	Stratum	Bottom of	Slot/Gauge			Length:	20'		
		•		- Caracan	Stratum	Set Betwee	en: <u>1</u>	ft. and 10 ft. and	. ft. ft.			
	Red/b	rown clayey	/ sand	27'	27'	Sieve Analy	vsis	-	_ it. (please enclo	se)		₩ No
_						12. STATIC W	ATER LEVEL	 	<u>.u</u>			
Y	ellow to	gray clayey	sand (wet)	18'	45'				ft. below land	surgace after 2	4 hours	
			0000	7				v Land Surface _ hrs. Pumping		G.P.M.		
-						Pumping T			(please enclo	10 10 10 10 10 10 10 10 10 10 10 10 10 1		☑ No
						Yield:			(produce criticio			
		NOOD WATERWAY				14. WATER Q						
						Chemical A	Analysis E close lab resul	Yes 🔽 No	Bacterial A	knalysi⊡ Yes	No	
						15. ARTIFICIA			✓ Yes	□ No	0000001002	
_			***************************************		7 70		om	44	ft. to	45	ft.	
						Effective s			Uniformity Co	efficient		
						16. WELL GR		Yes	□ No	04		
_						Depth: Fr		and Cement 10	ft. to	Other	Oft.	
						17. NEAREST	SOURCE OF	POSSIBLE CO	TAMINATION		ft.	direction
								ype well disinfect	ed□ Yes 1	уре:		
_							5	unpon comp	etion 🔽 No			
i i						18. PUMP: Mfr. Name	Date installed	· ——	Model No.:	Not installe		
							Volts	Length of drop		ft. Capacity		gpm
		<u> </u>					Submersible			□Turbir		
							Jet (deep)	□Recipro		□Centr		
	8: 1/a					19. WELL DR	ILLER: 2485 Watson	Robyn Barkley	CERT. NO.:	9	34	
						Address:	Elgin, SC 29					;
°lr	ndicate Wa	ter Bearing Zo	nes (Use			1						
ľ		nd sheet if nee										
5.	REMARKS	3 :		· · · · · · · · · · · · · · · · · · ·		Telephone		(803)438-1331				
								ACTOR'S CERTI			ed under	my
						direction and t	nis report is tri	ue to the best of r	ny knowledge :	and belief.		
							Α .	_				
						101	1	Pa. h		40/07/00/	10	ļ
						Signed: //	zed Representative	userey	Date:	12/27/200	10	
ـــا		AND WE				I Addiona	- A representative					10 to 10



1.	WELL OW	NER INFOR	MATION:		- Tr	6. PERMIT NU	IMBER:	877				
-12808	Name:	Palmetto	Environment									
			(last)		(first)							
	Address:	P. O. Box	427			7. USE:		200701	NovaMona A ssino			
						Reside		☐ Public S		Process		
	City:	Elgin	State:	SC	Zip:29045	☐Irrigatio		☐ Air Cond		□Emerge	2000000	
						☐ Test W		☐ Monitori		Replace		0/0000
-	elephone: \			Home:		8. WELL DEP	TH (completed)	Date Started:		9/2	8/2006
2.		N OF WELL:								Fa ndor∎ss:	4014	EIGGGG
	Name:	1990	ntry #65/Clo				15	. ft.	Date Complet		12/1	5/2006
S	Street Add	ress:	2367 Taylo	or St./1600 T	wo Notch	9. Mud Ro	otary	☐Jetted	220	Bored		3
3	122			2000		□Dug		☐Air Rota	ту	□Driven		2
	City:	Columbia	, SC	Zip:		□Cable 1		Other	т			
		Richland				10. CASING:	LJ Threaded	Welded		322		
_			Longitude:			Diam.:		<u>1"</u>	Height: Above			
3.	SYSTEM I	NAME:	SYSTEM NU	MBER:		Type:	PVC		Surface			
£.,	-2000-0-200-0-1-1-1-					T Nati	☐ Steel	Other	Weight			(S)(S)
4.	CUTTING	SAMPLES:	☐ Yes	☑ No		0			Drive Shoe?	☐ Yes	Ø	No
							in, to	feet depth	L			
S.	Geophysic	al Logs:	☐ Yes	₩ No		11. SCREEN			D1	4"		
	E	mation Dec	dation	*Thickness of	Depth to	Type:	PVC		Diam.: Length:	<u>4"</u> 20'		
	FOI	mation Desci	ipaon	Stratum	Bottom of Stratum	Slot/Gauge Set Between		ft. and 10	ft.			_
-				 		- COLDENTER	<u></u>	ft. and	ft.			
	Red/t	orown claye	ey sand	27'	27'	Sieve Anal	ysis	□ Yes	(please enclos	se)	% o -82-383	No No
	/allow to	aray alays	road (18'	AEI	12. STATIC W	ATER LEVEL		A below land	01170000 nB4= 04 1	house	
7	ellow to	gray claye	y sand (wet)	18	45'	13 PIIMPING	LEVEL Below	Land Surface	π. below land	surgace after 24 l	nours	
								_ hrs. Pumping		G.P.M.		
Т	- 2 ² 3%					Pumping 1		☐ Yes	(please enclos			No No
						Yield:						
						14. WATER C		Yes 🔽 No	Bacterial A	ınalysi⊟ Yes	No	7 1
-						Chemical . Please en	close lab result		Dacterial A	инанузны тез	NON	4
		HORO DANS NA DE MAN					AL FILTER (filte		✓ Yes	□ No		
		*					rom	44	ft. to	45	ft.	
_						Effective s		✓ Yes	Uniformity Co	efficient		
6						Neat C	ement □ Sa	and Cement	Concrete I	Other		
-				 		Depth: Fr	om	10	ft. to	40	ft.	
L					\$3,1955.40		SOURCE OF	POSSIBLE CO	NOTAMINATION			direction
							T <u>y</u>	ype well disinfect				
						18. PUMP:	Date Installed	unpon comp	etion 🔽 No	Not installed		
						Mfr. Name		*	Model No.:	. vot n istancu	الك	
			<u></u>			H.P	Volts	Length of drop	pipe	ft. Capacity		gpm
L							Submersible	□Jet (sha		Turbine		2.0455
						19, WELL DR	Jet (deep)	☐Recipro Robyn Barkley		☐Centrifu 934		
-							2485 Watson	Nobyli Barkle)	JERT. NU.:	334		
]	Elgin, SC 290	045				
ì	ndicate Wa	ter Bearing Z	ones (Use			1	(Fair 1997)					
	a 2	nd sheet if ne										
5.	REMARK	S:				Telephone		(803)438-1331		Ja	- L-1-	
						and the second s				is well was drilled	under	my
						direction and	uus report is tru	ue to the best of r	ily Kilowiedge i	and Denet.		
						144	1					
						Signad:	In Ba	bloom	Date:	12/27/2006		
						Signed: 194	zer Representative	yary	Date	12/2/12000		
_			- X			1	1	<u> </u>				



1.	WELL OW	NER INFORM	ATION:			6. PERMIT NU	MBER:	877					
	Name:			al Group, Inc		Charles							
	Address:	P. O. Box		8.		7. USE:						2582043	
						□Resider	ntial	☐ Public St	upply	A	Process		
	City:	Elgin	State:	sc :	Zip:29045	☐ Irrigation	n	☐ Air Cond			Emerger		
	20186	sortio			nava*	☐ Test We		☐ Monitorir	ng Well		Replacer		
	elephone: V			Home:		8. WELL DEP	TH (completed)	Date Started:			9/2	8/2006
		N OF WELL:			AZASZERIAN		192	28					.
Í	Name:	197		ud's Chevror		-	15	_ ft.	Date Complet		In .	12/1	5/2006
	Street Addi	ress:	2367 Taylo	or St./1600 To	wo Notch	9.	otary	☐Jetted	LEPSES:		Bored		
	222200	.	00	<u></u>		□ Dug	Ya. 2.1	☐Air Rotai	ry		1Driven		8
1000	City:	Columbia,	SC	Zip:		☐Cable T		Other					
2		Richland	gr 300 44	04000		10. CASING:		Welded		m-!-			
			Longitude:			Diam.:		<u>1" </u>	Height: Above				
3.	SYSTEM N	VAME:	SYSTEM NUI	MBER:		Type:	PVC		and the second s		-		
-	O1 15	DATE:		[7] ··			□ Steel	Other	Weight		lac .	Ø	No
4.	CUTTING	SAMPLES:	☐ Yes	☑ No					Drive Shoe?	LI	1622	W.	No
	Gaselente	al Locar	□ v	☑ No		11 SODEEN	in. to	feet depth	L				
d	Geophysic	aı Lugs:	☐ Yes		Depth to	11. SCREEN Type:	PVC		Diam.:	4"	240000 M	T.p.	NAME AND ADDRESS OF THE PARTY O
	For	mation Descri	ption	*Thickness of	Bottom of	Slot/Gauge	.020		Length:	20'			_ 1
				Stratum	Stratum	Set Betwee		ft. and 10	ft.				-
	Pod/	orown claye	y gand	27'	27'	Sieve Analy	reie ——	ft. and	ft. (please enclos	3e)			☑ No
-	neu/L	JOWII Claye	y Janu		<u> </u>	12. STATIC W	ATER LEVEL	res	/hiease elicio	~ /			BAT INU
1	ellow to	gray clayey	sand (wet)	18'	45'				ft. below land	surgace a	after 24 h	ours	
						13. PUMPING				000	,		
<u>_</u>						Pumping T		hrs. Pumping	(please enclos	G.P.M se)	L.		☑ No
					1 3 1	Yield:			Chicago CHOIG	,		<u></u>	47 :40
						14. WATER Q			_	HATEN			
ŀ						Chemical /	Analysis □ close lab result	Yes 🕢 No	Bacterial A	nalysi□	Yes	No	1
						15. ARTIFICIA	L FILTER (filte	er pack)	✓ Yes				
						Installed fr	rom		ft. to	45		ft.	
L						Effective s		✓ Yes	Uniformity Co	etticient	-		
			g:					Yes and Cement □		Other			
Г				 		Depth: Fro	om	10	ft. to		40		
_							SOURCE OF	POSSIBLE CON			ft.		direction
							T ₃	ype well disinfect unpon compl	TOTAL STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET,		int-		
-	······					18. PUMP:	Date Installed		CHOIL ME INC			Z	
	-					Mfr. Name	ł		Model No.:		200 2		
						H.P.	Volts_	Length of drop		_ ft. Cap			gpm
		<u> </u>		12.00			Submersible Jet (deep)	☐Jet (shal]Turbine]Centrifug	ıal	
	Walter and the second	<u> </u>				19. WELL DR	ILLER:	Robyn Barkley			934		
							2485 Watson Elgin, SC 290		38 H				
٠		iter Bearing Zo				1							
	a 2ı	nd sheet if nee					1970						
5	. REMARKS	5:				Telephone	No.:	(803)438-1331 ACTOR'S CERTII	EICATION: TL	ie wall	المالم ود	ında-	my
								ACTOR'S CERTII ue to the best of n				aridel	ıııy
						h	1 M	1.11					
						Signed: Authoriz	zeg Representative		_ Date:	12/2	7/2006		<u> </u>
-							<i>g</i>					**	10000



1. WELL OW	NER INFORM	ATION:			6. PERMIT N	JMBER:	877		1022 U.1	
Name:		nvironment (last)	al Group, In	C. (first)						
Address:	P. O. Box 4	27		3	7. USE:					*** **** **** ***
e ii cor					□Reside	ntial	☐ Public S	upply	Process	
City:	Elgin	State:	SC	Zip:29045	☐Irrigatio	n	☐ Air Cond	ditioning	☐ Emerge	ncy
8					☐Test W	'ell	☐ Monitori	ng Well	Replace	ment
Telephone: V		and the same of th	Home:		8. WELL DEP	TH (completed	i)	Date Started:		9/28/2006
2. LOCATION	N OF WELL:									
Name:	3.50	100	ud's Chevro			1 5	_ ft.	Date Completed		12/15/2006
Street Add	ress:	2367 Taylo	or St./1600 T	wo Notch	9. Mud Ro	otary	☐Jetted		✓ Bored	
50 to 50 4.00					□Dug		☐Air Rota	ry	Driven	
City:	Columbia,	SC	Zip:		☐Cable 1		□Other			
SC XXX VA130	Richland		<u> </u>		10. CASING:	☐ Threaded	✓ Welded	.c		
	34°00.77				Diam.:		1"	Height: Above/B	elow	
3. SYSTEM N	VAME:	SYSTEM NUI	MBER:		Type:	☑ PVC		Surface	· · · · · · · · · · · · · · · · · · ·	
						☐ Steel	☐ Other	Weight		_
4. CUTTING	SAMPLES:	☐ Yes	✓ No		<u>_</u>	in. to <u>45</u>		Drive Shoe?	☐ Yes	✓ No
	2004-202-0-350-050-0		_			in. to	feet depth	<u> </u>		
Geophysic	al Logs:	☐ Yes	☑ No	Dandle 4e	11. SCREEN	D) (O		Diam.	4"	
For	mation Descrip	tion	*Thickness of	Depth to Bottom of	Type: Slot/Gauge	PVC .020			20'	
			Stratum	Stratum	Set Betwee		ft. and 10	ft.	-y	
					į.		ft. and	ft.		
Red/b	prown clayey	sand	27'	27'	Sieve Anal	ysis	☐ Yes	(please enclose)	<u> </u>	Ø No
Yellow to	gray clayey	sand (wet)	18'	45'	12. STATIC W	ATER LEVEL	•	ft. below land su	roace after 24 h	tours
	.,.,,				13. PUMPING	LEVEL Below	Land Surface		.g	
							_ hrs. Pumping		G.P.M.	68
					Pumping 1 Yield:		☐ Yes	(please enclose)): 	☑ No
				198 - 80	14. WATER C]Yes ☑ No	Bacterial Ana	lysi□ Yes	No.
					Please en	close lab resuit	ts —			
						AL FILTER (filt			☐ No 45	ft.
					Effective s	om		ft. to Uniformity Coeff		11.
	· · · · · · · · · · · · · · · · · · ·				16. WELL GR	OUTED?	✓ Yes	☐ No	100	
					✓ Neat C	ement 🔲 Sa	and Cement	Concrete O	her	
					Depth: Fr	om SOURCE OF	POSSIBLE CO	ft. to	40 ft.	
	****				17. NEARES			ed Yes Typ		direction
							_ unpon compl		Amount:	
					18. PUMP:	Date installed	:		Not installed	\square
					Mfr. Name H.P.	voits	Length of drop	Model No.:	ft. Capacity	gpn
0 E						Submersible	_ Length of drop ☐Jet (sha		Turbine	ab
						Jet (deep)	□Recipro	cating	□ Centrifu	
4					19. WELL DR		Robyn Barkley	CERT. NO.:	934	
8					Address:	2485 Watson Elgin, SC 290				
	ter Bearing Zor			100 t. tell 1	ĺ	g, 00 _0.				
5. REMARKS		,	L		Telephone	No.:	(803)438-1331			
					20. WATER W	ELL CONTRA	ACTOR'S CERTI	FICATION: This may knowledge and		under my
ii					1 h	1 1	1.0			
5					Signed: Authorit	zed Representative	andley	Date:	12/27/2006	
					l	/				



1. WELL OW	NER INFORM	ATION:			6. PERMIT N	JMBER:	877				
Name:		nvironment (last)	al Group, In	C. (first)							
Address:	P. O. Box 4	127			7. USE:					*	
					□Reside	ntial	☐ Public S	upply	✓ Process	ij	
City:	Elgin	State:	SC	Zip:29045	☐ Irrigatio	on	☐ Air Cond	ditioning	☐ Emerge	псу	
	15. 53 8			TO MODEL SEPARATE	☐ Test W	'ell	☐ Monitorii	ng Well	□Replace	ment	
Telephone: V	Vork:		Home:		8. WELL DEP	TH (completed)	Date Started:		9/2	8/2006
2. LOCATION	OF WELL:	AS-44				200 LV C 16 40.000 CARSO - CARSO COSC COSC	~				
Name:	Handy Pan	try #65/Clo	ud's Chevro	n/Site	l	45	_ ft.	Date Completed	d:	12/1	5/2006
Street Add	ress:	2367 Taylo	or St./1600 T	wo Notch	9. Mud Re	otary	□Jetted		☑ Bored		
		•			□Dug		☐Air Rota	ry	□Driven		
City:	Columbia,	SC	Zip:		□Cable 1	Fool	□Other				19
	Richland		2 3 .1		10. CASING:	☐Threaded	Welded	T			
Latitude:	34°00.77	Longitude:	81°00.97		Diam.:		1"	Height: Above/E	Below		8
3. SYSTEM N		SYSTEM NU			Type:	PVC	☐ Galvanized	Surface			N.
					1,400.	☐ Steel	Other	Weight			3
4. CUTTING	SAMPLES:	☐ Yes	✓ No	-	1 0			Drive Shoe?	☐ Yes		No
	Orani ELO:	_ ,00	67 140			in. to	feet depth	Dilve Grice:	_ ,05		.10
Geophysic	al I one:	☐ Yes	☑ No		11. SCREEN	и. ю	icet depui	L			
Осорнува	ai Logs.	L 168		Depth to	Type:	PVC		Diam.:	4"		
For	mation Descrip	otion	Thickness of	Bottom of	Slot/Gauge			Length:	20'		
			Stratum	Stratum	Set Between		ft. and 10	ft.			
Dod/h			071	271]		ft. and	_ft.			M
Reu/L	rown clayey	Sanu	27'	27'	Sieve Anal	ysis /ATER LEVEL	Yes	(please enclose)		√ No
Yellow to	gray clayey	sand (wet)	18'	45'	IZ SIAIIO	MILK LLVEL		ft. below land su	urgace after 24 h	lours	
N S					PERSONAL SERVICE SERVICES SERVICES	LEVEL Below			5 W 103 B 54		
							_hrs. Pumping				
					Pumping 1 Yield:	rest:	☐ Yes	(please enclose))		₩ No
					14. WATER C		5				
					Chemical . Please en	Analysis □ close lab result	lYes ☑ No s	Bacterial Ana	alysi□ Yes	No.	
						AL FILTER (filte		✓ Yes	□ No		
INE SI INA SESSI	2013-040 di					om	44	ft. to	45	ft.	9
					Effective s		✓ Yes	Uniformity Coef No	ticient	-	
								Concrete C	ther		
					Depth: Fr	om	10	ft. to	40	ft.	Water of
					17. NEAREST		POSSIBLE CON		ft.		direction
						T)	pe well disinfect	ed□ Yes Typ			
					18. PUMP:	Date Installed	unpon compl	etion 🔽 No	Amount: Not installed		
					Mfr. Name			Model No.:	.101000.00	السكا	
					H.P.	Volts	Length of drop	pipe	ft. Capacity		gpm
20 20 20						Submersible	□Jet (sha		Turbine		
					19. WELL DR	Jet (deep)	☐Reciprod Robyn Barkley		☐Centrifu 934		
				-		2485 Watson Elgin, SC 290		VERTI. NV	334		
Indicate Wa	ter Bearing Zor	nes (Use			1	Ligiti, OU 230					9
a 2r	nd sheet if nee										
5. REMARKS	3:			8	Telephone		(803)438-1331				
i :								FICATION: This my knowledge an		under i	пу
					10	1 10	10		15000 (1500 Par - 1500)		
					Signed: // Authori	zes Representative	rpley	Date:	12/27/2006		
N 11					l	<i>y</i>					



1. WELL OW	NER INFORM	ATION:			6. PERMIT NU	JMBER:	877)	a w s		
Name:		nvironment (last)	al Group, Ind	C. (first)			50000000000000000000000000000000000000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Address:	P. O. Box 4				7. USE:						
ı,					☐ Reside	ntial	☐ Public S	upply	✓ Process		×
City:	Elgin	State:	SC	Zip:29045	☐ Irrigatio	n	☐ Air Cond	ditioning	□ Emerge	псу	8
1.7	PA-120			Marco 286 (0)	☐ Test W	ell	□ Monitori	ng Well	☐ Replace	ement	
Telephone: V	Vork:	01 MW	Home:		8. WELL DEP	TH (complete	ed)	Date Started:		9/2	8/2006
2. LOCATION	OF WELL:	AS-45		3.0							
Name:	Handy Pan	try #65/Clo	ud's Chevro	n/Site		15	ft.	Date Complete	d:	12/1	5/2006
Street Addi	ress:	2367 Taylo	r St./1600 T	wo Notch	9. Mud Ro	otary	□Jetted		✓ Bored		
		-			□Dug		☐Air Rota	ry	□Driven		3
City:	Columbia,	SC	Zip:		☐Cable 1	Fool	☐Other				_
COUNTY:	Richland				10. CASING:	☐Threaded	✓ Welded				
Latitude:	34°00.77	Longitude:	81°00.97		Diam.:		1"	Height: Above/	Below		
3. SYSTEM N		SYSTEM NU			Type:	☑ PVC	☐ Galvanized	Surface			
					,,,,,,,	☐ Steel	☐ Other	Weight			
4. CUTTING	SAMPLES:	☐ Yes	✓ No		1 0	in. to 45		Drive Shoe?	☐ Yes		No
						in. to	feet depth				
Geophysic	al Logs:	☐ Yes	☑ No		11. SCREEN			*			
				Depth to	Type:	PVC		Diam.:	4"		
For	mation Descrip	otion	*Thickness of Stratum	Bottom of	Slot/Gauge	.020	<u>*</u>	Length:	20'		
- NO			Suatum	Stratum	Set Betwee	en: <u>1</u>	ft. and10	_ ft.			S
Ped/h	rown clayey	, cand	27'	27'	Cinum Amel		ft. and	_ft. s (please enclose			☑ No
INCUID	nown claye	Sailu		<u> </u>	Sieve Anal	ATER LEVE	L Tes	(please enclose	3)	-	M NO
Yellow to	gray clayey	sand (wet)	18'	45'			_	ft. below land s	urgace after 24 i	nours	
	CANCEL CONTROL OF THE						w Land Surface		() () () () () () () () () ()		
							hrs. Pumping	(-			No.
		9			Pumping 1 Yield:	est	☐ Yes	(please enclose	e)		No No
					14. WATER O	UALITY					
	a_10000 0000 00000 V			8 8	Chemical		Yes 🔽 No	Bacterial An	alysi⊟ Yes	No.	<u> </u>
				1.00		close lab resu					
		ar K			15. ARTIFICIA	AL FILTER (1) 'OM		Y Yes	□ No 45	ft.	
					Effective s			Uniformity Coe		IL.	
					16. WELL GR	OUTED?		□ No			
							Sand Cement	Concrete C	Other		
					Depth: Fr	om	10 F POSSIBLE CO	ft. to	40 ft.		din din
-					17. NEARES		r POSSIBLE COI Type well disinfect				direction
						# *** **	unpon comp		Amount:		
		Wil Was			18. PUMP:	Date Installe			Not installed	Z	10.0
					Mfr. Name			Model No.:	A 0		
5					H.P.	Voits Submersible	Length of drop ☐Jet (sha		ft. Capacity ☐Turbine		gpm
						Jet (deep)	⊟Recipro		☐ Centrifu		
					19. WELL DR		Robyn Barkley		934		
		in the state of th			Address:	2485 Watso Elgin, SC 29					
Indicate Wa	ter Bearing Zo	nes (Use			1						
	nd sheet if nee				1						
5. REMARKS):				Telephone		(803)438-1331				
							ACTOR'S CERTI			under	my
					direction and t	inis report is t	rue to the best of r	ny knowledge ar	na beliet.		
						0					
8					10.	1 1	Berle	B	40/07/0000		
1					Signed: 10	zed Representativ	sourcent	_ Date:	12/27/2006		
					Aumon	con kelti esentativ			2 30 2		



1. WELL OW	NER INFORMA	TION:			6. PERMIT NU	JMBER:	877				
Name:	Palmetto Er	nvironment (last)		C. (first)			- consequently.		<u> </u>		18
Address:	P. O. Box 4	27		1	7. USE:						
					□Reside	ntial	☐ Public S	upply	Process	ı	
City:	Elgin S	State:	SC .	Zip:29045	☐Imigatio	n	☐ Air Cond	litioning	☐ Emerge	ncy	
362	5,-0				☐ Test W	elt	☐ Monitori	ng Well	☐ Replace	ment	
Telephone: V	Work:		Home:	X .	8. WELL DEP	TH (completed)	Date Started:		9/28	/2006
2. LOCATION	N OF WELL:	AS-46	Sev-000000000000000000000000000000000000								New Assessment
Name:	Handy Pant	ry #65/Clo	ud's Chevroi	n/Site		15	_ft.	Date Complete	d:	12/15	/2006
Street Add	ress:	2367 Taylo	r St./1600 T	wo Notch	9. Mud Ro	otary	□Jetted		✓ Bored		
					□Dug		☐Air Rota	гу	□Driven		
City:	Columbia, S	SC	Zip:		☐Cable 1		□Other				
COUNTY:	Richland				10. CASING:	☐Threaded	✓Welded	700	50 600		
Latitude:	34°00.77 L	_ongitude:	81°00.97		Diam.:		1"	Height: Above/	Below		
3. SYSTEM N	NAME: S	SYSTEM NUI	MBER:		Type:	☑ PVC	☐ Galvanized	Surface			
		4-3-0-36	2028 CB1 421	- managa kana man-man		☐ Steel	☐ Other	Weight		-	
4. CUTTING	SAMPLES:	☐ Yes	✓ No]o	in. to 45	feet depth	Drive Shoe?	☐ Yes	☑ N	0
						in. to	feet depth				
Geophysic	al Logs:	☐ Yes	☑ No	200202 0000 0000	11. SCREEN			72	1000		
		•	*Thickness of	Depth to	Type:	PVC		Diam.:	4"		_
For	mation Descript	ion	Stratum	Bottom of	Slot/Gauge		- A 40	Length:	20'	38	_
		****		Stratum	Set Betwee	an: <u>1</u>	ft. and 10 ft. and	- 1C. ft.			
Red/b	prown clayey	sand	27'	27'	Sieve Anal	ysis	☐ Yes	(please enclose	e)	E	7 No
V			4.51		12. STATIC W	ATER LEVEL					
Yellow to	gray clayey s	and (wet)	18'	45'	12 BUNDING	TEVEL Bolov	Land Surface	ft. below land s	urgace after 24 l	nours	
					BALLACTE MAN AND STATE OF THE S		hrs. Pumping		G.P.M.		
					Pumping 1 Yield:		☐ Yes	(please enclose		6	Z] No
					14. WATER C		4				,
					Chemical . Piease en	Analysis close lab result]Yes [☑]No hs	Bacterial An	alysi□ Yes	No√	
		100 - 100 - 110 -		99		AL FILTER (file		✓ Yes	□ No		
		·A		2008		om	44	ft. to Uniformity Coe	45	ft.	
	· · · · · · · · · · · · · · · · · · ·				Effective s		✓ Yes	□ No	maent		
							and Cement 🔲		Other		
					Depth: Fr	om		ft. to	40		
					17. NEAREST		POSSIBLE CON			d	irection
					-		ype well disinfect unpon compl		Amount:		
					18. PUMP:	Date Installed		G	Not installed	Z	
					Mfr. Name		•	Model No.:		10 ⁷⁷ - 10	
i i					H.P.	Volts	Length of drop ☐Jet (sha		ft. Capacity ☐Turbine		gpm
						Submersible Jet (deep)	☐Recipro		☐ Centrifu		
	<u> </u>			81 25 5 <u>7</u>	19. WELL DR	ILLER:	Robyn Barkley		934		3 33 3
				· ·	Address:	2485 Watson Elgin, SC 290	045				
	ter Bearing Zon		, , /	Carlotte Carlot Value	1						
	nd sheet if need	ed)									
5. REMARKS	S:			net si	Telephone		(803)438-1331	EICATION. THE	umli uma dalli-d	ımder -	
							ACTOR'S CERTIL ue to the best of r			uluer m	У
					1	1 1					
					Signed: Ro	lyn B	uplen	Date:	12/27/2006		
<u></u>			With the transfer		Authori	zed Representative		0 20 To William 200			



. 16/51 610	NED INCOMME				6. PERMIT NU	MOCD.		877			30, 10,00		to the same of	
	NER INFORMATION Palmetto Environ		al Group In-		O. PERMIT NU	midel(Of f						
Name:	(las	st)		c. (first)			200							
Address:	P. O. Box 427	7			7. USE:					_	7 0-			
					Resider			☐ Public Su		100	Process			
City:	Elgin Stat	ite:	SC 2	Zip:29045	□Irrigation			☐ Air Condi	Mark 1997 - MAR		☐ Emerger	50.00		
2000					☐ Test We			Monitorin			Replace		19/20	Oe.
Telephone: V			Home:	The second	8. WELL DEP	TH (compl	reted)		Date Started:	•		8/2	28/20	UO
	N OF WELL: AS Handy Pantry		id's Chausa-	y/Site		15	4	ft.	Date Comple	ted:		12/1	15/20	06
Name: Street Add			or St./1600 Ti		9. Mud Ro			UJetted			Bored			- •
Oueel AGG		or rayio	. JUI 1000 I	110(6)	Dug			□Air Rotar	Y		Driven			
City:	Columbia, SC) 1	Zip:		□Cable T	rool .		Other						
	Richland	N.	-r		10. CASING:		J bet	Welded						
Latitude:		ngitude:	81°00.97		Diam.:		1		Height: Above	e/Below	S			
3. SYSTEM N		STEM NUM				☑ PVC			Surface					
			5 B	772]	☐ Steel	-		Weight			•		
4. CUTTING	SAMPLES:	☐ Yes	√ No		0		BY VALLE		Drive Shoe?		Yes		No	
						in. to		feet depth						
Geophysic	al Logs:	☐ Yes	☑ No		11. SCREEN									
		1	*Thickness of	Depth to	Type:	PVC	120		Diam.:	4" 20'				
For	rmation Description	11	Stratum	Bottom of Stratum	Slot/Gauge Set Betwee)20 f	ft. and 10	Length:ft.	ZÚ.				
	_		Annual transaction description		7			ft. and	ft.					
Red/t	brown clayey sa	and	27'	27'	Sieve Analy				(please enclo	ose)			V	No
Yellow 4-	gray clayey sar	nd (was	18'	45'	12. STATIC W	VATER LE	VEL	power	ft. below land	i suma	e after 24 L	JOHE		
I CHOM (O	gray clayey sa	in (MG()	10	70	13. PUMPING	LEVEL B	elow L	and Surface	TIBI WOOD	. vergati				
						ft. after		hrs. Pumping		G.P.	.M.		_	
					Pumping T	Test:		☐ Yes	(please enclo	ose)			\square	No
			 		Yield:	UALITY								
					Chemical /	Analysis	۱۵	CONTRACTOR CONTRACTOR	Bacterial /	AnalysiC	Yes	No	7	
				21/27 P. T. T. T. T. T. T. T. T. T. T. T. T. T.	Please end				71 V		No			_
			1		15. ARTIFICIA	AL FILTER rom			Yes ft. to	45	, 140	ft.		
Workship on the con-					Effective s	size	1784		Uniformity Co		t			
					16. WELL GR	OUTED?	S. Carriero	✓ Yes	☐ No					
			1		✓ Neat C Depth: Fr		J San	nd Cement 10	Concrete □	Other .	40	ft.		
		1000 mm		1	17. NEAREST	SOURCE	OFP	OSSIBLE CON	IOITAMINATIO	N:	ft.		direc	tion
			1				Тур	e well disinfecte	ed□ Yes '	Type:				_
					40 BIHES	Date L	officer.	unpon comple	etion 🗸 N		ount: ot installed			
			1		18. PUMP: Mfr. Name	Date Insta	wallett.	N	Model No.:	INC	a iotalicu	لكت		
					Н.Р.	Volts		Length of drop	pipe		apacity		6	gpm
						Submersi		☐Jet (shal			Turbine			
				1	19. WELL DR	Jet (deep)	<u>"</u>	☐Reciprod Robyn Barkley			☐Centrifu 934	-		-
	_ 5 5 <u>5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</u>					2485 Wat		, warnie)			50			
	100				4	Elgin, SC		15						
	ater Bearing Zones			1	I									
	2nd sheet if needed	9)		L	Talant	a No ·		(R03)439 4354						
5. REMARK	.a.				Telephone 20. WATER V			(803)438-1331 CTOR'S CERTII		his well	was drilled	under	my	
								to the best of n					N 30	
								-	-					
					h	1	M	£						
					Signed: U	Tryn	Ba	Don	_ Date:	12	/27/2006	<u>i </u>		-
						tzer Represen	ntative							
									30(100-00)		- A - A - A - A - A - A - A - A - A - A	47. 30.50		



4 WELL 014	NED WEADY	ATION-		1 1000	6. PERMIT NU	MDED.	877				
	NER INFORMA		ol Cross Inc		O. PERMIT NU	MDEK:	0/1				
Name:		nvironment (last)	al Group, Inc	(first)							
Address:	P. O. Box 4	27			7. USE:		7 <u>-3-2</u> 00				
					Resider		☐ Public S	100000000000000000000000000000000000000	Process		
City:	Elgin	State:	SC	Zip:29045	□lrrigatio		☐ Air Cond		□ Emerge	10.500	
omenico de <mark>e</mark> podíti	er yelde⊒ te Red				☐Test W		□Monitori		☐ Replace		0/0000
Telephone: \	Work: N OF WELL:		Home:		8. WELL DEP	TH (completed	d)	Date Started:		9/2	8/2006
			ud's Chevroi	1/Site		15	_ ft.	Date Complete	ad.	12/1	5/2006
Name:	9.50		ua's Chevroi or St./1600 T		9. Mud Ro		_ IL.	Date Complete	Bored	1507 1	
Street Add	1685.	2301 Taylo	i OLTIOUU I	WO NOTCH	Dug	rui y	☐Air Rota	rv	Driven		
City	Columbia	90	7in:		☐Cable 1	Foot	☐Other	-2			
City:	Columbia, Richland	30	Zip:		10. CASING:			T			
		l anothules	81°00.97		TO THE RESERVE OF THE PERSON O	- HICAUCU	4n	Height: Above	/Below		
Latitude:				10 to 10	Diam.:	PVC	☐ Galvanized				
3. SYSTEM I	NAME:	SYSTEM NUI	MBEK:		Type:	Steel	☐ Galvanizeo	Weight			
4. CUTTING	SAMPI ES-	☐ Yes	✓ No		d o		C	Drive Shoe?	☐ Yes		No
7. UU I IIIG	want LEG.	L (69	ALI NU			in. to	feet depth				
Geophysic	al Lone.	☐ Yes	☑ No		11. SCREEN				····		
Copilysic	A. LVIO.			Depth to	Type:	PVC		Diam.:	4"		
For	rmation Descrip	otion	Thickness of Stratum	Bottom of	Slot/Gauge			Length:	20'		
	77		OURIUM	Stratum	Set Betwee	en: <u>1</u>	ft. and 10	_ ft. ft.			
Red/i	brown clayey	v sand	27'	27'	Sieve Anat	vsis	ft. and Yes	_π. s (please enclos	se)		No.
Total Section 1	400	estate comm			12. STATIC V					rescalcan	
Yellow to	gray clayey	sand (wet)	18'	45'	40 MINISTER	rrever nor	w Land Surface	ft. below land	surgace after 24	rours	
N. Santos					13. PUMPING		w Land Surface hrs. Pumping		G.P.M.		
Park to					Pumping 1			s (please enclos			☑ No
					Yield:						
					14. WATER C		T Vac Et Na	Bacterial A	nalvsi⊟ Yes	No	7
				-	Chemical Please en	close lab resu]Yes [2]No fits	Dauena A	ialysiLI Tes	MON	
					15. ARTIFICI	AL FILTER (fil	ter pack)	✓ Yes	□ No	_	
	0.			3. 3.3		rom	44	ft. to Uniformity Con	45	ft.	
					Effective s	The second secon	✓ Yes	☐ No	entaerit		
					✓ Neat C	ement 🗆 S	Sand Cement	Concrete	Other		-
					Depth: Fr	om	10) ft. to	40	ft.	-#4*-
					17. NEARES	SOURCE O	F POSSIBLE CO	NTAMINATION	ft	-	direction
					—		Type well disinfect unpon comp				
	300 0 2020				18. PUMP:	Date Installe			Not installed	V	
					Mfr. Name			Model No.:	A C		
	· 00				H.P.	Voits Submersible	Length of drop ☐Jet (sha	-	_ ft. Capacity ☐Turbine		gpm
						Jet (deep)	☐Recipro		☐ Centrift		e
1000					19. WELL DR	ULLER:	Robyn Barkle	y CERT. NO.:	934	_	
					Address:	2485 Watson					
Indianta M	ater Booring 7a	nae Ales			1	Elgin, SC 29	2013				
	ater Bearing Zo 2nd sheet if nee										
5. REMARK			J		Telephone		(803)438-1331				
					20. WATER V	VELL CONTR	ACTOR'S CERT			under	my
					direction and	this report is t	rue to the best of	my knowledge a	and belief.		
}						A					
l					10		h.10.		40 107 1000	•	
					Signed: //	m./	Barkley	_ Date:	12/27/2006	<u> </u>	
					Author	ized Representativ					



1.	WELL OW	NER INFOR	MATION:			6. PERMIT NU	IMRER:	877			W	- 19
•	Name:		Environmen			J. I EJ WIAT INC		•				
	11 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1		(last)		(first)							
	Address:	P. O. Box	(427			7. USE:	WE 12		AND ELECTION			
						Resider		☐ Public S		Process		
	City:	Elgin	State:	SC	Zip:29045	☐Irrigatio		☐ Air Cond		☐ Ernerge	1000	
						☐ Test W		☐Monitori	ng Well	Replace		
_	elephone: V			Home:		8. WELL DEP	TH (completed	i)	Date Started:		9/2	8/2006
2.	LOCATIO	N OF WELL:	V E 2000 5000									
	Name:	51 5 2	antry #65/Clo				5	_ft_	Date Complete		12/1	5/2006
	Street Add	ress:	2367 Taylo	or St./1600 T	wo Notch	9. Mud Ro	otary	□Jetted		✓ Bored		
						Dug		☐Air Rota	ry	☐ Driven		
	City:	Columbia	ı, SC	Zip:		☐Cable 1		☐Other				
		Richland				10. CASING:	☐ Threaded	✓ Welded				
	Latitude:	34°00.77	Longitude:	81°00.97		Diam.:		1"	Height: Above	Below		
3.	SYSTEM !	AME:	SYSTEM NU	MBER:	i kangalawa Mara	Туре:	☑ PVC	☐ Galvanized	Surface			
							☐ Steel	☐ Other	Weight		-	
4.	CUTTING	SAMPLES:	☐ Yes	No		10	in. to 45	feet depth	Drive Shoe?	☐ Yes	V	No
							in. to	feet depth				
	Geophysic	al Logs:	☐ Yes	No		11. SCREEN						
				*Thickness of	Depth to	Type:	PVC		Diam.:	4" 20'		
	For	mation Desc	ription	Stratum	Bottom of	Slot/Gauge			Length:	20'		
_				Olididiii	Stratum	Set Betwee	en: <u>1</u>	ft. and 10	_ft. ft.			
	Red/k	prown clay	ev sand	27'	27'	Sieve Analy	eie	ft. and	_ 1L s (please enclos	a)		No
-			o, cana			12. STATIC W		<u> </u>	(predoc encice	<u>., </u>		N/I IN
1	fellow to	gray claye	y sand (wet)	18'	45'				ft. below land :	surgace after 24 l	nours	
								/ Land Surface	17			
_				<u> </u>		Pumping T	n. atter	_ hrs. Pumping	(please enclos	G.P.M.		⊏a No
				1 .		Yield:	CSL	П	(picase circios	·c)		No No
						14. WATER Q	UALITY					
						Chemical /		Yes 🔽 No	Bacterial A	nalysi□ Yes	No	3
							close lab result		- Fa V			
				-		15. ARTIFICIA	om Om		Yes ft. to	☐ No 45	ft.	
						Effective s			Uniformity Cos		14.	
			12010			16. WELL GR	OUTED?	✓ Yes	☐ No			
_								and Cement 🔲				 .
						Depth: Fro	om SOURCE OF	POSSIBLE CO	ft. to	40	ft.	direction
						II. NEAREST	SOURCE OF	ype well disinfect	ed Yes Ti	me.	—	onecoon
								unpon comp				
	· · · · · · · · · · · · · · · · · · ·					18. PUMP:	Date installed			Not installed	V	
	2			.		Mfr. Name		1 amade - £ 4	Model No.:	A 0		
							Volts Submersible	_ Length of drop ☐ Jet (sha		ft. Capacity Turbine		gpm
-				<u> </u>			Jet (deep)	☐Recipro		☐ Centrifu		
			22_00000			19. WELL DR		Robyn Barkley		934		
							2485 Watson					
•.			-	 		4	Elgin, SC 290)45				
		ter Bearing 2		1		Į						ĵ
ë		nd sheet if no	edea)	<u>L</u>		Tolombono	Mo ·	/803\/30 1331				
J.	REMARKS	2.				Telephone		(803)438-1331 ACTOR'S CERTI		s well was drilled	under	mv
								e to the best of r				
						1	1	6 10				
						Signed: Ita	Inn 1	Sarkler	Date:	12/27/2006		
						1 - V	red Pepresentative	-				
-			2010-			*****						



1. WELL OW	NER INFORM	ATION:		100 - 100 to 200 to 100 to	6. PERMIT NU	JMBER:	877				
Name:		(last)	al Group, Inc	C. (first)							
Address:	P. O. Box 4	427			7. USE:						
					Reside	ntial	☐ Public S	5.5 5	✓ Process		
City:	Elgin	State:	SC	Zip:29045	□Irrigatio		☐ Air Cond		□Emerge	550	
					☐Test W		□Monitori	ng Well	□Replace		
Telephone: V			Home:		8. WELL DEP	TH (completed)	Date Started:	v accessor and a contract	9/2	8/2006
2. LOCATION	N OF WELL:										
Name:	Handy Pan		ud's Chevro			15	_ ft	Date Complete		12/1	5/2006
Street Add	ress:	2367 Taylo	or St./1600 T	wo Notch	9. Mud Re	otary	☐Jettedi ☐Air Rota	·rv	☑ Bored ☐ Driven		
City:	Columbia,	SC	Zip:		□Cable 1	Foot	□Other	-,			
0.00	Richland		щ.		10. CASING:		Welded	1			
EDITOR NUMBER OF STREET WEST		Longitude:	81°00 97		Diam.:		1"	Height: Above	Below		
3. SYSTEM N		SYSTEM NU		1. 10.4%	Type:	₽ PVC	☐ Galvanized				
	1 (550000 SECUL	m 1101			, ,,,,,,	☐ Steel	Other	Weight		_	
4. CUTTING	SAMPLES:	☐ Yes	✓ No		10		feet depth	Drive Shoe?		Ø	No
						in. to	feet depth				
Geophysic	al Logs:	☐ Yes	☑ No	201 - 1/201/2017 - 1/201/2017	11. SCREEN						
2			*Thickness of	Depth to	Type:	PVC		Diam.:	4" 20'		_
For	mation Descrip	otion	Stratum	Bottom of	Slot/Gauge		ft and 40	Length:ft.	20'		- 1
		-		Stratum	Set Betwee	en: <u>1</u>	ft. and	_ 11. ft.			
Red/b	prown claye	y sand	27'	27'	Sieve Anal	ysis	☐ Yes	(please enclos	e)		☑ No
Vellow to	gray clayey	eand (wot)	18'	45'	12. STATIC W	ATER LEVEL		A halou land	wanna char 24 t	20115	
1 GIIOM IO	gray clayey	adiin (Mel)	10	40	13. PUMPING	LEVEL Below	Land Surface	IL DEIOW ISING S	surgace after 24 h	RUIS	
				,300 19 Amo		realization () - zww.commission.com	hrs. Pumping		G.P.M.		
					Pumping 1 Yîeld:	Test:	☐ Yes	(please enclos	e)		Ø No
00-					14. WATER C		IYes ☑ No	Bacterial Ar	nalysi⊟ Yes	No.	
					Please en	close lab result	S				8) 3)
						AL FILTER (filte		✓ Yes	□ No		8
					Installed fr Effective s	rom	44	ft. to Uniformity Coe	45	ft.	
					16. WELL GR		✓ Yes	☐ No	molem		
			4	. 1010	✓ Neat C	ement Sa	ind Cement [Concrete	Other		
					Depth: Fr		POSSIBLE CO	ft. to	40 ft.		direction
					III. HEARES!		pe well disinfect				CBC(III)
		No.	il Amenday as	35 (Ind. 4.8) (5 - 4)			unpon comp		Amount:		
					18. PUMP:	Date Installed	:	10-0-10-	Not installed	Z	
-					Mfr. Name H.P.	: Volts	Length of drop	Model No.:	ft. Capacity	6.5	gpm
			9			Submersible	_ Lengar or drop ☐ Jet (sha		Turbine		_ ahun
		****			1 0	Jet (deep)	□Recipro	cating	□Centrifu	gal	
	-				19. WELL DR		Robyn Barkley	CERT. NO.:	934	2000 2000	
					Audress:	2485 Watson Elgin, SC 290	145				
Indicate Wa	ter Bearing Zo	nes (Use			1						19
a 2r	nd sheet if nee			9	1						33
5. REMARKS	3:				Telephone		(803)438-1331				
							CTOR'S CERTI te to the best of t		s well was drilled nd belief.	under r	пу
					M	1	. 1.				
					Signed: Mr	Myn B	arller	Date:	12/27/2006		
	S 55					zed depresentative					



1. WELL OW	NER INFORM	ATION:	CATALON CONTRACTOR		6. PERMIT NU	IMBER:	877				
Name:		nvironment (last)	al Group, Inc	C. (first)							
Address:	P. O. Box 4			lmori	7. USE:						
Audiess.	1 . O. DOX -	121			□Reside	ntial	☐ Public S	amnly	Process	io:	
City:	Elgin	State:	SC	Zip:29045	□Irrigatio		☐ Air Con		□Emerge		
Ony.	Ligai	SIAIG.	3 C	Z1p.23040	☐ Test W		☐ Monitori		□Replace	100	
Telephone: V	Mork-		Home:		8. WELL DEP			Date Started:	Длюрасс		8/2006
	N OF WELL:	AS-51	rionie.		O. WELL DEF	TTT (COMPRESSE	•/	Date Glarted.		0,2	.0,2000
Name:	SOLVED STATE OF THE STATE OF TH	and the same of th	ud's Chevro	n/Site	4	15	_ ft.	Date Complete	ď	12/1	5/2006
Street Add			or St./1600 T		9.		□Jetted	Date Complete	Bored	124	0,2000
Od COL FAID	1000.	zoo, rayio	# OLJ 1000 1	WO NOW!	DDug	,,,,	☐Air Rota	irv	□Driven		
City:	Columbia,	SC.	Zip:		□Cable 1	Fool	□Other	•			
	Richland	-	ωу.		10. CASING:		Welded	T			
		Longitude:	81º00 07		Diam.:	_ 1150000	19	Height: Above/	Relow		
3. SYSTEM N		SYSTEM NU				☑ PVC	☐ Galvanized	1955			
3. 3131EM N	Public.	3131EM NO	ADEN:		Туре:	□ Stee!	Other	Weight			
4. CUTTING	CAMPLES.	☐ Yes	☑ No		۰ ا			Drive Shoe?	□ Yes	Z	No
4. CO111NG	SAMPLES.	L res	MA NO				feet depth	Drive Shoer	Li res	œ	140
Geophysic	ol Logo:	☐ Yes	☑ No		11. SCREEN	in. to	ieei depiri	J			
Geophysic	ar Logs:	Li Tes		Depth to	Type:	PVC		Diam.:	4"		
For	mation Descrip	tion	Thickness of	Bottom of	Slot/Gauge		100	Length:	20'	200100	_
	•		Stratum	Stratum	Set Betwee		ft. and 10	ft.			
D-46			071	A71	1		ft. and	_ft.			
Reu/D	prown clayey	/ sano	27'	27'	Sieve Anal			s (please enclose	9)		No No
Yellow to	gray clayey	sand (wet)	18'	45'	IZ SIAIIO II	WIEN FEAFF		ft. below land s	urgace after 24 h	nours	
2 					Aviation, national investor		Land Surface				
							_ hrs. Pumping		G.P.M.		
					Pumping 1 Yield:	est	☐ Ye	s (please enclose	9)		☑ No
	**************************************				14. WATER O	UALITY					
	22.80.0014				Chemical		Yes 🕢 No	Bacterial An	alysi□ Yes	No	3
						close lab resul					
					15. ARTIFICIA	om om		Yes ft. to	□ No 45	ft.	
					Effective s		44	Uniformity Coe		14.	
					16. WELL GR	OUTED?	✓ Yes	☐ No			
							and Cement [Concrete	Other		
					Depth: Fr) fl. to NTAMINATION:	40 fit		direction
					17. NEARES			ted Yes Ty			unecuun
	100 X1						unpon comp				
	W 1 - W 3 17 140 .	4 0 to 400			18. PUMP:	Date Installed	:		Not installed	V	
					Mfr. Name		I anoth of do-	Model No.:	A Consoit.		
					H.P	Volts Submersible	_ Length of drop ☐ Jet (sha		ft. Capacity Turbine		gpm
8 77.						Jet (deep)	☐Recipro		☐Centrifu		
					19. WELL DR	ILLER:		CERT. NO.:	934		
					Address:	2485 Watson					
Indiant Mr.	tor Doning 7	61-			-	Elgin, SC 290	J45				
	iter Bearing Zoi nd sheet if nee										
5. REMARKS				-	Telephone	No.:	(803)438-1331				
								FICATION: This	well was drilled	under	my
					direction and t	his report is tre	ue to the best of	my knowledge ar	nd belief.		30 (8
					990,400	Λ					
					10	V M	61				60 60
					Signed: //	byn /	askey	_ Date:	12/27/2006		
					Authoria	zed/Representative	0				



1. WELL OW	NER INFORMA	\TiON:			6. PERMIT NU	IMBER:	877	à				
Name:	Palmetto Er	nvironment	al Group, Inc	C.	AVAIDATE AVA							
A 44	P. O. Box 4	(last)	1	(first)	7. USE:							
Address:	F. U. DUX 4	- <u>C</u> 1			7. USE: □Resider	ntial	□ Public S	עוממע	⊘ lo.	rocess		
City	Flain	State:	sc z	Zip:29045	☐ Resider	100-20-20-0	☐ Air Cond	N7718000 00000		nocess mergency	1	
City:	Elgin :	State:	JU .	دب40دع.	☐ Test W		☐ Monitoria			eplaceme		
Telephone: V	Vork:		Home:		8. WELL DEP			Date Started:				2006
	N OF WELL:]	,p.o.co				,		
Name:		a prima amana	ud's Chevror	n/Site	4	45	_ ft.	Date Complet	ed:	1	2/15/:	2006
Street Adds			or St./1600 To		9.		□Jetted		☑ Bo			
_		•	-	1000	□Dug		☐Air Rota	ıy	□Di	riven		
City:	Columbia, S	SC	Zip:		☐Cable 1		☐Other					
	Richland		127		10. CASING:	☐ Threaded						
Latitude:	34°00.77				Diam.:	\	<u>1"</u>	Height: Above				
3. SYSTEM N	NAME:	SYSTEM NUM	WBER:	100	Туре:	PVC		Surface				
						☐ Steel	Other	Weight	_	 -	20	
4. CUTTING	SAMPLES:	☐ Yes	☑ No		0			Drive Shoe?	☐ Yes	s L	Z No	2
	186	2000-00 dol.0000				in. to	feet depth	<u></u>				-
Geophysic	al Logs:	☐ Yes	r r	Depth to	11. SCREEN Type:	PVC		Diam.:	∆ n			
For	mation Descrip	tion	Thickness of	Depth to Bottom of	Slot/Gauge			Length:	20'	2 10 10 10 10 10 10 10 10 10 10 10 10 10		-
, ,,			Stratum	Stratum	Set Betwee		ft. and 10	ft.	7-22-1-22-23			- !
D-4#	Movem electric	cond	974	771	0:	umle .	ft. and	ft.	ro).		_	a v-
red/t	prown clayey	30110	27'	27'	Sieve Anal	yeis (ATER I FVFI	Yes	s (please enclo	oc)			No
Yellow to	gray clayey	sand (wet)	18'	45'	İ	TAX SINGS CONTROL TO		ft. below land	surgace after	er 24 hou	rs	0.
							w Land Surface	10 000 000 000 000 000 000 000 000 000		76 Med 80:34		
	3				Pumping 1		hrs. Pumping Yes	s (please enclos	G.P.M. se)		V	/ No
S S S S S S S S S S S S S S S S S S S			<u> </u>	1	Yield:	161		- /Pi-cudo GIIGIO	,	_	<u> </u>	u ,"
					14. WATER C		7 V	D	nok-im	Von		
			 			close lab resul		Bacterial A			io 🗸	
					15. ARTIFICIA	AL FILTER (fil	ter pack)	✓ Yes	☐ No			
			1			rom	44	ft. to Uniformity Co	45	ft.		
	0807		 	* * *	Effective s		✓ Yes	Uniformity Co	emulent			
					✓ Neat C	ement 🛚 S	and Cement 🗆	Concrete	Other		-	
					Depth: Fr	rom	10	fl. to		40 ft.		roedi -
	100 003003		 		- NEAREST	OUNCE OF	F POSSIBLE CON Type well disinfect	ed∏ Yes T	vpe:	– ^{11.} –	— an	rection
<u> </u>				<u></u>			unpon comp		o Amount			
					18. PUMP:	Date Installed			Not ins	talled 🗸]	
	- V 5 5 5		 		Mfr. Name H.P.	Volts	Length of drop	Model No.:	ft. Capac	vitc		gpm
				\		Submersible	Lerigin of drop Jet (sha			urbine		₩
						Jet (deep)	□Recipro	cating		entrifugal		
				1	19. WELL DR	NLLER: 2485 Watson	Robyn Barkley	y CERT. NO.:		934		
					, wureas.	Elgin, SC 29						
Indicate Wa	iter Bearing Zor	nes (Use			1	. = 4005 75	24.0%					
a 2ı	nd sheet if need				1							
5. REMARKS	S:	- <u>10 S</u>	evenuello della compania		Telephone		(803)438-1331 ACTOR'S CERTI		is well	drillod	der	,
							ACTOR'S CERTI rue to the best of a			anneu UN	wet III)	,
					unit							
					h	1 1						
					Signed: 10	by E	rapley	_ Date:	12/27/	2006		
						ized representative	9					
									(0. 100)	VV PO PROMISSO TO V		V.73



1. WELL OW	가게 있었다면 보다는 마다는 사람들이 있다면 하는데 보다를 보고 있다면 하는데 없는데 보다를 보고 있다면 하는데 없는데 보다를 보고 있다면 하는데 없는데 보다를 보고 있다면 하는데 없다면 하는데				6. PERMIT NU	JMBER:	877				
Name:	Palmetto E	nvironment (last)		C. (first)		500,000,000	200000000000000000000000000000000000000	- 10			
Address:	P. O. Box 4	427			7. USE:						
					□Reside	ntial	☐ Public S	upply	Process		1
City:	Elgin	State:	SC	Zip:29045	☐ trrigation	en .	☐ Air Cond	ditioning	☐ Emerge	ncy	33
					☐ Test W	'efi	☐Monitori	ng Well	□Replace	ment	
Telephone: V	Vork:	7/10/2003	Home:		8. WELL DEP	TH (completed	1)	Date Started:		9/28	3/2006
2. LOCATION	OF WELL:	AS-53	***								13
Name:	Handy Pan	try #65/Clo	ud's Chevro	n/Site		45	_ft.	Date Complete		12/15	/2006
Street Add	ress:	2367 Taylo	r St./1600 T	wo Notch	9. □Mud Ro	otary	□Jetted		✓ Bored		
					□Dug		☐Air Rota	ry	□Driven		25
City:	Columbia,	SC	Zip:		☐Cable 1	Fool .	□Other				
COUNTY:	Richland				10. CASING:	☐Threaded	Welded	Ì		10 (0)000	
Latitude:	34°00.77	Longitude:	81°00.97		Diam.:		<u> 1º</u>	Height: Above	/Below		
3. SYSTEM N	IAME:	SYSTEM NUI	MBER:		Type:	☑ PVC	☐ Galvanized	Surface			
	file Company					☐ Steel	☐ Other	Weight			
4. CUTTING	SAMPLES:	☐ Yes	☑ No		0	in. to 45	feet depth	Drive Shoe?	☐ Yes	Ø N	ło
						in. to	feet depth	l .			
Geophysic	at Logs:	☐ Yes	✓ No		11. SCREEN						
			*Thickness of	Depth to	Type:	PVC		Diam.:	4"		
Fon	mation Descrip	otion	Stratum	Bottom of	Slot/Gauge		0 10	Length:	20'		_
				Stratum	Set Betwee	∍n: <u>1</u>	ft. and 10 ft. and	_ ft. ft.			
Red/b	rown clayer	y sand	27'	27'	Sieve Anal	vsis		_ (please enclos	ie)	ł	J No
		10,770		2000		VATER LEVEL					
Yellow to	gray clayey	sand (wet)	18'	45'			/ Land Surface	ft. below land	surgace after 24 h	nours	
					Service of the second contract received		hrs. Pumping		G.P.M.		
					Pumping 7		_ III3. 1 diriping	(please enclos		ı	✓ No
				12	Yield:	(54)					
					14. WATER C		. Von Eff No	Doctorial A	nahmi Van	No.	
· · · · · · · · · · · · · · · · · · ·					Chemical .	Analysis L close lab resuli]Yes ☑ No	Bacterial A	nalysi□ Yes	No	240
						AL FILTER (filt		✓ Yes	☐ No		
		300 - 1 00 000				rom	44	ft. to	45	ft.	
					Effective s	ize OUTED?	✓ Yes	Uniformity Co	efficient		
					VI Neat C	ement DS	and Cement [Other		
					Depth: Fr	om	10	ft. to	40	ft.	****
							POSSIBLE CO				lirection
						T	ype well disinfect unpon comp				
		32.7			18. PUMP:	Date Installed		enour M. 140	Not installed	[J]	
					Mfr. Name	reprinted to the control of the cont		Model No.:			
			2 0 2		H.P	Volts	Length of drop		ft. Capacity		gpm
						Submersible	☐Jet (sha ☐Recipro		☐Turbine	nal	
					19. WELL DR	Jet (deep)	Robyn Barkley		☐Centrifu 934		
	DE CHARLE CO					2485 Watson Etgin, SC 290					
Îndîcate Wa	ter Bearing Zo	nes (Use			1	-3-, 25					
	nd sheet if nee				1						
5. REMARKS):				Telephone		(803)438-1331			525 25	W1954 2000
									is well was drilled	under n	ny
					direction and t	ms report is tn	e to the best of t	my knowledge a	ind belief.		
					gv	1					
					Sim D.	1. n	a bl	Date:	12/27/2006		
					Signed: 100	zed Representative	mercey	Date:	1212112000		
<u> </u>				** ····	1	- Junior Continues					



1. WELL OW	19. 마이트 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				6. PERMIT NU	JMBER:	877			
Name:		nvironment (last)		C. (first)						
Address:	P. O. Box 4	27			7. USE:				Marie 13	1 3 1
					□Reside	ntial	☐ Public S		Process	
City:	Elgin :	State:	SC	Zip:29045	☐trrigatio		☐ Air Cond		☐ Emerge	
					☐ Test W		□Monitorii		□Replace	
Telephone: \			Home:		8. WELL DEP	TH (completed)	Date Started:		9/28/200
	N OF WELL:									401451000
Name:	Handy Pant					<u> 15 </u>	ft.	Date Complet		12/15/200
Street Add	ress:	236/ Taylo	r St./1600 T	WO NOTCH	9. □Mud Ro	otary	☐Jetted ☐Air Rota	ry	☑ Bored □Driven	
City:	Columbia, S	SC	Zip:		☐Cable 1	Fool	☐Other			
COUNTY:	Richland				10. CASING:	☐Threaded	✓ Welded			
Latitude:	34°00.77	Longitude:	81°00.97		Diam.:		1"	Height: Above	e/Below	
3. SYSTEM I	NAME:	SYSTEM NUI	VBER:		Туре:	☑ PVC	☐ Galvanized	Surface		
		5. S. S				☐ Steel	☐ Other	Weight		_
4. CUTTING	SAMPLES:	☐ Yes	✓ No		0	in. to <u>45</u>	feet depth	Drive Shoe?	☐ Yes	✓ No
			Wichigh		L	in. to	feet depth	I		
Geophysic	al Logs:	☐ Yes	☑ No		11. SCREEN				-11	
F-0.	mation Descrip		*Thickness of	Depth to Bottom of		PVC		Diam.: Length:	<u>4"</u> 20'	
FO	rmation Descrip	aon	Stratum	Stratum	Slot/Gauge Set Between		ft. and 10	ft.	20	
					1		ft. and	ft.		
Red/t	brown clayey	sand	27'	27'	Sieve Anal	ysis	☐ Yes	(please enclo	se)	7
Yellow to	gray clayey	sand (wet)	18'	45'	12. STATIC W	ATER LEVEL		ft below land	surgace after 24 l	nours
TOROW to	3.0, 0.0,0,	sana (wor)			13. PUMPING	LEVEL Below	Land Surface	TE COIGHT HERE	ouiguo ono = ;	
					l	ft. after	hrs. Pumping		G.P.M.	<u> 1888</u>
			20 M		Pumping 7 Yield:	Test:	☐ Yes	(please enclos	se)	Ø
					14. WATER O			D-4-7-14		N-[7]
					Chemical / Please en	Analysis Li close lab result	iYes ☑ No s	Bacterial A	ınalysi□ Yes	No.
						AL FILTER (filte		✓ Yes	☐ No	
				10.774		rom	44	ft. to Uniformity Co	45 officient	ft.
					Effective s		✓ Yes	□ No	eniciera	
							and Cement		Other	
					Depth: Fr	om		ft. to	40	
				OW OIL	17. NEAREST		POSSIBLE CON			directi
							unpon compl			
	****				18. PUMP:	Date Installed			Not installed	Ø
					Mfr. Name		1	Model No.:	6 Carreits	
					H.P.	Volts Submersible	_ Length of drop ☐ Jet (sha		ft. Capacity ☐ Turbine	91
	10000 8					Jet (deep)	☐Recipro		☐ Centrifu	
					19. WELL DR	ILLER:	Robyn Barkley	CERT. NO.:	934	
		earn a Bahrit sy see 1000 S.T.C.	A STATE OF THE STA	CONTRACTOR STORES	Address:	2485 Watson Elgin, SC 290	145			
1	ater Bearing Zor				1					
	nd sheet if need	160)	L	-	Tolonhan	No:	/8031/20 1224			
5. REMARKS	3.				Telephone		(803)438-1331 CTOR'S CERTI	FICATION: Th	is well was drilled	under mv
							e to the best of r			
						2				
					h	1	10			
					Signed:	ryn Be	whey	Date:	12/27/2006	
<u> </u>					Authori	29 Representative				



1. WELL OW	NER INFORM	ATION:			6. PERMIT NU	JMBER:	877	\$41 Asc. 101		8	
Name:	Palmetto E	invironment (last)	al Group, In	C. (first)							
Address:	P. O. Box 4	427			7. USE:						
					☐ Reside	ntiai	☐ Public S	upply	✓ Process	Č.	
City:	Elgin	State:	SC	Zip:29045	☐ frrigatio	n	☐ Air Cond	litioning	☐ Emerge	ncy	
1					☐ Test W	ell	☐ Monitorii	ng Well	□Replace	ment	
Telephone: V	Vork:		Home:		8. WELL DEP	TH (completed	1)	Date Started:		9/2	8/2006
2. LOCATION	OF WELL:	AS-55			1						
Name:			ud's Chevro			15	_ ft.	Date Complete		12/1	5/2006
Street Add	ress:	2367 Taylo	or St./1600 T	wo Notch	9. Mud Ro	otary	□Jetted		☑ Bored		
					□Dug		☐Air Rota	гу	□Driven		
City:	Columbia,	SC	Zip:		☐Cable 1	[ool	□Other				31
COUNTY:	Richland				10. CASING:	☐Threaded	Welded			Ac.	
Latitude:	34°00.77	Longitude:	81°00.97		Diam.;		1"	Height: Above/	Below		
3. SYSTEM N	IAME:	SYSTEM NU	MBER:	%	Туре:	☑ PVC	☐ Galvanized	Surface			
	20 000000					☐ Steel	☐ Other	Weight			20
4. CUTTING	SAMPLES:	☐ Yes	✓ No		10	in. to 45	feet depth	Drive Shoe?	☐ Yes	\square	No
						in. to	feet depth				19
Geophysic	al Logs:	☐ Yes	☑ No		11. SCREEN						
			*Thickness of	Depth to	Туре:	PVC		Diam.:	4"		
For	mation Descrip	otion	Stratum	Bottom of	Slot/Gauge			Length:	20'		
		*		Stratum	Set Betwee	en:1	ft. and 10 ft. and	. ft.			3
Red/b	rown clayey	v sand	27'	27'	Sieve Anal	vsis ———		_ it. (please enclos	e)		No No
					12. STATIC W	ATER LEVEL					
Yellow to	gray clayey	sand (wet)	18'	45'				ft. below land s	surgace after 24 h	ours	
					Company to the company of the company		Land Surface hrs. Pumping		G.P.M.		
					Pumping 1			(please enclos			No.
					Yield:						
					14. WATER Q						•
	1 401				Chemical		Yes 🔽 No	Bacterial Ar	ıalysi⊡ Yes	No.	1
				8		close lab result AL FILTER (filte		✓ Yes	□ No		
						om		ft. to	45	ft.	8
					Effective s	ize	• · · · · · · · · · · · · · · · · · · ·	Uniformity Coe	fficient		
					16. WELL GR		✓ Yes	□ No	~* *		
					Depth: Fr		and Cement 10	ft. to	Juner40	Ð	
					17. NEAREST	SOURCE OF	POSSIBLE CON				direction
							ype well disinfect	ed□ Yes Ty	rpe:		
							unpon compl	etion 🔽 No		-	
					18. PUMP: Mfr. Name	Date Installed	·	Model No.:	Not installed	1	
				estable 1940	H.P.	Volts	Length of drop		ft. Capacity	K .	gpm
						Submersible	☐ Jet (sha	llow)	☐Turbine		
						Jet (deep)	□Recipro		☐Centrifu		8
					19. WELL DR	ILLER: 2485 Watson	Robyn Barkley	CERT. NO.:	934		
					Address:	Elgin, SC 290)45				
Indicate Wa	ter Bearing Zo	nes (Use			1		(A)				
	nd sheet if nee				1						j.
5. REMARKS):				Telephone		(803)438-1331				
					E.		CTOR'S CERTI			under	my
					direction and t	nis report is tru	ie to the best of r	ny knowledge a	nd belief.		
						0					
					100	h	a bl	5	40/07/0000		
					Signed: (LO)	zer Representative	more	Date:	12/27/2006		
					Aumona	CON LIGHT ASSETTING	<i>V</i>				



1. WELL OW	WELL OWNER INFORMATION: Name: Palmetto Environmental Group, Inc.				6. PERMIT NU	IMBER:	877			10 to		
Name:	Palmetto E	Environmenta (last)		C. (first)								
Address:	P. O. Box		2		7. USE:					00		
					□Reside		☐ Public S	60000 C. C. C. C. C. C. C. C. C. C. C. C. C.		Process		
City:	Elgin	State:	SC :	Zip:29045	□Irrigatio		☐ Air Cont			1 Emerger		
				TO BOOK TO COLUMN	☐ Test W		□Monitori			1Replace		
Telephone: V			Home:		8. WELL DEP	TH (complete	ed)	Date Started:			9/2	8/2006
2. LOCATION	OF WELL:		1000 ev as				20				120-	
Name:			ud's Chevroi			15	ft	Date Complet			12/1	5/2006
Street Addr	ress:	2367 Taylo	or St./1600 T	wo Notch	9. Mud Ro	otary	☐ Jetted	\$250.00		Bored		
6 "	Cal	66	-1 1.		□ Dug	raa!	☐Air Rota	uy	Ľ]Driven		
	Columbia,	SU	Zip:		☐Cable 1		☐Other					
	Richland	L = c = 11 · ·	04000 07		10. CASING:	⊔ inreaded		Mointe At	s/Dolo			
		Longitude:			Diam.:	Øm.c		Height: Above				
3. SYSTEM N	AME:	SYSTEM NUI	MBER:		Type:	☑ PVC	☐ Galvanized ☐ Other	Surface	5.77 N			
4. CUTTING	SAMDI EQ.	☐ Yes	☑ No		1 ^	☐ Steel		Weight Drive Shoe?		Vec	Ø	No
GOI ING	UNNITLES:	⊔ fes	MO MO		— u	in. to	feet depth	Drive Snoe?	۳	1 CD	Œ	INC
Geophysica	al l one:	☐ Yes	☑ No		11. SCREEN	HI. 10	ieet depth	<u> </u>				
	u, Lugo.	L 162		Depth to		PVC		Diam.:	4"			
For	mation Descrip	otion	Thickness of Stratum	Bottom of	Slot/Gauge	.020		Length:	20'			_
			Stratum	Stratum	Set Betwee		ft. and 10					
Red/h	orown claye	v sand	27'	27'	Sieve Analy	vsis	_ ft. and Yes	_ft. s (please enclo	se)			☑ No
					12. STATIC W		L J ie					P4 140
Yellow to	gray clayey	sand (wet)	18'	45'				ft. below land	surgace	after 24 h	ours	
							w Land Surface hrs. Pumping	was arministrated point in	G.P.N	Ĺ		
			 	-	Pumping T			s (please enclo		rre		No.
					Yield:	money to horizone					-	
					14. WATER Q			Doots:-1 4	\neb-stm	Vac	No	9
	- WEB 1750		 		Chemical / Please end	Analysis close lab resu	□ Yes 🕢 No ⊿its	Bacterial A	-u≀aiySI∐	Yes	No	1
					15. ARTIFICIA	AL FILTER (fi	iter pack)	✓ Yes				
						rom	44	ft. to	45	-	ft.	
			 		Effective s		✓ Yes	Uniformity Co	æmcient			
							Sand Cement	Concrete	Other _			
	100-360,000				Depth: Fro	om	10) ft. to		40		
					17. NEAREST		F POSSIBLE CO			ft.		direction
				1	l —		Type well disinfect unpon comp			unt:		
					18. PUMP:	Date Installe					Z	
				-	Mfr. Name			Model No.:				
				1	H.P.	Volts Submersible	Length of drop ☐ Jet (sha		_ ft. Cap	pacity Turbine		gpm
						Jet (deep)	∐Jet (sna ∐Recipro			_i i urbine ∃Centrifug	jai	
					19. WELL DR	ILLER:	Robyn Barkley		-	934		9
					Address:	2485 Watson Elgin, SC 29						S.
Îndicate Wa	ter Bearing Zo	nes (Use			1	-w, 00 2						
	nd sheet if nee			1								
5. REMARKS	i :				Telephone		(803)438-1331					
170							RACTOR'S CERTI				under	my
					girection and t	uns report is t	rue to the best of I	my knowledge	anu Delie	Tie		10.
					1.	1						8
					Signed: R	12 12	arhlen-	Date:	19/9	27/2006		14
						zer Representativ	19		1414	_,,_,,000		
			-,		1	<u> </u>						



1. WELL (WNER INFORM	MATION:			6. PERMIT NU	IMBER:	877					
Name:	Palmetto E	Environment										
		(last)	177	(first)								
Address	: P.O. Box	427			7. USE:		5		F20			
12.00		120	1202		□Reside		☐ Public S		Proces			
City:	Elgin	State:	SC	Zip:29045	□Irrigatio		☐ Air Cond		□ Emerge			
					☐ Test W		□Monitori		☐ Replace		0.000	~~
Telephone			Home:		8. WELL DEP	TH (completed	1)	Date Started:		9/2	8/20	UÖ
	ION OF WELL:					.V_			00 4 557	4014	FIRE	^~
Name:	- A. S. S. S. S. S. S. S. S. S. S. S. S. S.	ntry #65/Clo			THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED I	15	_ ft.	Date Complete	the state of the s	12/1	5/20	UO
Street A	ddress:	2367 Taylo	r St./1600 T	wo Notch	9. Mud Ro	otary	□Jetted		☑ Bored			9000
		00	<u> </u>		□Dug	FL _8	☐Air Rota	ry .	□Driven			
City:	Columbia,	SC	Zip:		☐Cable 1		Other					
	Y: Richland		n.(One		10. CASING:	LJ Threaded	Welded					0.000
Latitude			- tu-tu-		Diam.:		1"	Height: Above/				
3. SYSTE	M NAME:	SYSTEM NU	MBER:		Type:	PVC	☐ Galvanized	3 - 33 - 33				
						☐ Steel	Other	Weight		- ₍	22	3
4. CUTTIN	IG SAMPLES:	☐ Yes	✓ No		0			Drive Shoe?	☐ Yes	∇	No	9
			_			in. to	feet depth	L				
Geophy	sical Logs:	☐ Yes	☑ No		11. SCREEN	D) (O		Diam	A ^m			
1	Formation Descr	intion	*Thickness of	Depth to Bottom of	Type: Stot/Gauge	PVC .020		Diam.: Length:	4" 20'		-	
	omaton Descr	hunı	Stratum	Stratum	Set Between		ft and 10	ft.				
	20.436		200		1		ft. and	ft.				1
Re	d/brown claye	y sand	27'	27'	Sieve Anal			(please enclos	e)		V	No
Vellow	o aray claves	reand fund	18'	45'	12. STATIC W	ATER LEVEL		A below lead o	surgace after 24	houre		
I CHOAA	to gray clayey	Salin (MC!)	10	40	13. PUMPING	LEVEL Below	/ Land Surface	IL DEIDM ISHU S	surgace alter 24	nouls		
							_hrs. Pumping		G.P.M.			
		7 10 20 21 21			Pumping 7			(please enclos	e)			No
					Yield:	MINI PERI						
					14. WATER C		Yes 🔽 No	Bacterial Ar	nalysi⊡ Yes	No	a	
						close lab resuli	ps 1.es M⊼Iu∩	Dadena A	10150E 162	. 101	4	
	29,500,000				15. ARTIFICIA	AL FILTER (filt)	er pack)	✓ Yes	□ No			
					Installed fr	om	44	ft. to	45	ft.		
					Effective s	ize OUTED?	Von	Uniformity Cos	mcient			-
					Neat C	ement DS:	✓ Yes and Cement □		Other			
					Depth: Fr			ft. to	4() ft.		1
					17. NEAREST		POSSIBLE CO			L	direc	tion
	920208			mm 10.00 m - 61	l —	T	ype well disinfect				1000	-
					18. PUMP:	Date Installed	unpon comp	etion 🗹 No	Amount: Not installed	(7)		
					Wifr. Name			Model No.:		لک		_ 1
	100	3 1 31 31 3			H.P	Volts	Length of drop	pipe	ft. Capacity			pm
					100 100 100 100 100 100 100 100 100 100	Submersible	□Jet (sha	500 St. (1985)	Turbine			
					19. WELL DR	Jet (deep)	☐Recipro Robyn Barkley		☐Centrifi 93		S ENERGY	
				797		2485 Watson		JEILI. HV	33	•		
]	Elgin, SC 290						
Indicate	Water Bearing Z	ones (Use			7	1689 1890						
	a 2nd sheet if ne	eded)			1		SERVICE SERVICE SERVICES					
5. REMAR	RKS:				Telephone		(803)438-1331	FOATION TO		- مادور ر		
							ACTOR'S CERTI ue to the best of r			under	шу	
					Carecuon and	ada ichoit ia fit	TO THE DEST OF I	ny ratomicuge a	, a posti.			
					l n	1	1					
					Signed:	las 1	Berblen	Date:	12/27/2006	3		
						zed pepresentative			,			
										10		



4 14(=1 1 6)	NEO 11170	ATION					- N				
	NER INFORM				6. PERMIT NU	JMBER:	877				
Name:		(last)	al Group, In	C. (first)		Moreover	1				
Address:	P. O. Box	427			7. USE:	0.00					
					□Reside	ntial	☐ Public S	upply	✓ Process		
City:	Elgin	State:	sc	Zip:29045	□Irrigatio	n	☐ Air Cond	ditioning	□Emerge	ncy	
					☐Test W		☐ Monitori		☐ Replace		
Telephone: V		1800	Home:		8. WELL DEP	TH (completed		Date Started:			8/2006
2. LOCATION	N OF WELL:				l						
Name:	Handy Par	try #65/Clo	ud's Chevro	n/Site		15	ft.	Date Complet		12/1	5/2006
Street Add	ress:	2367 Taylo	or St./1600 T	wo Notch	9. Mud Ro	otary	□Jetted		✓ Bored		
					□Dug		☐Air Rota	ry	□Driven		1
City:	Columbia,	SC	Zip:		☐Cable 1	roof	□Other		3		
COUNTY:	Richland				10. CASING:	☐Threaded	Welded				
Latitude:	34°00.77	Longitude:	81°00.97		Diam.:		1"	Height: Above	:/Below		
3. SYSTEM N		SYSTEM NU			Type:	☑ PVC	☐ Galvanized	Surface			
					1 -	☐ Steel	☐ Other	Weight	1000 TO		
4. CUTTING	SAMPLES:	☐ Yes	✓ No		1 o	in. to 45	feet depth	Drive Shoe?		\square	No
						in. to	feet depth				
Geophysic	al Logs:	☐ Yes	☑ No		11. SCREEN		*******	1			
			a management of	Depth to	Туре:	PVC		Diam.:	4"		'
For	mation Descrip	otion	Thickness of Stratum	Bottom of	Slot/Gauge			Length:	20'		
			Orallan	Stratum	Set Betwee	en: <u>1</u>	ft. and10	ft. Tr			
Red/h	orown claye	v sand	27'	27'	Sieve Anal	weie	ft. and	_ it. i (please enclo:	(as		No.
	word oray o	7 00110				ATER LEVEL		(picase crisis			W I II
Yellow to	gray clayey	sand (wet)	18'	45'				ft. below land	surgace after 24 h	ours	
		232300000 20					Land Surface			11455-11451111	
					Pumping 1		hrs. Pumping	(please enclo	G.P.M.		D No
					Yield:	est.	T 160	(piease endo	se)		☑ No
	100 W.W. 20				14. WATER C	UALITY				174	
					Chemical /		Yes 🔽 No	Bacterial A	ınalysi□ Yes	No	1
					15. ARTIFICIA	close lab result	s er nack)	✓ Yes	□ No		
				G37; G363.3 . 0	Installed fr	om	44	ft. to	45	ft.	
		ng.			Effective s	ize		Uniformity Co	efficient		
					16. WELL GR	OUTED?	✓ Yes	□ No	Oth		
					Depth: Fr		and Cement ☐	ft. to	Otner40	a	
					17. NEAREST	SOURCE OF	POSSIBLE CO	NTAMINATION	: ft.		direction
22.764 	- Ar - 10000				1		pe well disinfect	ed□ Yes T	ype:		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
						-	unpon comp	etion 🔽 No			
					18. PUMP: Mfr. Name	Date Installed:	•	Model No.:	Not installed	4	
					H.P.	Volts	Length of drop		ft. Capacity	W. B	gpm
						Submersible	Jet (sha		☐Turbine		
						Jet (deep)	□Recipro		☐Centrifu		
					19. WELL DR	ILLER: 2485 Watson	Robyn Barkley	CERT. NO.:	934		
		1			Audress:	Elgin, SC 290	145				
Indicate Wa	ter Bearing Zo	nes (Use		- 10	1						
	nd sheet if nee				1						
5. REMARKS	3:				Telephone		(803)438-1331				
					A Company of war filters and the comment of the com				is well was drilled	under	my
					direction and t	nis report is tru	e to the best of r	ny knowledge a	and belief.		
						Λ					
					10	1 1	Bulla -	Deter	12/27/2006		
					Signed: //	zed Representative	millery	_ Date:	1212112000		
					i nusion,	The property of					



4 1445	100 L				A DEPARTMENT	MACC	077				
1. WELL OW Name:	NER INFORMAT Palmetto Env		al Group Inc		6. PERMIT NU	WBEK:	877				
	(la	est)		(first)			察 勁 居 胡				e
Address:	P. O. Box 42			0.5	7. USE:		_	words to a state of the	<u> </u>		Control of the Contro
					□Resider		☐ Public S		Proce		9
City:	Elgin St	rate:	SC 2	Zip:29045	☐ Irrigation		☐ Air Cond		□Emerg	A 11152 - 3400 - 27	
					☐ Test We		Monitorii		□Repla		00/000
Telephone: V			Home:		8. WELL DEP	TH (completed))	Date Started:		9/2	28/2006
	Service and a service service of the service service of the service se	W-1	idle Charman	1016		35	_ft.	Data Complet	ed:	19/4	15/2006
Name:	Handy Pantry		ud's Chevror or St./1600 Tv		9. □Mud Ro		_π. □Jetted	Date Complet	ted: Bored		, 5,2000
Street Add	11 USS. Z.	JUT TRAYIO	7 JUI 1000 I	WO INDICH	Dug	rial y	☐Air Rota	rv	□Driver		
City:	Columbia, SC	2	Zip:		☐ ☐ Cable T	'ool	□ Other	35		n/42	
COUNTY	Richland		#0.2 H ∪ ■ CM.Z/		10. CASING:		Welded			,	
Latitude:	34° 00.77	ngitude: R	7000.97	•	Diam.:		2"	Height: Above	∌/Below		
3. SYSTEM A	NAME: S	YSTEM NUM	VIBER:		See the second s	☑ PVC		A STATE OF THE STA			
-					1	☐ Steel	Other	Weight			
4. CUTTING	SAMPLES:	☐ Yes	√Z No		0	in. to <u>25</u>		Drive Shoe?	☐ Yes	\square	No
			ggr. mans			in. to	feet depth	<u>L</u>			
Geophysic	al Logs:	☐ Yes	✓ No		11. SCREEN	DI/C		DI	0 11		
Fa-	rmation Description	in T	*Thickness of	Depth to Bottom of	Type: Slot/Gauge	: .020		Diam.: Length:	2" 10'		
roi	madon Descripat	41	Stratum	Stratum	Set Betwee		ft. and35				
					1		ft. and	_ft.			- 1029 C
Red/t	prown clayey s	sand	35	35	Sieve Analy	SIS		(please enclos	se)		✓ No
					IL STATIC W	AIER LEVEL		ft. below land	surgace after 24	4 hours	
	////			- 10		LEVEL Below					
		3					hrs. Pumping	(nlana - 1	G.P.M.		ra N∈
			ļ l		Pumping T Yield:	est:	☐ Yes	s (please enclo	136)		☑ No
			 		14. WATER Q						_
			<u> </u>		Chemical /		Yes 🕢 No	Bacterial A	Analysi□ Yes	No	
		normando en 2005 de Su			Please end	close lab result:	er pack)	✓ Yes	□ No		
			1	A 1. Western appearance	Installed from		24	ft. to	35	ft.	
			<u> </u>		Effective si			Uniformity Co	pefficient		
			1		16. WELL GR		✓ Yes and Cement □	☐ No Concrete ☐	Other		
			 		Depth: Fro	om) ft. to	2	24 ft.	
	 					SOURCE OF	POSSIBLE CO	NTAMINATION	4:	ft	direction
						<i>1</i>)	ype well disinfect unpon compl		Type: o Amount:		
			 		18. PUMP:	Date Installed:			Not installe	d 🛂	-
	·				Mfr. Name	1		Model No.:			
						Volts Submersible	Length of drop ☐Jet (sha		ft. Capacity	10	gpm
			 			Jet (deep)	☐Jet (sna ☐Recipro		☐ Centr		<u> </u>
					19. WELL DR	ILLER:	Robyn Barkley			34	
pological software the software		economic Policy (G		population with the second section of the second se	Address:	2485 Watson Elgin, SC 290	W5				
*Indicate \A/-	ater Bearing Zone	s (Use	 		1	LIGHT, OU ZOL	A-0				
	ater Bearing Zone and sheet if neede		Į 1								
5. REMARKS					Telephone		(803)438-1331				
					20. WATER W	ELL CONTRA	CTOR'S CERTI			ed under	my
					girection and t	nis report is tru	e to the best of r	my knowledge	and Delief.		
					n	1 -	10				
					Signed: 16	In B	arhlon	Date:	12/27/200	16	<u> </u>
						zed Representative					
- 2						<u> </u>				1 (8	



1. WELL OW	NER INFORM			6. PERMIT NU	MBER:	877				9	
Name:	Palmetto E	invironment (last)	al Group, Ind	C. (first)					7 9 F X		
Address:	P. O. Box			70 1970	7. USE:				OFFSHAM		
NECONO (PARES CONTROL P CAP TO S					Resider	ntial	☐ Public Si	upply	✓ Process		
City:	Elgin	State:	SC :	Zip:29045	☐ Irrigation	n	☐ Air Cond	100	□Emerge		
				The second secon	☐ Test We	el1	☐Monitorii	ng Well	□Replace	- Interesting	
Telephone: \			Home:		8. WELL DEP	TH (completed)	Date Started:		9/28	3/2006
2. LOCATIO	N OF WELL:							distribute transmission barrens		,,,,,	10000
Name:	()		ud's Chevroi			5	<u>_ ft</u>	Date Complete		12/15	/2006
Street Add	ress:	2367 Taylo	r St./1600 T	wo Notch	9. Mud Ro	tary	☐Jetted		☑ Bored		
O.1-	O-l	66	-		□Dug	'aal	□Air Rotal □Other	ry	□Driven		
City:	Columbia, Richland	5 C	Zip:		☐Cable T		✓Welded				
COUNTY:	34°00,17	Lameltonia, O	1000 97		0.00000	□ Inreaded	2"	Height: Above	/Relow		
3. SYSTEM	NAME:	SYSTEM NUI			Diam.:	☑ PVC	∠ Galvanized		/Deluw		
3. 315 IEM	MAINE:	OTOIEM NUI	NDER:		Туре:	□ Steel	☐ Other	Weight			
4. CUTTING	SAMDI ES.	☐ Yes	☑ No		1 0			Drive Shoe?		_ 20 N	No
T. 001 11110	orum EEO.	⊔ 168	4T 140			in. to	feet depth	Dillo Olloo!		1	
Geophysic	al Loos:	☐ Yes	☑ No		11. SCREEN						
Soprification	a			Depth to	Type:	PVC		Diam.:	2" 10'		
For	rmation Descrip	ption	*Thickness of Stratum	Bottom of	Slot/Gauge			Length:	10'		
			Oubluit	Stratum	Set Betwee	n: <u>25</u>	ft. and <u>35</u> ft. and	. ft. ft.			
Red/l	brown claye	v sand	35	35	Sieve Analy	vsis		_ it. (please enclos	se)	ĺ	✓ No
		4			12. STATIC W				200 D0000000 0000	-36%(Win)	
					42 DIMERINA	TEVEL DAL	I and Curface	ft. below land	surgace after 24	hours	
							Land Surface hrs. Pumping		G.P.M.		
					Pumping T			(please enclos	200 miles (100 miles)		☑ No
					Yield:			Sales was trait			
					14. WATER Q		Yes 🔽 No	Bacterial A	nalvsi⊟ Yes	No.	
-	- 9				Chemical / Please end	Analysis close lab result		Dackellal A	idiyaiLi 168	IAO[A]	
		9			15. ARTIFICIA	L FILTER (filt	er pack)	✓ Yes	□ No		
	9	8 8 6 8 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Installed fr	om	24	ft. to	35	ft.	
				,	Effective s		✓ Yes	Uniformity Co	emcient		
ł							and Cement 🖂		Other		
	10 0				Depth: Fro	om	0	ft. to	24	1 ft.	
	4				17. NEAREST		POSSIBLE COM ype well disinfect			L (direction
[-		ype well disinfect unpon comp				
	* * # 15a				18. PUMP:	Date Installed		DE TOTO DE TOT	Not installed	Z	
					Mfr. Name		1	Model No.:	8 Cait-		
l					H.P.	Volts Submersible	_ Length of drop ☐ Jet (sha		_ ft. Capacity ☐Turbine		gpm
		All.				Jet (deep)	☐Recipro		☐ Centrife		
					19. WELL DR	ILLER:	Robyn Barkley	CERT. NO.:	93	4	
					Address:	2485 Watson Elgin, SC 290	745				
*Indicate VA	ater Bearing Zo	nes (Use			1	Ligit, 30 290	J-10				
	ater bearing 20 and sheet if nee		.								
5. REMARK			L		Telephone		(803)438-1331				
									is well was drilled	d under n	ny
ļ					direction and t	his report is tru	ue to the best of I	ny knowledge a	and belief.		
						1					
					17	12	a blow	Data	12/27/2006	2	
					Signed: ///	zed Representative	moven	Date:	1212112000		
L		F %				700000000000000000000000000000000000000					



1. WELL OW	NER INFORM	ATION:	***		6. PERMIT NU	IMBER:	877				
Name:	Palmetto E	nvironment (last)	al Group, Inc	C. (first)		477.00	1-20-20-20-20-20-20-20-20-20-20-20-20-20-		2012 DOM: 00.00		
Address:	P. O. Box 4				7. USE:	******					
					Resider	ntial	☐ Public S	iupply	Proce	SS	
City:	Elgin	State:	SC	Zip:29045	☐ Irrigatio	n	☐ Air Cond	ditioning	□Emer	gency	
	3. - 3			•	☐ Test We	ell	□Monitori	ng Welt	□Repla	cement	
Telephone: \	Nork:		Home:		8. WELL DEP	TH (completed))	Date Started:		9/2	8/2006
2. LOCATIO	N OF WELL:	RW-3									
Name:	Handy Pan	try #65/Clo	ud's Chevroi	n/Site	3	15	ft.	Date Comple	ted:	12/1	5/2006
Street Add	ress:	2367 Taylo	r St./1600 T	wo Notch	9. Mud Ro	itary	□Jetted		✓ Bored		
e		-			□Dug		□Air Rota	ıry	□Driver	1	
City:	Columbia,	SC	Zip:		☐Cable T	ool	□Other			791	
COUNTY:	Richland		A		10. CASING:	☐Threaded	Welded				
لة: Latitude	34°00.77	Longitude: 8	100.97		Diam.:		2"	Height: Above	e/Below		
3. SYSTEM N		SYSTEM NU			Type:	☑ PVC	☐ Galvanized	Surface		•:	
Ē.						☐ Steel	☐ Other	Weight			
4. CUTTING	SAMPLES:	☐ Yes	✓ No		1 <u> </u>	in. to 25	feet depth	Drive Shoe?	☐ Yes	V	No
						in. to	feet depth				
Geophysic	al Logs:	☐ Yes	☑ No		11. SCREEN	Maria Watata		Market B. Age	All seconds		
74-2	2 20 3		*Thickness of	Depth to		PVC		Diam.:	2"	Marie IV	
For	mation Descrip	otion	Stratum	Bottom of	Slot/Gauge			Length:	10'		
			Outlan	Stratum	Set Betwee	en: <u>25</u>	ft. and35_	_ ft. _ ft.			
Red/b	prown claye	sand	35	35	Sieve Analy		ft. and	_ it. s (please enclo	ise)		☑ No
71007	oroun dayo	Conta			12. STATIC W	ATER LEVEL	<u> </u>	(picaso crioro			W NO
								ft. below land	surgace after 24	4 hours	
				-	13. PUMPING				0 1 1		
·							hrs. Pumping	(aloono onolo	G.P.M.		IZI No
					Pumping T Yield:	est.		s (please enclo	150)		☑ No
					14. WATER Q	UALITY				-	
					Chemical /	Analysis 🛚	Yes 🔽 No	Bacterial A	Analysi⊟ Yes	No	2
						close lab result		Tal V			
					15. ARTIFICIA	NL FIL I EK (TIRE OM	зграск) 24	Yes ft. to	□ No 35	ft.	
		8			Effective s	-	27	Uniformity Co		14.	
					16. WELL GR	OUTED?	✓ Yes	□ No			
	·						nd Cement		Other		
		8	V 45387 LLL 1009 1813.		Depth: Fro	om		ft. to		4 ft.	41
					17. NEAKES!		POSSIBLE COI pe well disinfect			п	direction
					\$4 W		unpon comp				
					18. PUMP:	Date Installed:			Not installe	d Z	
			a wa watenga panta		Mfr. Name			Model No.:			
						Volts	Length of drop		ft. Capacity ☐Turbir		gpm
-						Submersible Jet (deep)	□Jet (sha □Recipro		☐ Centri		
					19. WELL DR		Robyn Barkley			34	7/12
		***************************************			Address:	2485 Watson					
					-	Elgin, SC 290	45				
	ter Bearing Zo										
	nd sheet if nee	aed)			4	81	(000)400 4004				
5. REMARKS	5 :				Telephone		(803)438-1331 CTOR'S CERTI		nis well was drille	ad jundar	mv
							e to the best of i			a under	y
ē								,			
					1 4	0 ,	1 0				
					Signed:	12	arblem	_ Date:	12/27/200	16	Leave trace
ę.					Authoriz	reg/Representative	7		1 and 6 1 / 6 0 V	·	
L					\$ 10 to 10 to	//			*		



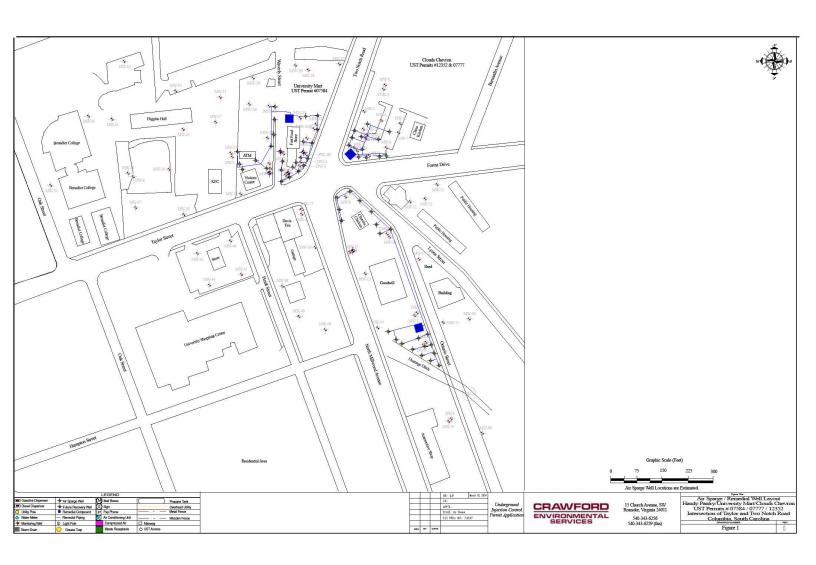
1. WELL OW	8 42 - 19 12 12 12 12 12 12 12 12 12 12 12 12 12				6. PERMIT NU	MBER:	877	3,68 6,60 10 33		
Name:	Name: Palmetto Environmental Group, Inc. (last) (first									49500 251 5 50
Address:	P. O. Box 42	27		# B	7. USE:				50-00-0	
					Resider	ntial	☐ Public S	upply	✓ Process	I
City:	Elgin S	State:	SC	Zip:29045	☐ Irrigatio	n	☐ Air Cond	litioning	□ Emerge	ncy
					☐ Test We	ell	☐ Monitori	ng Well	☐ Replace	
Telephone: V	Nork:		Home:	200	8. WELL DEP	TH (completed)	Date Started:		9/28/200
2. LOCATION	N OF WELL: F	RW-4		**						
Name:	Handy Panti	ry #65/Clo	ud's Chevro	n/Site		5	ft.	Date Complete		12/15/200
Street Add	ress: 2	2367 Taylo	r St./1600 T	wo Notch	9. Mud Ro	tary	□Jetted		✓ Bored	
					□Dug		☐Air Rota	гу	□Driven	
City:	Columbia, S	C	Zip:		☐Cable T		□Other			
COUNTY:	Richland	-		_	10. CASING:	☐ Threaded	Welded			
Latitude: 5	34°00.77 L	ongitude: 8	1 00.9		Diam.:		2"	Height: Above		
3. SYSTEM N	NAME: S	SYSTEM NUI	MBER:		Type:	☑ PVC	☐ Galvanized	The second secon		
					•	☐ Steel	☐ Other	Weight		
4. CUTTING	SAMPLES:	☐ Yes	☑ No		0	in. to <u>25</u>	Sept. Sept.	Drive Shoe?	☐ Yes	✓ No
124 697			-			in. to	feet depth			
Geophysic	al Logs:	☐ Yes	☑ No		11. SCREEN				OII	
For	matian Descripti	lam.	*Thickness of	Depth to Bottom of		PVC .020		Diam.: Length:	10'	
FOI	mation Descripti	ION	Stratum	Stratum	Slot/Gauge Set Betwee		ft. and35	ft.	10	
***************************************				Oddian	1 00, 20,,,,,		ft. and	n.		
Red/b	prown clayey	sand	35	35	Sieve Analy			(please enclos	se)	N N
		-17.02/98 -100: 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		12. STATIC W	ATER LEVEL		& boloviland	surgace after 24 l	haura
·					13. PUMPING	LEVEL Below	Land Surface	It. Delow land	surgace after 24 i	iours
							hrs. Pumping		G.P.M.	
	. 13-10-4				Pumping T	est:	☐ Yes	(please enclos	se)	☑ N
	· · · · · · · · · · · · · · · · · · ·				Yield:	MAT NEW				
9					14. WATER Q Chemical		Yes 🗸 No	Bacterial A	nalvsl⊟ Yes	No.
					Please end	lose lab result	s			
					15. ARTIFICIA			✓ Yes	□ No	237
			sk			om	24	ft. to Uniformity Cod	35	ft.
	,		-		Effective s		Yes	□ No	enicient	
							nd Cement □		Other	
					Depth: Fro			ft. to		ft.
					17. NEAREST		POSSIBLE CON			directio
S 6'					**	^	pe well disinfect unpon compl			
					18. PUMP:	Date Installed:		<u> </u>	Not installed	Z
					Mfr. Name			Model No.:		
3						Volts Submersible	Length of drop ☐ Jet (sha		_ ft. Capacity ☐Turbine	gpr
				20 20 20 20 20 20		Submersible Jet (deep)	∐Jet (sna ∐Recipro	1983 04 5 0	☐ centrifu	
	_				19. WELL DR		Robyn Barkley		934	
					Address:	2485 Watson Elgin, SC 290	145			
Indicate Wa	iter Bearing Zone	es (Use			1					
7,000	nd sheet if need	- 10 IS								
5. REMARKS	S:	30,540,000	1974		Telephone		(803)438-1331			
									is well was drilled	under my
ë ë					ulrection and t	nis report is tru	e to the best of r	ny knowiedge a	uiu delief.	
					1 10	1	20			
					Signadi Wal	12	arklen	Date:	12/27/2006	
					Signed: 100	ed Representative	- July	Date	IZIZIIZUUU	
					1	7.1.5.5.5.				

			A S	OR.:DJF CK.:CJP APP'D.: CALE: N. ES PROJ. NO.		- U - Appi	ЛС lication	ENVIRONN	MENTAL CES	Proposed Handy F Intersection Co	DRAWING TITLE d Well Construction Pantry # 65 / Cloud to of Taylor ST. & Clumbia, South Ca	
REV BY	DATE		1.5					15 Church Avenue, SW Roanoke, Virginia 24011	540-343-6256 540-343-6259 (fax)		DRAWING NUMBER	O
Depth (feet)	Sample ID	Blows	Rec/Adv (in)	Old (mdd)	Water Table	Lithology		Geologic Descriptio	n	Ground Surface	Well Diagram	
5 —							Asphalt su	rface cover.		W. PVC Riser		55
20 —										(15.0) 0.010		20
30-										ļ		30

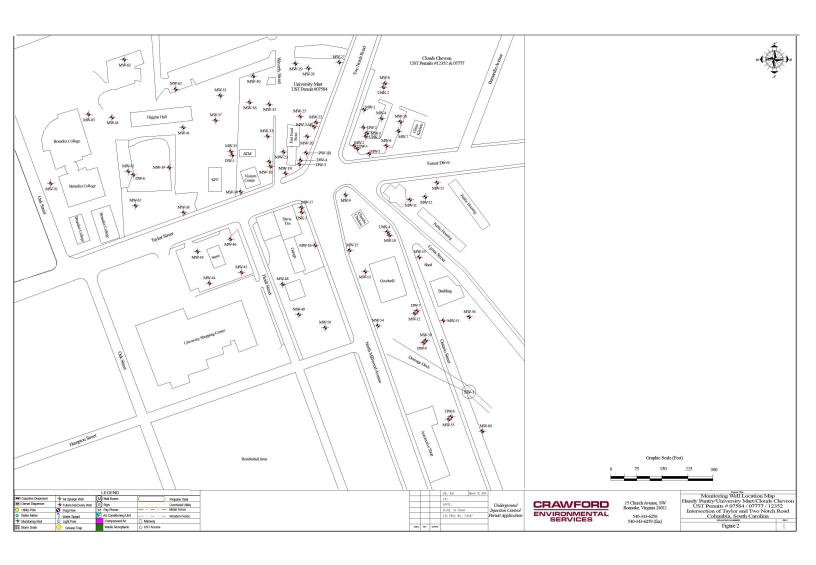
Appendix B

Figures

Figures 1
Existing / Proposed Injection Points



Figures 2 Monitoring Well Location Map

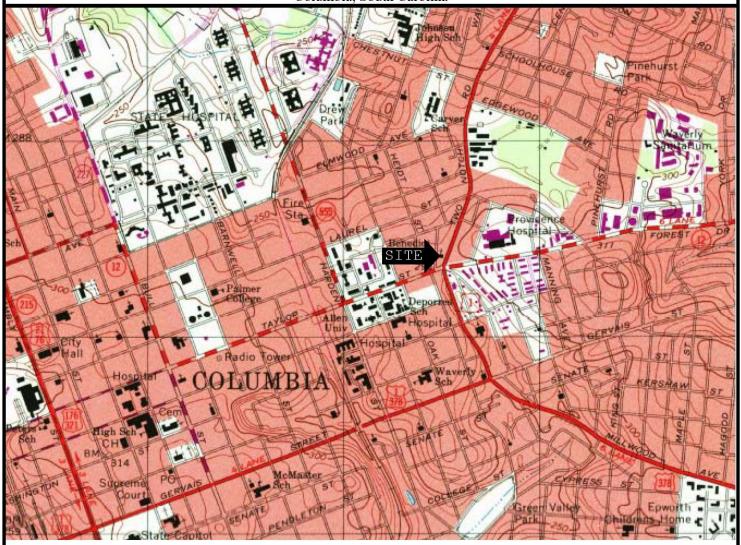


Figures 3

1/4 Mile Search Radius / Topographic Map

FIGURE 3

1/4 Mile Search Radius / Topographic Map Handy Pantry #65 / University Mart / Clouds Chevron Intersection of Taylor Street and Two Notch Road Columbia, South Carolina



CRAWFORD ENVIRONMENTAL SERVICES

15 Church Avenue, SW Roanoke Virginia, 24011

540-343-6256 (office) 540-343-6259 (fax)

NORTH COLUMBIA, SOUTH CAROLINA

Source: U.S.G.S. Topographic Map of the Columbia North Quadrangle, Virginia,

7.5 Minute Series (1977, revised 1988) Scale: 1:24,000 Contour Interval: 20 Feet

Vertical Datum: National Geodetic Vertical Datum 1929

Horizontal Datum: North American Datum1927

Project: Underground Injection Control Permit Application

Client: SCDHEC

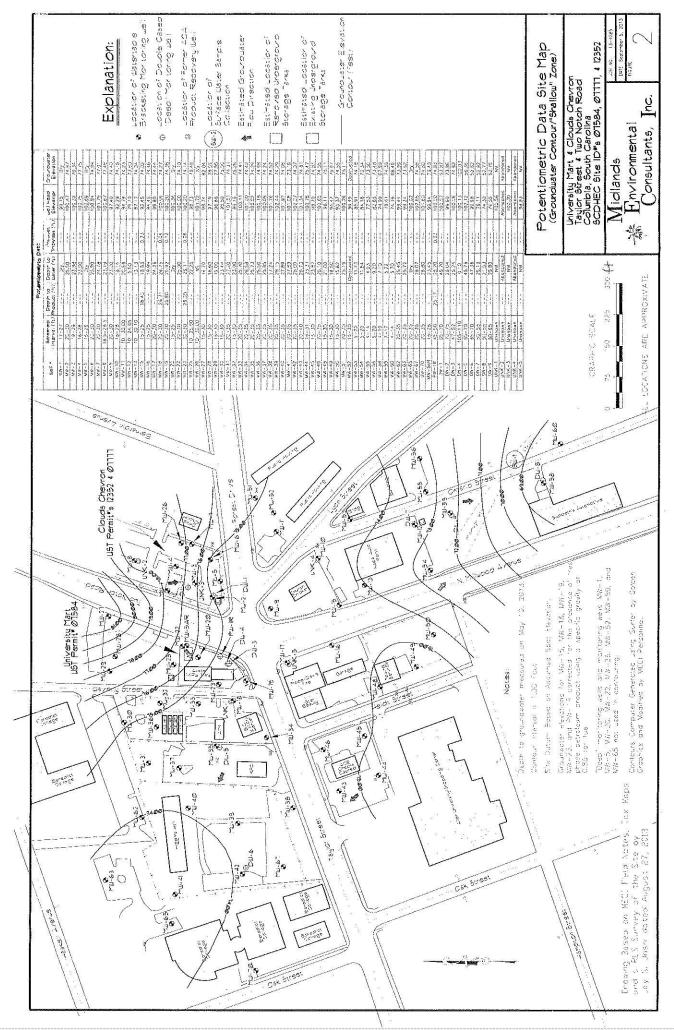
CES Job #: 7.0547



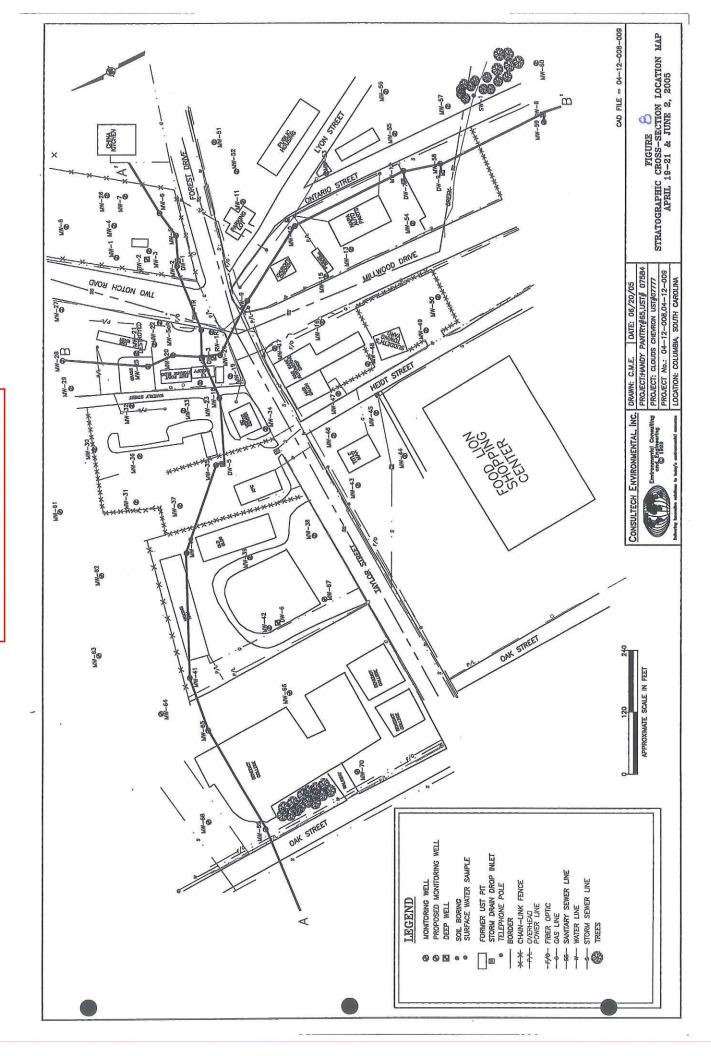
Latitude: 034"00'42.72"N Longitude: 081"01'00.13"W

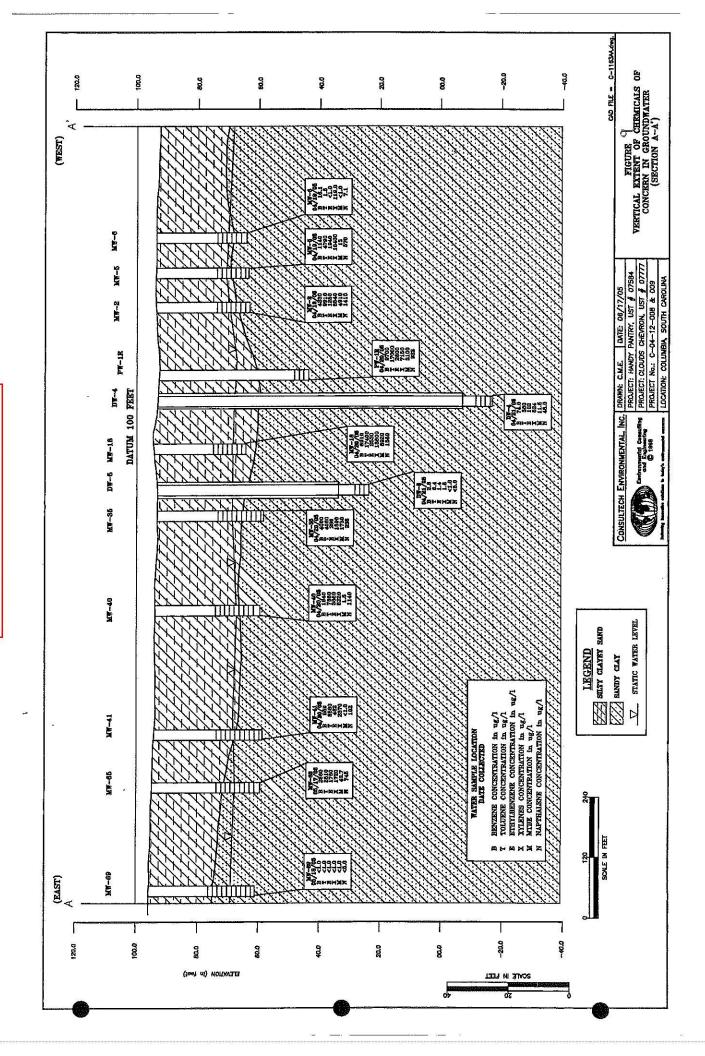
Figures 4 Potentiometric Surface Map

Figure 4 - Potentiometric Surface Map



Figures 5 / 6
Geologic Cross Sections





Appendix C

Material Data Safety Sheets



6635 NE 59th Place Portland, Oregon 97218 (971) 222-3903 Fax www.etecllc.com

Material Safety Data Sheet

Revision Date: 09/30/2010

Section 1: Product and Company Identification

Product Name: PetroSolv/EZT-EATM

MSDS Number: 016 Chemical Name: Mixture

Chemical Family: Ethoxylated surfactant mixture

Recommended Use: Enzyme accelerator

Restrictions on Use: No Data

Company: ETEC, LLC

6635 NE 59th Place Portland, OR 97218

USA

Telephone: (971) 222-3616

Emergency Telephone: (800) 535-5053 **Medical Emergencies:** (800) 301-7976

U.S. Coast Guard National

Response Center: (800) 424-8802

Section 2: Hazards Identification

Emergency Overview:

May be harmful if swallowed or inhaled. Causes skin irritation and eye irritation.

NFPA Rating:

Health Hazard: 1
Fire: 0
Reactivity Hazard: 0

Section 3: Composition/Information on Ingredients

Ingredients as defined by 29 CFR 1910.1200:

Chemical Ingredients:	CAS Number:	Percent Range:
Isotridecanol, ethoxylated	9043-30-5	20-50%
Fatty Acid Methyl Ester Ethoxylate	67762-39-4	20-50%
Rhamnolipid	147858-26-2	20-50%

Revision Date: 09/30/2010 Page 1 of 6

Section 4: First Aid Measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if victim feels unwell.

Skin Contact: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media: Material is not expected to be combustible. Use extinguishing medium suitable for surrounding material.

Specific Hazards in Case of Fire: None known.

Special Protective Equipment for Fire-Fighters: Use protective clothing and breathing equipment appropriate for the surrounding fire.

Section 6: Accidental Release Measures

Personal Precautions: Eliminate all ignition sources and heat sources if safe to do so. Take off contaminated clothing and wash before reuse. Use protective clothing and breathing equipment.

Environmental Precautions: Do not flush into surface water or sanitary sewer system.

Methods for Containment/Cleaning Up: Contain spillage and collect with non-combustible absorbent material. Disposal should be in accordance with all applicable local, state and federal regulations.

Section 7: Handling and Storage

Handling: Avoid breathing vapor or mist. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Keep out of reach of children.

Storage: Keep container tightly closed. Store locked up. Store at temperatures not exceeding 130°F (54°C).

Section 8: Exposure Controls/Personal Protection

Exposure Limits:

Chemical Ingredients:	CAS Number:	OSHA PEL	NIOSH REL	ACGIH TLV
Isotridecanol, ethoxylated	9043-30-5	None	None	None
isotridecarior, etrioxylated	9043-30-3	Established	Established	Established
Fatty Acid Methyl Ester	67762-39-4	None	None	None
Ethoxylate		Established	Established	Established
Rhamnolipid	147858-26-2	None	None	None
		Established	Established	Established

Engineering Controls: Use only outdoors or in a well-ventilated area.

Personal Protective Equipment:

Eye Protection: Wear eye protection/face protection.

Hand Protection: Wear protective gloves.

Skin and Body Protection: Use protective clothing.

Respiratory Protection: Avoid breathing vapor or mist. Use only outdoors or in a well-

ventilated area.

Hygiene Measures: Use only outdoors or in a well-ventilated area. Wash thoroughly after

handling.

Section 9: Physical and Chemical Properties

Physical State: Liquid

Color: Clear to slightly hazy tan color

Odor: Slight to none Odor Threshold: Not Available

pH: 6.5

Melting/Freezing Point: Not Available Initial Boiling Point: Not Available Flash Point: Not Available

Evaporation Rate: 1.20

Flammability (solid, gas): Not Available
Lower Explosive Limit: Not Available
Upper Explosive Limit: Not Available
Vapor Pressure: Not Available
Vapor Density: Not Available

Relative Density: 1.00

Solubility: Complete solubility in water

Partition Coefficient: Not Available
Autoignition Temperature: Not Available
Decomposition Temperature: Not Available

Section 10: Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Revision Date: 09/30/2010 Page 3 of 6

Conditions to Avoid: Heat.

Incompatible Materials: Strong oxidizers, inorganic acids, and halogens.

Hazardous Decomposition Products: Irritating vapors.

Hazardous Polymerization: Will Not Occur

Section 11: Toxicological Information

Inhalation: May cause respiratory headache, dizziness.

Ingestion: May be harmful if swallowed and enters airways.

Skin Contact: Causes skin irritation.

Eye Contact: Causes eye irritation.

Chronic Exposure: No known effects.

Aggravation of Pre-existing Conditions: No information found.

Numerical Measures of Toxicity: None Available

Carcinogenicity: Not known to be as defined by OSHA, IARC or NTP.

Section 12: Ecological Information

This product is safe for the environment at the concentrations predicted under normal use conditions.

Section 13: Disposal Considerations

Dispose of contents/container in accordance with all applicable local, state and federal regulations.

Section 14: Transport Information

For Transportation Emergencies Involving This Material, Call: ChemTrec 1-800-424-9300 Company Code: E249

DOT (LAND):

Proper Shipping Name: Not Applicable Hazard Class: Not Applicable UN Number: Not Applicable

Packing Group: Not Applicable Labels: Not Applicable

Emergency Response

Guidebook Number: Not Applicable

DOT Hazardous Substance RQ: None/no reportable quantities DOT Marine Pollutants: None/no reportable quantities

Section 15: Regulatory Information

OSHA Hazards: Skin irritant, eye irritant

SARA 302: None/no reportable quantities

SARA 311/312 Hazard Categories: Acute Health Hazard

SARA 313: None/no reportable quantities

TSCA: All substances in this product are listed on the TSCA inventory.

Section 16: Other Information

The information contained in this MSDS is presented in good faith and believed to be accurate based on the information provided. The MSDS does not purport to be all inclusive, and shall be used only as a guide. While ETEC, LLC believes that the data contained herein comply with 29 CFR 1910.1200, they are not to be taken as a warranty or representation for which ETEC, LLC assumes legal responsibility. ETEC, LLC shall not be held liable or accountable for any loss or damage associated with the use of this material and information. The recommended industrial hygiene and safe use, handling, storage, and disposal procedures are believed to be generally applicable. However, since the use, handling, storage, and disposal are beyond ETEC, LLC control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability of loss, damage, or expense arising out of the material's improper use.

Legend:

ACGIH: American Conference of Governmental & Industrial Hygienists

CAS: Chemical Abstract Service **CFR:** Code of Federal Regulations **DOT:** Department of Transportation

DSL/NDSL: Domestic Substances List/Non-Domestic Substances List

IARC: International Agency for the Research of Cancer

IATA: International Air Traffic Association ICAO: International Civil Aviation Organization IMDG: International Maritime Dangerous Goods

IMO: International Maritime Organizations

Health, Flammability & Reactivity; Hazard Scale 0 =minimal/none 4= significant

NTP: National Toxicology Program
NFPA: National Fire Protection Association

OSHA: Occupational Safety & Health Administration

PEL: Permissible Exposure Limits

RCRA: Resource Conservation & Recovery Act

RQ: Reportable Quantity **RTK:** Right-To-Know

SARA: Superfund Amendments & Reauthorization Act

STEL: Short Term Exposure Limit TLV: Threshold Limit Value

TSCA: Toxic Substances Control Act
TWA: Time Weighted Average
TCLP: Toxicity Characteristic Leaching Procedure
VOC: Volatile Organic Compounds



Material Safety Data Sheet

Arkema Inc.

1 PRODUCT AND COMPANY IDENTIFICATION

Industrial Chemicals

EMERGENCY PHONE NUMBERS:

Arkema Inc.

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

2000 Market Street

Medical: Rocky Mountain Poison Control Center

(866) 767-5089 (24Hrs)

Philadelphia, PA 19103

Phone Number Available Hrs

Product Information

Information Telephone Numbers

215-419-7704 8:30 a.m. - 5:00 p.m.

(Eastern)

Product Name

Hydrogen Peroxide, 50% (All Grades)

Product Synonym(s)

Chemical Family
Chemical Formula

Peroxide

H2O2

Chemical Name

Hydrogen Peroxide Solution, 50%

EPA Reg Num Product Use

IN CANADA, IN CASE OF EMERGENCY CALL:

CANUTEC 613-996-6666

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical %	OSHA	
Hydrogen peroxide	7722-84-1	50%	Υ	
Water	7732-18-5	50%	N	

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

This material is classified as hazardous under Federal OSHA regulation.

The components of this product are all on the TSCA Inventory list.

3 HAZARDS IDENTIFICATION

Emergency Overview

Water white liquid with slightly sharp odor.

DANGER!

CAUSES EYE BURNS. MAY CAUSE BLINDNESS.

CAUSES SKIN BURNS.

CAUSES RESPIRATORY TRACT BURNS.

HARMFUL IF SWALLOWED.

STRONG OXIDIZER.

CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE OR EXPLOSIVE DECOMPOSITION.

Potential Health Effects

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on single exposure animal tests, it is considered to be moderately toxic if swallowed, practically non-toxic if absorbed

Product Code: 04503 Revision: 21 Issued: 09 AUG 2006 Page 1 of 7



Material Safety Data Sheet

Arkema Inc.

through skin, slightly toxic if inhaled, and corrosive to eyes and skin. Inhalation of high concentrations of vapor or mist may cause severe irritation of the eyes, nose and upper respiratory tract with cough, chest discomfort and, in severe cases, pulmonary edema (accumulation of fluid in the lungs). Skin contact with concentrated liquid for a short period of time may cause a temporary whitening or bleaching of the skin. Prolonged or repeated contact with skin may cause severe irritation or burns characterized by a tingling sensation, redness, swelling and possible destruction of the dermis with ulceration. If swallowed, this material may cause irritation, burns or perforation of the gastrointestinal tract including the stomach and intestines. Symptoms of injury may include nausea, vomiting, diarrhea, abdominal pain, bleeding or tissue ulceration.

4 FIRST AID MEASURES

IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Get medical attention.

IF ON SKIN, immediately flush with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Destroy contaminated shoes.

IF SWALLOWED, do NOT induce vomiting. Give water to drink. Get medical attention immediately. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5 FIRE FIGHTING MEASURES

Fire and Explosive Properties

Auto-Ignition Temperature NA

Flash Point None Flash Point Method

Flammable Limits- Upper NA Lower NA

Extinguishing Media

Use water spray, water fog.

Fire Fighting Instructions

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

Fire and Explosion Hazards

Solutions above 65% are especially hazardous as they do not contain enough water to remove the heat of decomposition by evaporation. Avoid breathing fumes from fire exposed material.

6 ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Stop the leak, if possible. Ventilate the space involved. Flush with plenty of water. Combustible materials exposed to hydrogen peroxide should be rinsed immediately with large amounts of water to ensure that all the hydrogen peroxide is removed. Residual hydrogen peroxide which is allowed to dry on organic materials such as paper, fabrics, cotton, leather, wood, or other combustibles can cause the material to ignite and result in a fire. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

Product Code: 04503 Revision: 21 Issued: 09 AUG 2006 Page 2 of 7



Material Safety Data Sheet

Arkema Inc.

7 HANDLING AND STORAGE

Handling

Do not get in eyes, on skin or on clothing. Do not breathe mist. Do not taste or swallow. Wash thoroughly after handling. Use only with adequate ventilation. Avoid contamination. Keep container closed.

Storage

Store separate from acids, alkalies, reducing agents, combustibles.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Investigate engineering techniques to reduce exposures below airborne exposure limits. Provide ventilation if necessary to control exposure levels below airborne exposure limits (see below). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

Eye / Face Protection

Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.

Skin Protection

Neoprene, Polyvinyl chloride, Butyl rubber Gloves should be worn when handling this material. Wear chemical goggles, a face shield, and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing promptly and wash before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash skin thoroughly after handling.

Respiratory Protection

Avoid breathing vapor or mist. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Other Protective Equipment

Exposure Limit

Rubber boots with neoprene or pvc soles. Do NOT wear leather boots. Note: As the water content of hydrogen peroxide evaporates, cotton, rayon, and wool fibers are particularly subject to spontaneous combustion. Where there is significant risk of sudden splash or spray, it is advised that an apron or rubber suit be worn. Any contaminated clothing, including gloves, shoes, aprons, coveralls, etc., should be removed immediately and thoroughly flushed with water to eliminate any traces of hydrogen peroxide before cleaning and reuse.

Airborne Exposure Guidelines for Ingredients

7			_
Hydrogen peroxide			
ACGIH TWA	-	1 ppm 1.4 mg/m3	
OSHA TWA PEL		1 ppm 1.4 mg/m3	

Value

Product Code: 04503 Revision: 21 Issued: 09 AUG 2006 Page 3 of 7

⁻Only those components with exposure limits are printed in this section.

⁻Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.

⁻ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.

⁻WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.



Material Safety Data Sheet

Arkema Inc.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor Water white liquid with slightly sharp odor.

pH NE

Specific Gravity 1.196 @ 20 C Vapor Pressure 18.3 @ 20 C

Vapor Density 1.0
Melting Point NE

Freezing Point -52 C (-62 F)
Boiling Point 114 C (237 F)
Solubility In Water Complete
Percent Volatile 100%
Molecular Weight 34.01

10 STABILITY AND REACTIVITY

Stability

This material is chemically stable under normal and anticipated storage and handling conditions.

Incompatibility

Material decomposes with the potential to produce a rupture of unvented closed containers. Contact with metals, metal ions, organics, wood, dust, shavings, dry vegetables may cause decomposition.

Hazardous Decomposition Products

This material decomposes if contaminated, causing fire and possible explosions. Oxygen can be liberated at temperatures above ambient.

11 TOXICOLOGICAL INFORMATION

Toxicological Information

Data on this material and/or its components are summarized below. Hydrogen Peroxide Single exposure (acute) studies indicate that this material is moderately toxic if swallowed (rat LD50 805 mg/kg; 70% solution), practically non-toxic if absorbed through skin (rabbit LD50 >6,500 mg/kg; 70% solution), slightly toxic if inhaled (no mortality in rats at 170 mg/m3 for 4 hours), and corrosive to rabbit eyes and skin. No skin allergy was observed in guinea pigs following repeated exposure. Solutions are commonly used for disinfecting wounds, bleaching hair or as a mouth wash and generally do not show adverse skin reactions. Accidental ingestion by children has resulted in death from lung edema, stomach erosions and gas distention and burns to the throat and esophagus. Eye and throat irritation and bleaching of hair have been reported by workers exposed to this material in the atmosphere.

Several studies have been conducted by administering material in the drinking water of mice and rats. The primary findings were irritation of the gastric mucous. Repeated inhalation exposure of rats and mice caused nasal irritation without notable adverse effects on the lining of the upper respiratory system. Repeated inhalation exposure of dogs resulted in upper respiratory tract irritation and emphysematous changes in the lungs. Generally, long-term oral dosing caused no adverse effects other than erosion of the stomach lining from direct application of the test material. Several studies have shown an increase in gastrointestinal tract tumors in mice and rats following long-term exposure in the drinking water. Concentrations less than 1% do not promote gastrointestinal tumors. The U.S. Federal Drug Administration has concluded that there is insufficient evidence of carcinogenicity and the International Agency for Research on Cancer (IARC) has concluded that this chemical is not classifiable as to its carcinogenicity to humans (Group 3). Genetic changes were observed in tests using bacteria and animal cells, but not in animals.

Product Code: 04503 Revision: 21 Issued: 09 AUG 2006 Page 4 of 7



Hydrogen Peroxide, 50% (All Grades)

Material Safety Data Sheet

Arkema Inc.

12 ECOLOGICAL INFORMATION

Ecotoxicological Information

Data on this material and/or its components are summarized below.

Hydrogen Peroxide

This material is highly toxic to marine algae (LC50 0.85 mg/l), moderately toxic to Daphnia magna (EC50 7.7 mg/l) and Daphnia pulex (LC50 2.4 mg/l). It is slightly toxic to coho salmon (LC50 10 mg/l), channel catfish (LC50 37.4 mg/l), golden orfe (LC50 35 mg/l), fathead minnow (LC50 16.4 mg/l), snail (LC50 17.7 mg/l) and bacteria (EC50 30 mg/l).

Chemical Fate Information

No data are available.

13 DISPOSAL CONSIDERATIONS

Waste Disposal

Consult with environmental engineer or professional to determine if neutralization is appropriate and for handling procedures for residual materials. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

14 TRANSPORT INFORMATION

DOT Name Hydrogen Peroxide, Aqueous Solution,

DOT Technical Name

DOT Hazard Class 5.1

UN Number UN 2014 DOT Packing Group PG II

RQ

DOT Special Information Subsidiary (8)

Non-Bulk packages must have Class 5.1 and Class 8 labels.

Bulk packages require Class 5.1 Oxidizer placards.

15 REGULATORY INFORMATION

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

Immediate (Acute) Health Y Fire Y
Delayed (Chronic) Health N Reactive Y
Sudden Release of Pressure N

The components of this product are all on the TSCA Inventory list.

Ingredient Related Regulatory Information:

SARA Reportable Quantities

Hydrogen peroxide

CERCLA RQ

NE

SARA TPQ

1000 LBS

Water NE

Product Code: 04503 Revision: 21 Issued: 09 AUG 2006 Page 5 of 7



Hydrogen Peroxide, 50% (All Grades)

Material Safety Data Sheet

Arkema Inc.

SARA Title III, Section 302

This product does contain chemical(s), as indicated below, currently on the Extremly Hazardous Substance List, Section 302, SARA Title III. See Section 2 for further details regarding concentrations and registry numbers.

Hydrogen peroxide

Massachusetts Right to Know

This product does contain the following chemicals(s), as indicated below, currently on the Massachusetts Right to Know Substance List.

Hydrogen peroxide

New Jersey Right to Know

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List. Hydrogen peroxide

Pennsylvania Environmental Hazard

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazard List. Hydrogen peroxide

Pennsylvania Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Hazardous Substance List. Hydrogen peroxide

16 OTHER INFORMATION

Revision Information

Revision Date 09 AUG 2006 Revision Number 21

Supercedes Revision Dated 12-OCT-2004

Revision Summary

Added Peroxal BIO grade name

Key

NE Not Established NA Not Applicable (R) = Registered Trademark

Miscellaneous

This MSDS covers the following grades of H2O2:

Albone; Alb; Alb A; Alb CG; MS; Alb MT; Alb LCL; Alb LC; AL-1; AL-2; AL-3; AL-4; A; Per; Perone; FG; ASG; AG; CG; Pure; M; DS; EG; KASTONE 50; Valsterane; Peroxal; CLG; SEG

Peroxal 50% BIO (EPA Registration # 335-235)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Product Code: 04503 Revision: 21 Issued: 09 AUG 2006 Page 6 of 7



Hydrogen Peroxide, 50% (All Grades)

Material Safety Data Sheet

Arkema Inc.

Arkema Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use are beyond the control of Arkema Inc., Arkema Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

Product Code: 04503 Revision: 21 Issued: 09 AUG 2006 Page 7 of 7



6635 NE 59th Place Portland, Oregon 97218 (971) 222-3903 Fax www.etecllc.com

Material Safety Data Sheet

Revision Date: 09/30/2010

Section 1: Product and Company Identification

Product Name: EZT-A2

MSDS Number: 010

Chemical Name: Not Applicable – Biological Material Chemical Family: Not Applicable – Biological Material

Recommended Use: Petroleum Hydrocarbon Degradation

Restrictions on Use: No Data

Company: ETEC, LLC

6635 NE 59th Place Portland, OR 97218

USA

Telephone: (971) 222-3616

Emergency Telephone: (800) 535-5053 **Medical Emergencies:** (800) 301-7976

U.S. Coast Guard National

Response Center: (800) 424-8802

Section 2: Hazards Identification

Emergency Overview:

Causes skin and eye irritation. May be harmful if swallowed.

NFPA Rating:

Health Hazard: 1
Fire: 0
Reactivity Hazard: 0

Section 3: Composition/Information on Ingredients

Ingredients as defined by 29 CFR 1910.1200:

Chemical Ingredients:	CAS Number:	Percent Range:		
Bacterial Consortium	Not Applicable	100%		

Section 4: First Aid Measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Revision Date: 09/30/2010 Page 1 of 5

Skin Contact: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media: Material is not expected to be combustible. Use extinguishing medium suitable for surrounding material.

Specific Hazards in Case of Fire: None known.

Special Protective Equipment for Fire-Fighters: Use protective clothing and breathing equipment appropriate for the surrounding fire.

Section 6: Accidental Release Measures

Personal Precautions: Use goggles and impervious gloves if contact with product is possible.

Environmental Precautions: Prevent spill material from entering waterways and groundwater, if possible.

Methods for Containment/Cleaning Up: Collect spillage. Re-use if possible. Disposal should be in accordance with all applicable local, state and federal regulations.

Section 7: Handling and Storage

Handling: Avoid breathing vapor or mist. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Keep out of reach of children.

Storage: Keep container tightly closed. Store at temperatures not exceeding 70°F (20°C).

Section 8: Exposure Controls/Personal Protection

Exposure Limits:

Chemical CAS Ingredients: Number:		OSHA PEL	NIOSH REL	ACGIH TLV	
Bacterial Consortium	Not	None	None	None	
	Applicable	Established	Established	Established	

Engineering Controls: Use only outdoors or in a well-ventilated area.

Personal Protective Equipment:

Eye Protection: Wear eye protection/face protection.

Revision Date: 09/30/2010 Page 2 of 5

Hand Protection: Wear protective gloves.

Skin and Body Protection: Use protective clothing.

Respiratory Protection: Use only outdoors or in a well-ventilated area.

Hygiene Measures: Wash thoroughly after handling.

Section 9: Physical and Chemical Properties

Physical State:LiquidColor:Brown/Tan

Odor: Slightly Sour Odor
Odor Threshold: Not Available
pH: Not Available
Melting/Freezing Point: Not Available
Initial Boiling Point: 212°F (100°C)
Flash Point: Not Available

Evaporation Rate: 1.00

Flammability (solid, gas): Not Applicable Lower Explosive Limit: Not Available Upper Explosive Limit: Not Available

Vapor Pressure: 18 mm Hg at 75°F (24°C)

Vapor Density: Not Available

Relative Density: 1.00

Solubility: Completely soluble in water

Partition Coefficient: Not Available
Autoignition Temperature: Not Available
Decomposition Temperature: Not Available

Section 10: Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Conditions to Avoid: None identified.

Incompatible Materials: None identified.

Hazardous Decomposition Products: None identified.

Hazardous Polymerization: Will Not Occur

Section 11: Toxicological Information

Inhalation: No known effects.

Ingestion: Causes gastrointestinal irritation.

Skin Contact: Causes skin irritation.

Eye Contact: Causes eye irritation.

Revision Date: 09/30/2010 Page 3 of 5

Chronic Exposure: No known effects.

Aggravation of Pre-existing Conditions: No information found.

Numerical Measures of Toxicity: None Available

Carcinogenicity: Not known to be as defined by OSHA, IARC or NTP.

Section 12: Ecological Information

This product is safe for the environment at the concentrations predicted under normal use conditions.

Section 13: Disposal Considerations

Dispose of contents/container in accordance with all applicable local, state and federal regulations.

Section 14: Transport Information

For Transportation Emergencies Involving This Material, Call: ChemTrec 1-800-424-9300 Company Code: E249

DOT (LAND):

Proper Shipping Name:
Hazard Class:
UN Number:
Packing Group:
Labels:
Not Applicable
Not Applicable
Not Applicable
Not Applicable

Emergency Response

Guidebook Number: Not Applicable

DOT Hazardous Substance RQ: None/no reportable quantities DOT Marine Pollutants: None/no reportable quantities

Section 15: Regulatory Information

OSHA Hazards: Skin irritant, eye irritant, gastrointestinal irritant

SARA 302: None/no reportable quantities

SARA 311/312 Hazard Categories: No data

SARA 313: None/no reportable quantities

TSCA: Not Applicable

Revision Date: 09/30/2010 Page 4 of 5

Section 16: Other Information

The information contained in this MSDS is presented in good faith and believed to be accurate based on the information provided. The MSDS does not purport to be all inclusive, and shall be used only as a guide. While ETEC, LLC believes that the data contained herein comply with 29 CFR 1910.1200, they are not to be taken as a warranty or representation for which ETEC, LLC assumes legal responsibility. ETEC, LLC shall not be held liable or accountable for any loss or damage associated with the use of this material and information. The recommended industrial hygiene and safe use, handling, storage, and disposal procedures are believed to be generally applicable. However, since the use, handling, storage, and disposal are beyond ETEC, LLC control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability of loss, damage, or expense arising out of the material's improper use.

Legend:

ACGIH: American Conference of Governmental & Industrial Hygienists

CAS: Chemical Abstract Service **CFR:** Code of Federal Regulations **DOT:** Department of Transportation

DSL/NDSL: Domestic Substances List/Non-Domestic Substances List

IARC: International Agency for the Research of Cancer

IATA: International Air Traffic Association ICAO: International Civil Aviation Organization IMDG: International Maritime Dangerous Goods IMO: International Maritime Organizations NFPA: National Fire Protection Association

Health, Flammability & Reactivity; Hazard Scale 0 =minimal/none 4= significant

NTP: National Toxicology Program

OSHA: Occupational Safety & Health Administration

PEL: Permissible Exposure Limits

RCRA: Resource Conservation & Recovery Act

RQ: Reportable Quantity **RTK:** Right-To-Know

SARA: Superfund Amendments & Reauthorization Act

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

TSCA: Toxic Substances Control Act **TWA:** Time Weighted Average

TCLP: Toxicity Characteristic Leaching Procedure

VOC: Volatile Organic Compounds



6635 NE 59th Place Portland, Oregon 97218 (971) 222-3903 Fax www.etecllc.com

Material Safety Data Sheet

Revision Date: 09/30/2010

Section 1: Product and Company Identification

Product Name: CBNTM Custom-Blend Nutrients

MSDS Number: 014

Chemical Name: Inorganic Nutrient Mixture

Chemical Family: Mixed Nutrient

Recommended Use: Microbial Nutrient

Restrictions on Use: No Data

Company: ETEC, LLC

6635 NE 59th Place Portland, OR 97218

USA

Telephone: (971) 222-3616

Emergency Telephone: (800) 535-5053 **Medical Emergencies:** (800) 301-7976

U.S. Coast Guard National

Response Center: (800) 424-8802

Section 2: Hazards Identification

Emergency Overview:

May cause fire or explosion; strong oxidizer. May be harmful if swallowed or inhaled. Causes skin irritation and eye irritation. May cause respiratory irritation.

NFPA Rating:

Health Hazard: 0 Fire: 0 Reactivity Hazard: 3

Other: Oxidizer

Revision Date: 09/30/2010 Page 1 of 6

Section 3: Composition/Information on Ingredients

Ingredients as defined by 29 CFR 1910.1200:

Chemical Ingredients:	CAS Number:	Percent Range:
Ammonium Nitrate	6484-52-2	60 – 80%
Phosphate Salt		20 – 30%
Non-hazardous Component		5%

Section 4: First Aid Measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

Skin Contact: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Do NOT induce vomiting. Give large quantities of water to drink. Immediately call a poison center or doctor/physician.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media: Use flooding amounts of water in early stages of fire involving ammonium nitrate for extinction. Use any means suitable for extinguishing surrounding fire.

Specific Hazards in Case of Fire: May cause fire or explosion; strong oxidizer. May support combustion in an existing fire. Contact with oxidizable substances may cause extremely violent combustion. Sealed containers may rupture when heated. Sensitive to mechanical impact. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Special Protective Equipment for Fire-Fighters: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Section 6: Accidental Release Measures

Personal Precautions: Eliminate all ignition sources and heat sources if safe to do so.

Environmental Precautions: Prevent spill material from entering waterways and groundwater, if possible.

Methods for Containment/Cleaning Up: Collect spillage. Collected waste may be transferred to a closed, preferably metal container and sent to a RCRA approved waste disposal facility. Alternatively, sweep spill into noncombustible container and dissolve in large amount of water. Add soda ash. Mix and neutralize with 6M-HCI. Neutralized sludge may be sent to an approved waste disposal facility.

Revision Date: 09/30/2010 Page 2 of 6

Section 7: Handling and Storage

Handling: Keep away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store away from clothing and other combustible materials. Store at temperatures not exceeding 130°F (54°C), preferably not exceeding 86°F (30°C).

Section 8: Exposure Controls/Personal Protection

Exposure Limits:

Chemical Ingredients:	CAS Number:	OSHA PEL	NIOSH REL	ACGIH TLV
Ammonium Nitrate	6484-52-2	None	None	None
Ammoniam Mirate	0404-02-2	Established	Established	Established
Dhoonhata Calt		None	None	None
Phosphate Salt		Established	Established	Established
Non-hazardous		None	None	None
Component		Established	Established	Established

Engineering Controls: Use only outdoors or in a well-ventilated area.

Personal Protective Equipment:

Eye Protection: Wear eye protection/face protection.

Hand Protection: Wear protective gloves.

Skin and Body Protection: Wear impervious clothing, boots, gloves as appropriate to prevent

skin contact.

Respiratory Protection: Avoid breathing dust. Use only outdoors or in a well-ventilated area. If exposure to dust is possible, use a NIOSH approved respirator.

Hygiene Measures: Keep away from clothing and other combustible materials. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling.

Section 9: Physical and Chemical Properties

Physical State: Crystals, granules

Color: White
Odor: Odorless
Odor Threshold: Not Available

pH: 7.0

Melting/Freezing Point: 338°F (170°C)

Initial Boiling Point: 410°F (210°C) Decomposes

Flash Point:

Evaporation Rate:

Flammability (solid, gas):

Lower Explosive Limit:

Not Available

Not Available

Not Available

Revision Date: 09/30/2010 Page 3 of 6

Upper Explosive Limit:Not AvailableVapor Pressure:Not AvailableVapor Density:Not AvailableRelative Density:1.73 @ 77°F (23°C)

Solubility: 118 g/100 g water @ 32°F (0°C)

Partition Coefficient: Not Available
Autoignition Temperature: Not Available
Decomposition Temperature: Not Available

Section 10: Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage. Hygroscopic.

Conditions to Avoid: Heat, flame, ignition sources, dusting and incompatibles. Moisture and combustible materials. Shock sensitive.

Incompatible Materials: Aluminum, antimony, chromium, copper, iron, lead, magnesium, manganese, nickel, zinc, brass, oil, charcoal, organic material, acetic acid, ammonium chloride, bismuth, cadmium, chlorides, cobalt, phosphorus, potassium and ammonium sulfate, sodium, sodium hypochlorite, sodium perchlorate, sodium-potassium alloy, and sulfides.

Hazardous Decomposition Products: Emits nitrous oxides when heated to decomposition. Liberates ammonia in reaction with strong alkalis.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Inhalation: May cause respiratory irritation. At high temperatures, exposure to toxic nitrogen oxides decomposition products can quickly cause acute respiratory problems. Inhalation of large amounts causes systemic acidosis and abnormal hemoglobin.

Ingestion: Harmful if swallowed. Large oral doses of nitrates may cause dizziness, abdominal pain, vomiting, bloody diarrhea, weakness, convulsions, and collapse. May cause methemoglobinemia resulting in cyanosis.

Skin Contact: Causes skin irritation.

Eye Contact: Causes eye irritation.

Chronic Exposure: Small repeated oral doses of nitrates may cause weakness, depression, headache, and mental impairment.

Aggravation of Pre-existing Conditions: No information found.

Numerical Measures of Toxicity: Oral rat LD50: 2217 mg/kg (for ammonium nitrate)

Carcinogenicity: Not known to be as defined by OSHA, IARC or NTP (for ammonium nitrate).

Revision Date: 09/30/2010 Page 4 of 6

Section 12: Ecological Information

Mobility in Soil: When released into soil, this material is expected to leach into groundwater. When released into the soil, this material is not expected to evaporate significantly.

Persistence: When released into water, this material is expected to readily biodegrade.

Section 13: Disposal Considerations

Dispose of contents/container in accordance with all applicable local, state and federal regulations.

Section 14: Transport Information

For Transportation Emergencies Involving This Material, Call: ChemTrec 1-800-424-9300 Company Code: E249

DOT (LAND):

Proper Shipping Name: AMMONIUM NITRATE

Hazard Class: 5.1
UN Number: UN1942
Packing Group: III
Placards: Oxidizer

DOT Hazardous Substance RQ: None/no reportable quantities DOT Marine Pollutants: None/no reportable quantities

Section 15: Regulatory Information

OSHA Hazards: Strong oxidizer, skin irritant, eye irritant, respiratory irritant

SARA 302: None/no reportable quantities.

SARA 311/312 Hazard Categories: Acute Health Hazard, Reactive Hazard

SARA 313: Nitrate compounds are subject to the reporting requirements of SARA 313. Additionally, water dissociable ammonia salts are subject to the reporting requirements of SARA 313 when placed in water.

TSCA: All substances in this product are listed on the TSCA inventory.

Section 16: Other Information

The information contained in this MSDS is presented in good faith and believed to be accurate based on the information provided. The MSDS does not purport to be all inclusive, and shall be used only as a guide. While ETEC, LLC believes that the data contained herein comply with 29 CFR 1910.1200, they are not to be taken as a warranty or representation for which ETEC, LLC assumes legal responsibility.

Revision Date: 09/30/2010 Page 5 of 6

ETEC, LLC shall not be held liable or accountable for any loss or damage associated with the use of this material and information. The recommended industrial hygiene and safe use, handling, storage, and disposal procedures are believed to be generally applicable. However, since the use, handling, storage, and disposal are beyond ETEC, LLC control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability of loss, damage, or expense arising out of the material's improper use.

Legend:

ACGIH: American Conference of Governmental & Industrial Hygienists

CAS: Chemical Abstract Service **CFR:** Code of Federal Regulations **DOT:** Department of Transportation

DSL/NDSL: Domestic Substances List/Non-Domestic Substances List

IARC: International Agency for the Research of Cancer

IATA: International Air Traffic Association ICAO: International Civil Aviation Organization IMDG: International Maritime Dangerous Goods IMO: International Maritime Organizations

NFPA: National Fire Protection Association

Health, Flammability & Reactivity; Hazard Scale 0 =minimal/none 4= significant

NTP: National Toxicology Program

OSHA: Occupational Safety & Health Administration

PEL: Permissible Exposure Limits

RCRA: Resource Conservation & Recovery Act

RQ: Reportable Quantity **RTK:** Right-To-Know

SARA: Superfund Amendments & Reauthorization Act

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

TSCA: Toxic Substances Control Act

TWA: Time Weighted Average

TCLP: Toxicity Characteristic Leaching Procedure

VOC: Volatile Organic Compounds

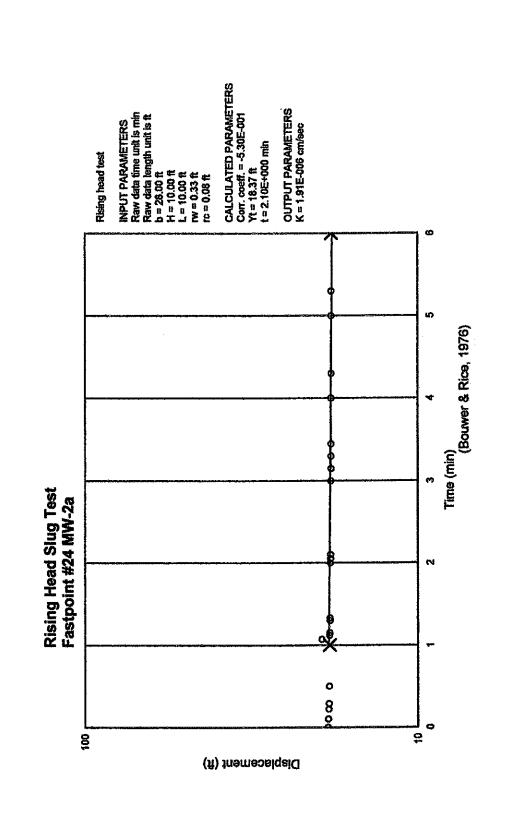
Appendix D

Aquifer Analysis

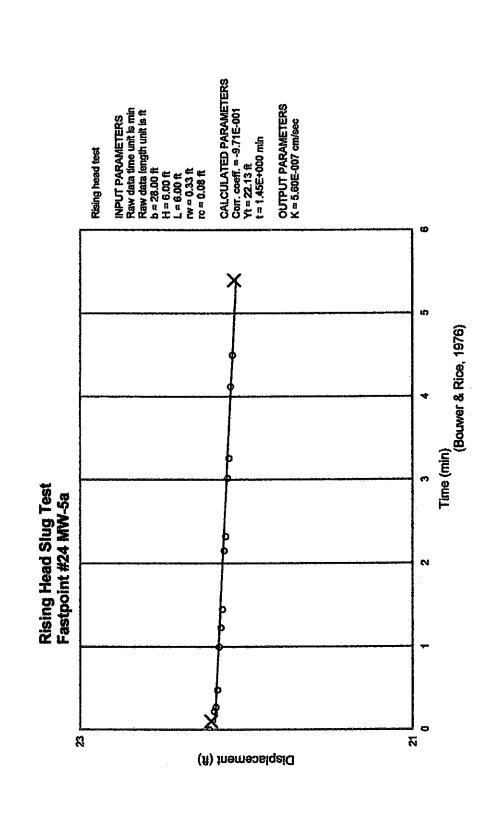


Summary of Slug Test Division of Underground Storage Tank Management

Site Data				
UST Permit #:		Count	y: <u>Richland</u>	
Facility Name: <u>Fastpoint #24</u>				
Slug Data				
See Appendix Table level logs, etc. (complete as appropriate)].	Figure		_ for a list of all da	ita measurements. [water
Water Level Recovery Data was measured by [Hermit Data Logger, Manually with Water Lo	y <u>Water Lev</u> evel Indicator, etc. (I	el Meter ist method)].		·····
Complete the following table for each well te	sted.			
COMPLETE A SECOND SHEET IF MORE T	HAN FOUR WELLS	ARE TESTED		
Slug Test Conducted in Well(s) Number	MW-2a	MW-5a		
Initial Rise/Drawdown in Well (feet)	18.12	22.01		
Radius of Well Casing (feet)	.08	.08		
Effective Radius of Well (feet)	.33	.33		
Static Saturated Aquifer Thickness (feet)	28	28		
Length of Well Screen (feet)	10	10		
Static Height of Water Column in Well (ft)	10	6		
Calculations				
See Appendix Table	Figure	fo	or calculations (cor	mplete as appropriate).
The method for aquifer calculations was	ouwer-Rice		(i.e. Bo	uwer-Rice, Cooper, etc.).
Calculated values by well were as follows:				
Siug Test Conducted in Well(s) Numb	per Mt. 2	a M	W-5a	
Hydraulic Conductivity				ec
Thickness of the aquifer used to calculate hydr			•	
The aquifer is confined	·			
The estimated seepage velocity is0_012	to 0.040		······································	feet per year based on
a hydraulic conductivity of $1.91 \times 10-6$ to	5.60x10-7_	a hydraulic gradi	ent of00	7 ft/ft and
a porosity of <u>35</u> percent for _	clayey sand	∃soil (list	type i.e., silty sand	d ,clay, etc).
DHEC 3531 (07/1999)				



Fastpoint #	24. Columb	oia, SC					
	d Slug Tes						
MW-2a	· · · · · · · · · · · · · · · · · · ·						
Date: 5-18-	99						
				Selected	Selected	Rescaled	
				Time	Draw	(t-t0)	Draw
Time (min.)			(min)	(ft)	(min)	(ft)
0.05	19.1			0.05	19.1	0	19.1
0.2	18.95			0.2	18.95	0.15	18.95
0.31	18.8			0.31	18.8	0.26	18.8
0.36	18.75			0.36	18.75	0.31	18.75
0.48	18.72			0.48	18,72	0.43	18.72
0.5	18.63			0.5	18.63	0,45	18.63
1	18.58			1	18.58	0.95	18.58
1.1	18.55			1.1	18,55	1.05	18.55
1.22	18.5			1.22	18.5	1.17	18.5
1.29	18.45			1.29	18.45	1.24	18.45
1.5	18.43			1.5	18.43	1.45	18.43
2	18.4			2	18.4	1.95	18.4
2.07	19.39			2.07	19.39	2.02	19.39
2.12	18.38			2.12	18.38	2.07	18.38
2.15	18.35			2.15	18.35	2.1	18.35
2.3	18.33			2.3	18,33	2.25	18.33
2.33	18.32			2.33	18.32	2.28	18.32
3	18.29			3	18,29	2.95	18.29
3.05	18.27			3.05	18.27	3	18.27
3.1	18.26			3.1	18.26	3.05	18.26
4	18.22	······································		4	18.22	3.95	18.22
4.15	18.2			4.15	18.2	4.1	18.2
4.3	18.19			4.3	18.19	4.25	18.19
4.45	18.18			4.45	18.18	4.4	18.18
5	18,18			5	18.18	4,95	18.18
5.3	18.16			5.3	18.16	5.25	18.16
6	18.15			6	18.15	5.95	18.15
6.3	18.15		 	6.3	18.15	6.25	18.15
7	18.15			7	18.15	6.95	18.15



Fastpoint #	24, Columb	oia. SC				
	ad Slug Tes					
MW-5a						
Date: 5-18-	-99		Selected	Selected	Rescaled	
			Time	Draw	(t-tO)	Draw
Time	Draw		(min)	(ft)	(min)	(ft)
0.37	22.25		0.37	22.25	0	22.2
0.49	22.24		0.49	22.24	0.1	22,19
0.55	22.21		0.55	22.21	0.22	22.17
1	22.2		1	22.2	0.27	22,16
1.1	22.19		1.1	22.19	0.48	22.15
1,22	22.17		1.22	22.17	1	22.14
1.27	22.16		1.27	22.16	1.23	22.13
1.48	22.15		1.48	22.15	1.45	22.12
2	22.14		2	22.14	2.15	22.11
2,23	22.13		2.23	22.13	2.32	22.1
2.45	22.12		2.45	22.12	3.02	22.09
3.15	22.11		3.15	22.11	3.26	22.08
3.32	22.1		3.32	22.1	4.12	22.07
4.02	22.09		4.02	22.09	4.5	22.06
4,26	22.08		4.26	22.08	5.4	22.05
5.12	22.07		5.12	22.07		
5.5	22.06		5.5	22.06		
6.4	22.05		6.4	22.05		

Well Number	Type of Material Exposed to Screened Interval	Hydraulic Conductivity (K) (cm/sec)
MW-1A	UNKNOWN	2.87 x 10 ⁻⁴
MW-2A	UNKNOWN	5.48×10^{-4}
MW-3	Sandy CLAY	6.96 x 10 ⁻⁵
MW-5	Sandy CLAY	3.33 x 10 ⁻⁵
MW-5A	UNKNOWN	8.09 x 10 ⁻⁴
MW-11	Sandy CLAY	1.73×10^{-4}
MW-12	Silty Sand & Silty CLAY	8.50×10^{-5}
MW-14	SAND	8.24 x 10 ⁻⁶
MW-16	Sandy CLAY	9.50 x 10 ⁻⁷
MW-17D	Silty CLAY	7.73 x 10 ⁻⁷

Notes:

Field tests were reduced and the hydraulic conductivities computed using techniques described in NAVFAC Soil Mechanics Design Manual 7.1, May, 1982, Condition A and Condition C (Condition C used on MW-17D).

Soil descriptions from SCDHEC files. Calculations are included in Appendix B.

6.4 GROUNDWATER MOVEMENT

Groundwater movement is often related to topography, lithology, elevation of recharge and discharge areas and man-made influences. Referenced groundwater elevations were determined by measuring the top of the monitoring well casing relative to a nearby datum elevation (see Figure 2) measuring the water level in the monitoring well, and computing the reference elevation of the groundwater at the time of measurement.

Directions of groundwater flow were interpolated between monitoring wells by comparing the groundwater elevations at those locations considering the factors listed above. Groundwater levels typically fluctuate with seasonal and rainfall variations.

•	SUMMARY of	SLUG TES	T (page 1	of 3)			
	SOUTH CAROLINA Department of Health and Environmental Control (DHEC)						
Site Data							
SITE ID#	7777	COUNTY		Richland	·		
FACILITY NAME	· · · · · · · · · · · · · · · · · · ·	Cloud's C	hevron		 :	•	
SLUG DATA		-				***************************************	
· · · · — — — — — — — — — — — — — — — —	Table vel logs, etc.)(Complete			for a list of a	all data mea	surements.	
(Hermit D Complete the following t	ata Logger, Manualiy v	vith Water L	evel Indicat	or, etc.)(Lis		. : D	
Slug Test Conducted in well(s) number Initial Rise/Drawdown in well (feet) Radius of well casing (feet) Effective Radius of Well (feet) Static Saturated Aquifer Thickness (feet) Length of Well Screen (feet)		MW-1A 0.09 0.083 0.33 7.31	MW-2A 1.86 0.083 0.33 3.59	MW-3 1.77 0.083 0.35 3.46	MW-5 0.65 0.083 0.35 5.97		
Static Height of Water C	olumn in Well (ft)	20.69	25.41	22.04	22.53		
Calculations						•	
See Appendix The method for aquifer of Calculated values by we		Figure NAVFAC	1	for calculation	ons		
Siug Test Conducted in Hydraulic Conductivity	and the second s	MW-1A 2.87E-04	MW-2A 5.48E-04	MW-3 6.96E-05	MW-5 3.33E-05	om/sec	
Thickness of the aquifer The aquifer is SEE SHE The estimated seepage	confined ET 3 velocity is	semi-confin	ed	water table	(Check as A	Appropriate).	
cm/sec, a percent for	hydraulic gradient of soil.	ARY of SLU	. 1	porosity of _		,	

				of 3)		***************************************	
SOUTH CAROLINA Department of Health and Environmental Control (DHEC)							
Site Data							
SITE ID#	7777	COUNTY		Richland			
FACILITY NAME		Cloud's C	hevron		,,		
SLUG DATA							
See Appendix (water l	_Table evel logs, etc.)(Complet	Figure e as appropri		for a list of a	all data mea	isurements.	
Water Level Recovery (Hermit Complete the following	Data was measured by Data Logger, Manually table for each well test ETE A SECOND SHEE	with Water Lo	ORS Interfa	or, etc)(Lis	•		
Slug Test Conducted in well(s) number Initial Rise/Drawdown in well (feet) Radius of well casing (feet) Effective Radius of Well (feet) Static Saturated Aquifer Thickness (feet) Length of Well Screen (feet) Static Height of Water Column in Well (ft)		MW-5A 0.08 0.083 0.33 6.14 5 23.26	MW-11 0.43 0.083 0.33 10.02 15 19.98	MW-12 0.1 0.083 0.33 24.9 15 5.1	MW-14 0.1 0.083 0.33 14.41 15		
Calculations							
See Appendix The method for aquifer Calculated values by v Slug Test Conducted i Hydraulic Conductivity	vell were as follows: n Well(s) number	Figure NAVFAC MW-5A 8.09E-04	MW-11 1.73E-04	for calculati MW-12 8.50E-05	MW-14	cm/sec	
The aquifer is SEE SH	· · · · · · · · · · · · · · · · · · ·	_semi-confir	ed	water table	(Check as	Appropriate).	
The estimated seepag cm/sec percent for	e velocity isa hydraulic gradient ofsoil.	_feet per yea	ar based on <u>ft/ft,</u> and a _l		conductivi	ty of	

	SUMMARY	of SLUG TE	ST (page 3	of.3)				
	SOUTH CAROLINA Department of Health and Environmental Control (DHEC)							
Site Data								
SITE ID#	77.77	COUNTY		Richland				
FACILITY NAME		Cloud's C	Chevron			•		
SLUG DATA			. ,					
	_Table level logs, etc.)(Complete Data was measured by			for a list of		asurements.		
(Hermit Complete the following	Data Logger, Manually g table for each well teste LETE A SECOND SHEE	with Water Led.	evel Indica	tor, etc)(L	ist Method)			
Slug Test Conducted in Initial Rise/Drawdown i	in well (feet)	MW-16 2.09	MW-17D 4.62					
Radius of well casing (Effective Radius of We Static Saturated Aquife	ell (feet)	0.083 0.33 11.83	0.083 0.33					
Length of Well Screen Static Height of Water	(feet)	15 18.17	14.36 15 44.64					
Calculations								
See Appendix The method for aquifer Calculated values by w		Figure NAVFAC	·	for calculat	lions			
Slug Test Conducted in Hydraulic Conductivity	n Well(s) number	MW-16 9.50E-07	MW-17D 7.73E-07			cm/sec		
The aquifer is * Enter Va	alues in Shaded Areas Only	_semi-confin	ned X	water table	(Check as	Appropriate).		
2.01E-04 cm/sec,	e velocity is 72.94 a hydraulic gradient of SLAY soil.	_feet per yea 1.40E-02	ar based or ft/ft, and a	n a hydrauli porosity of	c conductivi	ity of		
	VI III	MARY of SLU	IC TEST					

Groundwater Seepage Velocity Calculations SOUTH CAROLINA Department of Health and Environmental Control (DHEC) Site Data SITE ID# 7777 Richland FACILITY NAME Cloud's Chevron **Hydraulic Conductivity (average)** Hydraulic Conductivity Average = 2.01E-04 cm/sec 5.71E-01 ft./day 3.96E-04 ft./min **Groundwater Seepage Velocity** V = (Ki)/(Ne)* Enter Values in Shaded Areas Only (ft./day) where: K = Hydraulic Conductivity (ft./day) I = Hydraulic Gradient (ft./ft.) Ne = Effective Permeability K= 5.71E-01 ft./day -**I** = 1.00E-02 ft./ft. 0.04 Ne = V = 1.43E-01 ft./day 52.10 ft./year **Groundwater Seepage Velocity Calculations**

Inflow for Type II Well MW-1A

Inflow Permeability Calculation

Cloud's Chevron

Test Performed: 4/9/97

MW-1A

Type II (Uncased Well)

Static:	20.69	ft		*Enter Values in Shaded Areas Only				
Time (min)	Depth	delta H	Ht/Ho	Information from data and plot of Ht/H0 vs time				
0.50	20.78	0.09	1.00	Bore Hole Diameter: 8 in				
1.00	20.77	0.08	0.89	Total Depth of	of Well:	28 fi	t	
2.00	20.75	0.06	0.67	Stand Pip	e Area:	50.27 ii	n^2	
4,00	20,73	0.04	0.44			0:35 fi	t^2	
7.00	20.71	0.02	0.22	Coordinates from	Graph fo	or Slope Cal	c:	
9.50	20.70	0.01	0.11	· H1	/Ho:	printing production of the pro		
		-		. t1:	50 50 30	0.5 n	nin	
				H2	/Ho:	0.89		
				t2:		1 n	nin	
		ı						
				,				
				H1:	0.09	H2:	0.08	
				t1:	0.50	12:	1.00	
			_	Radius	R:	4.00 in	ņ	
				Radius	R:	0.33 fi	t	
				Depth	D:	7.31 fi	t	
		-			R/D:	0.046		
				` :	D/R:	21.93		
	11444 bab (**********************************						(

Shape Factor Determination Value:

0.99 *

*This value is used in conjunction with

Figure 13 of Reference [1] to obtain the shape factor.

Shape Factor

S:

0.1

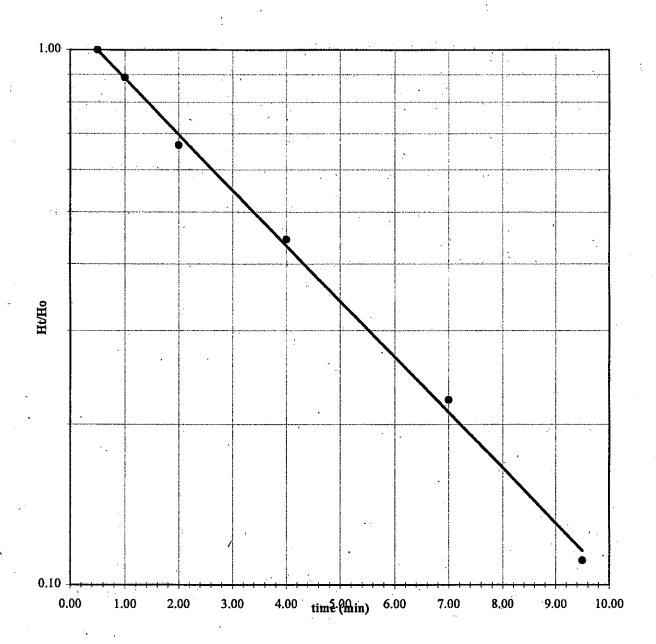
Coeff. of Permeability (K):

5.64E-04 ft/min

8.13E-01 ft/day

2.87E-04 cm/sec

Ref [1]: Naval Fac. Engr. Command, Design Manual 7.01, soil Mechanics







Purchasing Office

SC DHEC

Attn: Procurement Services Division

2600 Bull Street

Columbia SC 29201-1708 Phone:(803) 898-3501 Fax: (803) 898-3505 Invoice To: SC DHEC

Attn: Accounts Payable

2600 Bull Street Columbia SC 29201-1708

Phone: (803) 898-3460 Fax: (803) 253-7637



Purchase Order: 4600322226

Date Issued: 03/11/2014

Validity - From: 01/07/2014 TO: 01/06/2019

PO Number must appear on all Invoices and Delivery Slips.

Payment Terms:

within 30 Days 0.000 Percent Discount.

Vendor:

7000130450

CRAWFORD ENVIRONMENTAL SERVICES 104 CORPORATE BLVD - SUITE 412 WEST COLUMBIA SC 29169

USA

Deliver To:

The State of South Carolina DHEC - Columbia Mills Mailroom 301 Gervais St

COLUMBIA SC 29201-3073

USA

INSTRUCTIONS TO VENDOR

Procurement Officer: E. Madison Winslow, (803) 898-3487 / Program Contact: Susan B. Fulmer, (803) 898-0614 / Contractor Contact: Charles P. Crawford, (540) 798-4205 / Price per IFB-5400007095-1/30/14-EMW, signed by Charles P. Crawford on 1/26/14. / UST corrective action at 07584-07777-12352. / Total Contract Cost: \$540,000.00 / Contract period: January 7, 2014 through January 6, 2019 or until completion or work. / All terms and conditions of the solicitation do apply..

Item No	QTY	Order UOM	Description	Unit Price	Amount
001	540,000	EA	Environmental Consulting Release Order for contract: 4400007922 / 0000000001 Delivery Date:03/07/2015	1.0000	540,000.00
			-	Subtotal:	540,000.00
			A A 1	Total Value: 5	40,000.00 USD

Created By: EDWARD WINSLOW

Authorized Signature

If received electronically, printed name represents authorized signature for this document

All Sales to the State of South Carolina (SC) are subject to the SC sales and use tax laws, unless such sales are otherwise exempt. The Contractor/Vendor will collect such tax as required.



CRAWFORD ENVIRONMENTAL SERVICES



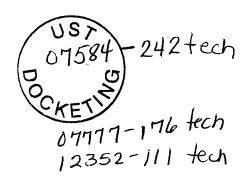
March 24, 2014

Ms. Susan Fulmer, Hydrogeologist Corrective Action Section UST Management Division Bureau of Land and Waste Management SCDHEC 2600 Bull Street Columbia, SC 29201



Cloud's Chevron & University Mart 1600 Two Notch Road, Columbia, SC UST Permits: #07584, 07777 and 12352

CES Number: Pending



Dear Ms. Fulmer

RE:

As we have discussed, attached please find the Quality Assurance Project Plan Addendum for the referenced facility prepared by Crawford Environmental Services, Inc. (CES). CES has completed the site check (March 10, 2014), the assessment plan and contractors addendum to the Master QAPP for the Corrective Action Plan (CAP) and Corrective Action System Evaluations (CASE) to be performed at the above noted facility.

Should you have any questions or comments regarding the attached, please feel free to contact me at 540-798-4205 or by email at crawford@crawfordenvironmental.com.

Best Regards,

CRAWFORD ENVIRONMENTAL SERVICES, INC.

Charles F. Crawford, III

President

SC Rehabilitation Contractor Number: 0388

Attachments:

Appendix A: Quality Assurance Program Plan (Contractor's Addendum) 27 pages

Appendix B: Chain of Custody Template 1 page

Appendix C: Site Figures 2 pages

Appendix D: Methodology - Ferrous Iron 14 pages





APPENDIX A:

QAPP Contractor Addendum



Section A: Project Management

A1 Title and Approval Page

Quality Assurance Project Plan

Addendum (Corrective Action Plan) to the SC DHEC UST Programmatic QAPP

For

Handy Pantry #65 / University Mart & Cloud's Chevron

UST Permit #: 07584, 07777 and 12352

1600 Two Notch Road, Columbia, SC

Prepared by:

Charles F. Crawford, III Crawford Environmental Services 15 Church Ave., SW Roanoke, VA 24015

SCDHEC Site Rehabilitation Contractor Certification Number: UCC-0388

Approvals

Susan Fulmer		Date		
SC DHEC Project Manager	Signature	-		
Charles F. Crawford, III Site Rehabilitation Contractor	Signature	Date	03.21.14	
Daniel J. Fisher Project Verifier	Y Signature	Date	03.21.14	
Ashley Amick Laboratory Director	Signature	Date	03.21.14	
Access Analytical Inc.	. 1			
Mehmet Yildrim	netmetfelde	Date	03.21.14	
Laboratory Director Analytical Environmental Services Inc.,	Signature			

Revision 0 Page 1 of 27 CES QAPPA ver. 5.0 –Sample 3/19/2014



A2 Table of Contents

A3 Distribution A4 Project Organization A5 Problem Definition/Background A6 Project/Task Description A7 Data Quality Objectives (DQOs) and Data Quality Indicators (DQIs) A8 Training and Certificates A9 Documents and Records	3 4 7 7 8 8 10
Section B Measurement/Data Acquisition	11
B1 Sampling Process/Experimental Design	11
B2 Sampling Methods	11
B3 Sample Handling and Custody	15
B4 Analytical Methods	16
B5 Quality Control Requirements	20
B6 Field Instrument and Equipment Testing, Inspection and Maintenance	20
B7 Instrument Calibration and Frequency	22
B8 Inspection/Acceptance Requirements for Supplies and Consumables	23
B9 Data Acquisition Requirements (Non-Direct Measurements)	24
B10 Data Management	25
Section C Assessment and Oversight	26
C1 Assessment and Response Actions	26
C2 Reports and Management	27
Section D Data Validation and Usability	27



A3 Distribution List

Name	Title	Organization/Address	Telephone Number	Fax Number	Email Address
Susan Fulmer	SC DHEC Technical Project Manager	SCDHEC, UST Management Division, 2600 Bull St., Columbia, SC, 29201	803-898-0614	803-896-6245	fulmersb@dhec.sc.gov
Charles F. Crawford	Site Rehabilitation Contractor	Crawford Environmental Services 104 Corporate Blvd. Suite 412 West Columbia, SC 29169	540-798-4205	540-343-6259	ccrawford@crawfordenvironmental.com
Daniel J. Fisher	Project QA/QC Manager and Project Verifier	Crawford Environmental Services 15 Church Ave., SW Roanoke, VA 24011	540-798-5068	540-343-6259	dfisher@crawfordenvironmental.com
Daniel J. Fisher	Project Manager	Crawford Environmental Services 104 Corporate Blvd. Suite 412 West Columbia, SC 29169	540-798-5068	540-343-6259	dfisher@crawfordenvironmental.com
William C. Ewing	Field Manager/ Certified Well Driller	Crawford Environmental Services 104 Corporate Blvd. Suite 412 West Columbia, SC 29169	803-708-0079	803-708-8137	bewing@crawfordenvironmental.com
Ashley Amick	Laboratory Director	Access Analytical, Inc. (AA) 7478 Carlisle Street Irmo, SC 29063	803-781-4243	803-781-4303	aamick@axs-inc.com
Mehmet Yildrim	Laboratory Director	Analytical Environmental (AES) Services Inc. 3785 Presidential Pkwy Atlanta, GA 30340	770-457-8177	770-457-8188	mvildrim@aesatianta.com

Table 1A Addendum Distribution List



A4 Project Organization

Role from the UST Master QAPP	Name of person in this Role for this Project	Organization/Address	Telephone Number	Fax Number	Email Address
Project Manager	Susan Fulmer	SCDHEC, UST Management Division, 2600 Bull St., Columbia, SC, 29201	803-898- 0614	803-896- 6245	fulmersb@dhec.sc.gov
Site Rehabilitation Contractor	Charles F. Crawford	Crawford Environmental Services 104 Corporate Blvd. Suite 412 West Columbia, SC 29169	540-798- 4205	540-343- 6259	ccrawford@crawfordenvironmental.com
Project Manger	Daniel J. Fisher	Crawford Environmental Services 104 Corporate Blvd. Suite 412 West Columbia, SC 29169	540-798- 5068	540-343- 6259	dfisher@crawfordenvironmental.com
Analytical Laboratory Director	Ashley Amick	Access Analytical, Inc. (AA) 7478 Carlisle Street Irmo, SC 29063	803-781- 4243	803-781- 4303	aamick@axs-inc.com
Analytical Laboratory Director	Mehmet Yildrim	Analytical Environmental (AES) Services Inc. 3785 Presidential Pkwy Atlanta, GA 30340	770-457- 8177	770-457- 8188	myildrim@aesatlanta.com
Field Manager/ Certified Well Driller	William C. Ewing	Crawford Environmental Services 104 Corporate Blvd. Suite 412 West Columbia, SC 29169	803-708- 0079	803-708- 8137	bewing@crawfordenvironmental.com
Project QA/QC Manager and Project Verifier	Daniel J. Fisher	Crawford Environmental Services 15 Church Ave., SW Roanoke, VA 24011	540-798- 5068	540-343- 6259	dfisher@crawfordenvironmental.com
Disposal Subcontractor	Vanessa Tremblay	Waste Management 1850 Parkway Place – Suite 600 Marietta GA 30067	803-735- 0808	877-446- 1079	vtrembly@wm.com

Table 2A Addendum Role Identification and Contact Information

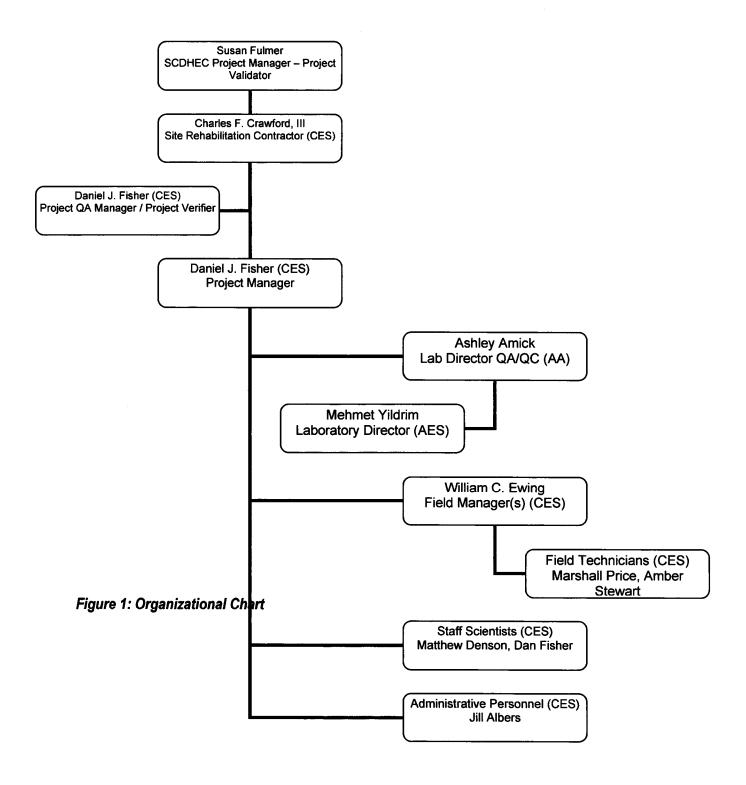
The responsibilities of the participants are as follows:

- 1. **UST Management Project Manager** The UST Management Project Manager (UST Project Manager) is responsible for direct oversight of the contractor conducting this assessment. The UST Project Manager performs the review of the plan and the report associated with this assessment. These reviews include verification and analysis of data submitted to the UST Management Division by the Site Rehabilitation Contractor. The UST Project Manager is responsible for the review of and approval of the site specific QAPP to ensure compliance with the Master QAPP. The UST Project Manager also is responsible for validating data.
- 2. **Site Rehabilitation Contractor** The Site Rehabilitation Contractor is an independent contractor responsible for managing and coordinating field and office activities needed for this assessment.
- 3. **Project Manager** The Project Manager is a representative of the Site Rehabilitation Contractor responsible for the day to day oversight of activities needed to complete this assessment. The Project



Manager is responsible for the submission of plans, updates and reports associated with this assessment.

- **4. Laboratory Analytical Director** The Laboratory Analytical Director represents the Analytical Laboratory that will receive the soil and water samples from the Site Rehabilitation Contractor, performs the requested analyses and provides an analytical report.
- **5. Field Manager** The Field Manager is a representative of the Site Rehabilitation Contractor responsible for the oversight of the contractor technicians and field activities. The Field Manager is responsible for the review / QA of field activities to ensure compliance with the UST Master QAPP and contractor health and safety plans.
- **6. Project QA/QC Manager and Project Verifier** The Project QA/QC Manager and Project Verifier is a representative of the Site Rehabilitation Contractor responsible for the oversight of project activities to ensure quality control is in compliance with the UST Master QAPP.
- **7. Disposal Contractor** The Disposal Contractor is a subcontractor, chosen by the Site Rehabilitation Contractor, which will receive the industry derived waste created during the implementation of this assessment. The Disposal Contractor is responsible for the review of manifests to ensure the disposal is in compliance with the UST Master QAPP.





A5 Problem Definition/Background

Discuss the background (as much as is known) of the site and appropriate historical information, and why this site is being assessed. According to SCDHEC and contractor records an IGWA, Tier 1, Tier II, Corrective Action and several groundwater sampling events were previously completed at this facility. During the previous assessments, several groundwater monitoring wells yielded dissolved-phase concentrations of Chemicals of Concern (CoCs) in exceedance of the risk based screening limits and maximum contaminant limits (RBSLs/MCLs). Refer to Appendix C for site specifics and history.

Please answer the following: Does this project fall under UST or Brownfields area?
UST Area.

A6 Project/Task Description

 Summarize what is known about the work to be done. This can be a short sentence indicating what the Scope of this project is (see Master QAPP Section A6).

Complete Semi-Annual Groundwater/Water Supply Well Sampling Reports [Corrective Action System Evaluation – CASE]. Refer to the Figures provided as Appendix C for details and specifics regarding the locations of monitoring wells.

- 2. The work will begin within:
 - a. Site mobilization / sample collection and laboratory analysis: 1-2 weeks
 - b. De-mobilization and clean-up: 1 week
 - c. Report preparation: 1 week; should additional samples be required to achieve 90% valid samples, the project may be extended. The SCDHEC Project Manger will be contacted via email or telephone if project requires an extension for any reason. (Repeating)
- 3. Are there any time or resource constraints? Include those factors that may interfere with the tentative schedule. Laboratory equipment failures may cause up to a two week delay. Property access issues due to their inherent unpredictability, may cause a delay that will exceed the initial timeframe given for this project. Inclement weather conditions also may cause project delays. No resource constraints are anticipated.



A7 Data Quality Objectives (DQOs) and Data Quality Indicators (DQIs)

Please refer to Appendix C of this QAPP for shallow and deep monitoring well locations. The assessment boundaries are limited to the area necessary to complete this initial groundwater assessment. SCDHEC will be notified during the assessment regarding any accessibility issues.

A8 Training and Certificates

Required training and licenses:

Title/Job	Name	Training Required	Date training received	Type of License	License Number
(CRAWFORD ENVIRONM	MENTAL SERVICES	i, INC. (Last Updated	d March 2014)	
Site Rehabilitation Contractor	Charles F. Crawford	OSHA HASWOPER	-	Class A General Contractor	2705076157
Senior Project Geologist	B. Thomas Houghton	-	-	S.C.P.G.	2343
Project Manager	Daniel J. Fisher	OSHA HASWOPER	December 2013 (OSHA)	-	-
Staff Scientist	Matthew Denson	OSHA HASWOPER	March 2014 (OSHA)	-	
Staff Scientist	Daniel J. Fisher	OSHA HASWOPER	December 2013 (OSHA)	N/A	N/A
Administrative	Jill A. Albers	-	-	-	-
Field Manager	William C. Ewing	OSHA HASWOPER	December 2013 (OSHA)	SCLLR Class B Drilling License	1505
Field Technician	Marshall Price	OSHA HASWOPER	December 2013 (OSHA)		
	Sul	ocontractors (Labs	/ Surveyors)		
Lab Director (AA)	Ashley Amick	N/A	N/A	SC Certified Lab	32575001
Lab Director (AES)	Mehmet Yildrim	N/A	N/A	SC Certified Lab	98016003

Table 3A Required Training and Licenses



Daniel J. Fisher of CES is responsible for ensuring that personnel participating in this project receive the proper training. All personnel training records will be stored at the Corporate office located at 15 Church Avenue, SW in Roanoke, VA 24011.

It is understood that training records will be produced if requested by SC DHEC.

The Following Laboratory(ies) will be used for this Project: <u>Commercial Lab(s)</u>

Full Name of the Contractor performing Lab Analyses: Analytical Environmental Services Inc.

Name of Lab Director: Mehmet Yildrim (QA/QC Ashley Amick- Access Analytical inc.)

SCDHEC Certification Number: SC Cert #: 98016003

Parameters this Laboratory/Contractor will analyze for this project:

BTEX, naphthalene, MTBE via US EPA method 8260B and TBA, TAA and TAME via US EPA method 8260-Oxy

<u>Verification Event(s) Only:</u>

Dissolved Oxygen by method SM4500-O G Ferrous Iron by Kerr Method Nitrate by method 9056/9210 Sulfate by method 9038/9056 Methane by method RSK-175

Please note: SC DHEC may require that the contractor submit some or all of the Laboratory's SOPs as part of this QAPP.

X US Mail Courier X Hand delivered



A9 Documents and Records

Personnel	will receive	the most of	current ve	rsion of the	QAPP	Addendum	via:
(Check all	that apply)						

				
Personnel will re	eceive the QAPP v	∕ia US Mail, Email,	or by downloading	g from the CES
		dates to the Master		

the contractor. CES personnel can access the QAPP by downloading through the internal network system.

Record	Produced By	Hardcopy/ Electronic	Storage Location For how long?	Archival
Field Data Sheets/ Sampling logs	Environmental Contractor	Electronic	At Contractor Office Electronic for 5 Years	Included in Report
Laboratory Data	Laboratory Contractor	Electronic	At Laboratory Electronic for 25 Years	See Lab Archive plan
Weekly Update	Environmental Contractor	Electronic	At Contractors Office Electronic copy for 5 years	Included in Report
Monitoring Report	Environmental Contractor	Electronic/ Hard Copy	At Contractors Office Electronic copy for 5 years	Electronic Copy
Correspondence	Environmental Contractor/ SCDHEC/ Subcontractors	Electronic/ Hard Copy	At Contractors Office Electronic copy for 5 years	Electronic Copy
Invoices	Environmental Contractor	Electronic/ Hard Copy	At Contractors Office Electronic copy for 5 years	Electronic Copy
Manifests	Environmental Contractor	Electronic/ Hard Copy	At Contractors Office Electronic copy for 5 years	Electronic Copy
Figures	Environmental Contractor	Electronic/ Hard Copy	At Contractors Office Electronic copy for 5 years	Electronic Copy
Surveys	Environmental Contractor/ Comprehensive Survey Subcontractor	Electronic/ Hard Copy	At Contractors Office Electronic copy for 5 years	Electronic Copy
Disposal Manifests	Environmental Contractor/ Disposal Subcontractor	Electronic/ Hard Copy	At Contractors Office Electronic copy for 5 years	Electronic Copy

Table 4A Record Identification, Storage, and Disposal



Section B Measurement/Data Acquisition

B1 Sampling Process/Experimental Design

Event	Mobilization/ Sampling / Demobilization	Laboratory Analysis	Report Creation	# Samples	Туре	Events
Groundwater and Surface Water Sampling Event	3-5 days	11 days	7 days	83 / 89*	Semi Annual	10 +2*

Table 5A Sampling Activities

Up to a total of:

0 Soil Samples1008 Water Samples

may be submitted for laboratory analysis.

Groundwater samples will be analyzed for the following parameters:

BTEX, naphthalene, MTBE via US EPA method 8260B and TBA, TAA and TAME via EPA method SW-846 8260-Oxy

Verification Event(s) Only:

Dissolved Oxygen by method SM4500-O G Ferrous Iron by Kerr Method Nitrate by method 9056/9210 Sulfate by method 9038/9056 Methane by method RSK-175

Field blanks and duplicates will be obtained for groundwater samples (1 per every 20 samples collected). Trip blanks will be obtained for every 20 samples and/or per every cooler used during the assessment.

The contractor will follow sampling protocols as outlined in the UST QAPP. These totals are anticipated to be maximums. The actual number of samples collected and submitted for laboratory analysis will be dependent upon the effort required to complete the scope of work.



Estimate the number of samples of each matrix that are expected to be collected:

Note: numbers provided are intended as a maximum probable under the current plan

Groundwater / Water Supply Well Sampling Event

Water Supply Well Sampling Event

Sample Type		ount px)	Sample Type	Amount (apx)
Soil		0	Soil	0
Soil Duplicates		0	Soil Duplicates	0
Field Blank		0	Field Blank	0
Trip Blank		0	Trip Blank	0
Total Soil Samples	ı	0	Total Soil Samples	0
Groundwater from Monitoring Well Sampling (MWS)		70	Groundwater from Monitoring Well Sampling	0
Groundwater from verification wells	6		(MWS)	
Water from water wells	0	0	Water from water wells	0
Water from surface features	1	1	Water from surface features	0
Field Blanks	4	4	Field Blanks	0
Trip Blanks	4	4	Trip Blanks	0
Duplicates	4	4	Duplicates	0
Total	83	89	Total	0
# of events (Standard / Verification)	10	2	# of events	0
TOTAL	10	80	TOTAL	
TOTAL			1008	

If any of the above are circled please indicate how will it be done and the equipment needed. Sample collection that results in groundwater chemical analysis will include depth to water, depth to product, and groundwater quality indicators. Sampling will include gauging the depth to water and/or depth to free product utilizing an electronic water level indicator or similar device capable of recording the water level or thickness of any free product to an accuracy of 0.01 feet. Measurements of groundwater quality indicators (pH, temperature, D.O. turbidity and specific conductivity) will be recorded during sampling to ensure that groundwater quality is representative of the formation prior to collection of samples. Groundwater samples will be collected from a monitoring well by manual bailing using disposable polyethylene bailers. One sample will be collected from each monitoring well beginning with the wells on the outside perimeter of the contamination plume and working from the wells exhibiting the lowest CoC's to the highest CoC's. Sample duplicates will be collected per every 20 samples. For sample collection the bailer will be slowly lowered into the well until the top of the bailer has penetrated the water table surface, and slowly removed once full. Purge waters will be containerized on site and disposed of properly. The sample containers will then be placed in a cooler and delivered to AA laboratories.



Will Sampling Equipment have to be cleaned and decontaminated or is everything disposable? Decontamination procedures will be the responsibility of the CES Field Technicians; ultimately reviewed and approved by the Field Manager. As outlined in Appendix A of the UST Guidance Document "QAPP Revision 1", all reusable sampling equipment will be stainless steel or constructed of a material that is compatible with the specified analysis and will be cleaned prior to and following the collection of each sample. Disposable bailers, string and gloves will be utilized for sample collection and will be disposed of after use.

If sampling equipment must be cleaned please give a detailed description of how this is done and the disposal of by-products from the cleaning and decontamination. pH, specific conductance, dissolved oxygen, and temperature meters [parameter devices] and water meter probes [sampling equipment] will be decontaminated between monitoring wells. In the field, parameter meter probes will be decontaminated utilizing deionized water. Each meter will be rinsed and then allowed to air dry. Decontamination waste from the cleaning processes will be contained and disposed of with the associated IDW for the site.

Sampling equipment and/or instruments will be decontaminated by washing with a laboratory-grade detergent such as Alconox, rinsed with tap water and then rinsed with analyte free water. If the equipment is not used immediately, it will be covered in plastic and stored in a clean, dry place. If required by UST Project Manager, verification of the effectiveness of the decontamination procedure will be acquired through equipment rinsate samples.

Identify any equipment and support facilities needed. This may include such things as Fed-ex to ship the samples, a Geoprobe, field analysis done by another contractor (who must be certified), and electricity to run sampling equipment.

Access Analytical will be the laboratory and is responsible for shipment of all samples (via Federal Express) to the subcontracted laboratory of AES.



Address the actions to be taken when problems occur in the field, and the person responsible for taking corrective action and how the corrective action will be documented.

Failure	Response	Documentation	Individual Responsible
Equipment Failure (Drilling) {le. Drill rig, concrete}	Contact CES project manager. Use alternative equipment if available. Initiate field repairs if possible	Identify failure. Log date, time and equipment.	Field Manager William C. Ewing 803-708-0079
Equipment Failure (sampling) {ie. Parameter meters, pump failure, calibration error}	Contact CES project manager. Use alternative equipment if available. Initiate field repairs if possible.	Identify failure. Log date, time and equipment.	Field Manager William C. Ewing 803-708-0079
Loss or delay of lab samples	Resample	Notice by Access of lost or delayed samples	Access Analytical Ashley Amick 803-781-4243
Drilling Refusal (Rock)	Contact CES project manager. Contact SCDHEC project manager	Log location, time and depth.	Field Manager William C. Ewing 803-708-0079
Drilling Issue (utility line impact etc.)	Contact CES project Manager, Contact Palmetto Utilities Protection Service.	Log location, time and depth.	Field Manager William C. Ewing 803-708-0079
Passive Diffusion Bag deployment / sampling failure	Redeploy. Use alternate method if applicable.	Log location, time and equipment.	Field Manager William C. Ewing 803-708-0079
Snap collector deployment failure.	Redeploy. Use alternate method if applicable.	Log location, time and equipment.	Field Manager William C. Ewing 803-708-0079
Lost samples in the lab	Resample	Email from lab to CES project manager and QA/ project verifier	Access Analytical Ashley Amick 803-781-4243
Sample failure (hold time limit exceeded/temperature limit exceeded	Contact CES project manager	Email from lab to CES project manager and QA/ project verifier	Access Analytical Ashley Amick 803-781-4243

Table 6A Field Corrective Action



B3 Sample Handling and Custody

- 1. How will the samples get from the Site to the Lab to ensure holding requirements are met? Samples will be delivered to Access Analytical by CES personnel within 24-72 hours of sample collection. Access Analytical will then ship the samples via Federal Express to AES. Temperature and condition of the samples will be verified upon arrival at both Access Analytical and AES.
- 2. How will the contactors cool the samples and keep the samples cool?

 Sample containers will be maintained in a refrigerator or cooler filled with ice until they are shipped. Appropriate shipping containers for samples include insulated polypropylene or aluminum-clad coolers. The coolers should contain ice in a sealed container or other cooling source to maintain a temperature of 6°C in the container and to prevent degradation of the samples
- 3. How will the lab determine the temperature of the samples upon receipt? Will they be using a temperature blank? Project laboratories will use a certified thermometer to determine at-receipt sample temperatures. The temperature will be recorded on the chain-of-custody, temperature blanks will be used.
- 4. Where will the samples be stored in the Lab once they are received? Samples to be shipped for analysis will be handled and packaged in a manner that maintains a complete chain-of-custody record and prevents damage during shipment. All samples will be transported to the laboratory directly or by a commercial carrier. When using a commercial carrier, a custody seal will be used to preserve the integrity of the sample from the time it is collected until the container is opened in the laboratory. Samples received at project laboratories will be kept in secure refrigerators.
- 5. Describe the chain of custody procedure and attach a copy of each chain of custody that will be used. If a Chain of Custody SOP exists from the Lab and the Contractor is willing to adhere to it, then this may be attached.

 A chain-of-custody record supplied by the contracted laboratory will be used to document and track possession of the samples. The chain-of-custody record will be sent with each sample shipment from the field to the laboratory and will serve as a record for the receipt of samples by the laboratory. Copies of the chain-of custodies are included as Appendix E.



B4 Analytical Methods

1. Identify the SOPs which will be used to analyze the samples, the method which the SOP references and the equipment or instrumentation that is needed:

Parameter	SOP ID*	Method Referenced	Equipment	Comments
рН	Section 2.10	SM 4500 H+B	HACH SenselON 156 HANNA HI	Refer section 2.10 CES SOP
Specific Conductance	Section 2.10	SM2510B	HACH SenselON 156 HANNA HI	Refer section 2.10 CES SOP
Temperature	Section 2.10	SM2550B	HACH SenselON 156 HANNA HI	Refer section 2.10 CES SOP
Dissolved Oxygen	Section 2.10	SM4500-O-G	HACH SenselON 156 HANNA HI	Refer section 2.10 CES SOP
Turbidity	Section 2.10	Method 8237	HACH DR-820	Refer section 2.10 CES SOP
BTEX, naphthalene, and MTBE	OA 11010	EPA Method 8260B	AES QAP p.195	AES SOP OA 11010 APDX III CES SOP
TAA, TAME and TBA	OA 11010	EPA Method 8260-Oxy	AES QAP p.195	AES SOP OA 11010 APDX III CES SOP
Nitrate	OA 11007	9056/9210	AES QAP p.195	AES SOP OA 11007 APDX III CES SOP
Sulfate	OA 11007	9038/9056	AES QAP p.195	AES SOP OA 11007 APDX III CES SOP
Ferrous Iron	OA 11007	SM3500-Fe	AES QAP p.195	AES SOP OA 11007 APDX III CES SOP
Methane	OA 11007	Kerr Method	AES QAP p.195	AES SOP OA 11007 APDX III CES SOP

Table 7A Analytical SOPs and Referenced Methods



• This can be a full name of a SOP, an abbreviation, or a number. In the latter two cases, the abbreviation or number must be associated with the full name of the SOP. See also Table 8A SOP Abbreviation Key.

Abbreviation	Lab Identification of this SOP	Full Name of the SOP
Section 2.10	CES SOP Section 2.10	State Lead Tier II Assessment Program: Standard Operating Procedure & Quality Assurance/Quality Control
OA 11010	AES SOP OA-11010	Analytical Environmental Services Standard Operating Procedure for Volatile Organic Compound by EPA SW-846 Method 8260B/5030/5035
OA 13002	AES SOP OA-13002	Analytical Environmental Services Standard Operating Procedure Determination of Metals in Water, Soils and Wastes by ICPBY EPA SW-846 Method 6010C and Prep Methods 3010A/3050B/SM3030C
OA 11007	AES SOP OA-11007	Analytical Environmental Services Standard Operating Procedure for 1,2-Dibromoethane (EDB) and 1,2-Bibromo-3-chloropropane (DBCP) by EPA SW-846 Method 8011
AES QAP Section 9.0	AES QAP Rev 15	Access Analytical, Inc. & Analytical Environmental Services (AES) Comprehensive Quality Assurance Plan (Revision 15): Section 9.0 Calibration Procedures and Frequency

Table 8A: SOP Abbreviation Key



2. Identify procedures to follow when failures occur, identify the individual responsible for corrective action and appropriate documentation:

Failure	Response	Documented Where?	Individual Responsible
Equipment Failure (drilling equipment) i.e. drill rig, concrete saw, etc.		Record problem, use alternate method / equipment if available / applicable or reschedule field activities after equipment is repaired	CES Project Manager Daniel J. Fisher 540-798-5068
Equipment Failure (sampling equipment) i.e. passive diffusion bags, parameter meters	Contact CES Project Manager	Record problem, use alternate method if applicable/ available or reschedule field activities after equipment is repaired.	CES Project Manager Daniel J. Fisher 540-798-5068
QC Failure	Contact CES Project Manager	Notification/Documentation via email, noted in laboratory report	CES Project Manager Daniel J. Fisher 540-798-5068
Sample accident in transit	Contact CES Project Manager	Notification/Documentation via email, noted in laboratory report	Laboratory Director (AA) Ashley Amick 803-781-4243
Sample accident in lab	Contact CES Project Manager	Notification/Documentation via email, noted in laboratory report	Laboratory Director (AA) Ashley Amick 803-781-4243
Insufficient sample for analysis or repeat analysis	Contact CES Project Manager	Notification/Documentation via email, noted in laboratory report	Laboratory Director (AA) Ashley Amick 803-781-4243
Analytical Errors	Contact CES Project Manager	Notification/Documentation via email, noted in laboratory report.	CES Project Manager Daniel J. Fisher 540-798-5068
CoC or Sample Receiving Issues	Contact CES Project Manager	Notification/Documentation via email, noted in laboratory report.	CES Project Manager Daniel J. Fisher 540-798-5068
On-Time delivery	Contact CES Project Manager	Notification/Documentation via email, noted in laboratory report.	CES Project Manager Daniel J. Fisher 540-798-5068

Table 9A Corrective Action Procedures



3. Identify sample disposal procedures.

Analysis	Matrix	Schedule for disposal	Method for disposal	Comments
Turbidity	Groundwater	As Generated	If applicable, a portable granulated carbon filter will be used. 55 gallon drum on site	A&D Environmental Services
DO	Groundwater	As Generated	If applicable, a portable granulated carbon filter will be used. 55 gallon drum on site	A&D Environmental Services
Specific Conductance	Groundwater	As Generated	If applicable, a portable granulated carbon filter will be used. 55 gallon drum on site	A&D Environmental Services
pН	Groundwater	As Generated	If applicable, a portable granulated carbon filter will be used. 55 gallon drum on site	A&D Environmental Services
Lab	All	As Generated	See AES SOP WM 17001	Analytical Environmental Services Inc.

Table 10A Sample Disposal

4. Provide SOPs for the Kerr Method or the Ferrous Iron Method if these are parameters for this study. This can be attached or written here. If attached please note that it is an attachment and where it is located (if applicable). Refer to Appendix D.



B5 Quality Control Requirements:

All QC will follow the requirements laid out in Section B5 of the UST Programmatic QAPP.

B6 Field Instrument and Equipment Testing, Inspection and Maintenance

1. Identify all field and laboratory equipment needing periodic maintenance, the schedule for this, and the person responsible. Not the availability and location of spare parts.

Instrument	Serial Number	Type of Maintenance	Frequency	Parts needed/Location	Person responsible
HACH SenseION 156 Parameter Meter (ph, Con, temp, DO)	8228266	Check batteries, check buffer solutions, calibration, factory check, clean/change probe(s)	Monthly, change out daily as needed	Columbia Office, Supply Cabinet	CES Project Manager Daniel J. Fisher 540-798-5068
HACH Colorimeter (turbidity)	010420015672	Check batteries, check buffer solutions, calibration, factory check,	Monthly, change out daily as needed	Columbia Office, Supply Cabinet	CES Project Manager Daniel J. Fisher 540-798-5068
HANNA HI 991001 Parameter Meter (pH, Temp)	182298	Check batteries, check buffer solutions, calibration, factory check, clean/change probe(s)	Monthly, change out daily as needed	Columbia Office, Supply Cabinet	CES Project Manager Daniel J. Fisher 540-798-5068
HANNA Dissolved Oxygen Meter	9142	Check batteries, check buffer solutions, calibration, factory check, clean/change probe(s)	Monthly, change out daily as needed	Columbia Office, Supply Cabinet	CES Project Manager Daniel J. Fisher 540-798-5068
KECK Water Level Indicator	2185	Check batteries, clean probe	Weekly	Columbia Office, Supply Cabinet	CES Project Manager Daniel J. Fisher 540-798-5068
KECK Oil Interface Probe	2011	Check batteries, clean probe	Weekly	Columbia Office, Supply Cabinet	CES Project Manager Daniel J. Fisher 540-798-5068
Solonist Water Level Indicator	004602	Check batteries, clean probe	Weekly	Columbia Office, Supply Cabinet	CES Project Manager Daniel J. Fisher 540-798-5068
Laboratory Equipment	P. 195 AES QAP Apdx III Equipment List	p.122 AES QAP Section 10.0	AES QAP Section 10.0	AES QAP Section 10.0	Laboratory Personnel

Table 11A Instrument and Equipment Maintenance



2. Identify the testing criteria for each lab or field instrument that is used to ensure the equipment is performing properly. Indicate how deficiencies, if found, will be resolved, re-inspections performed, and effectiveness of corrective action determined and documented. Give the person responsible for this:

Instrument/Equipment & Serial Number	Type of Inspection	Requirement	Individual Responsible	Resolution of Deficiencies
HACH SenseION 156 Parameter Meter (ph, Con, temp, DO)	Calibration	See CES SOP Section 2.10	Daniel J. Fisher CES Project Manager 540-798-5068	Use another meter
HACH Colorimeter (turbidity)	Calibration	See CES SOP Section 2.10	Daniel J. Fisher CES Project Manager 540-798-5068	Use another meter
HANNA HI 991001 Parameter Meter (pH, Temp)	Calibration	See CES SOP Section 2.10	Daniel J. Fisher CES Project Manager 540-798-5068	Use another meter
HANNA Dissolved Oxygen Meter	Calibration	See CES SOP Section 2.10	Daniel J. Fisher CES Project Manager 540-798-5068	Use another meter
KECK Water Level Indicator	Preparatory Check	See CES SOP Section 2.10	Daniel J. Fisher CES Project Manager 540-798-5068	Use another meter
KECK Oil Interface Probe	Preparatory Check	See CES SOP Section 2.10	Daniel J. Fisher CES Project Manager 540-798-5068	Use another meter
Solonist Water Level Indicator	Preparatory Check	See CES SOP Section 2.10	Daniel J. Fisher CES Project Manager 540-798-5068	Use another meter
Laboratory Equipment	p.116 AES QAP Section 9.0	p.116 AES QAP Section 9.0	Laboratory Personnel	AES QAP Section 9.0

Table 12A Instrument and Equipment Inspection



B7 Instrument Calibration and Frequency

- 1. Identify equipment, tools, and instruments for field or lab work that should be calibrated and the frequency.
- 2. Describe how the calibrations should be performed and documented, indicating test criteria and standards or certified equipment.
- 3. Identify how deficiencies should be resolved and documented. Identify the person responsible for corrective action.

Instrument	Calibration	Frequency of	Acceptance	Corrective Action	Person	SOP
	Procedure	Calibration	Criteria	(CA)	Responsible	Reference*
					for CA	
HACH SenseION 156	See CES SOP	See CES SOP Section	See CES SOP	See CES SOP	Daniel J. Fisher	See CES SOP
Parameter Meter	Section 2.10	2.10, pg 11, Daily	Section 2.10	Section 2.10	CES Project Manager	Section 2.10
(ph, Con, temp,		Before Use			540-798-5068	
DO)						
HACH	See CES SOP	See CES SOP Section	See CES SOP	See CES SOP	Daniel J. Fisher	See CES SOP
Colorimeter	Section 2.10	2.10, pg 11, Daily	Section 2.10	Section 2.10	CES Project	Section 2.10
(turbidity)		Before Use			Manager 540-798-5068	
HANNA HI 991001	See CES SOP	See CES SOP Section	See CES SOP	See CES SOP	Daniel J. Fisher	See CES SOP
Parameter Meter	Section 2.10	2.10, pg 11, Daily	Section 2.10	Section 2.10	CES Project Manager	Section 2.10
(pH, Temp)		Before Use			540-798-5068	
HANNA	See CES SOP	See CES SOP Section	See CES SOP	See CES SOP	Daniel J. Fisher	See CES SOP
Dissolved Oxygen	Section 2.10	2.10, pg 11, Daily	Section 2.10	Section 2.10	CES Project	Section 2.10
Meter		Before Use			Manager 540-798-5068	
KECK	See CES SOP	See CES SOP Section	See CES SOP	See CES SOP	Daniel J. Fisher	See CES SOP
Water Level	Section 2.10	2.10, pg 11, Daily	Section 2.10	Section 2.10	CES Project	Section 2.10
Indicator		Before Use			Manager 540-798-5068	
KECK Oil	See CES SOP	See CES SOP Section	See CES SOP	See CES SOP	Daniel J. Fisher	See CES SOP
Interface Probe	Section 2.10	2.10, pg 11, Daily	Section 2.10	Section 2.10	CES Project	Section 2.10
		Before Use			Manager 540-798-5068	
Solonist Water	See CES SOP	See CES SOP Section	See CES SOP	See CES SOP	Daniel J. Fisher	See CES SOP
Level Indicator	Section 2.10	2.10, pg 11, Daily	Section 2.10	Section 2.10	CES Project	Section 2.10
		Before Use			Manager 540-798-5068	
Laboratory	See-AES QAP	See-AES QAP Section	See-AES QAP	See-AES QAP	Laboratory	See-AES QAP
Equipment	Section 9.0	9.0	Section 9.0	Section 9.0	Personnel	Section 9.0

Table 13A Instrument Calibration Criteria and Corrective Action

^{*} This can be a full name of a SOP, an abbreviation, or a number. In the latter two cases, the abbreviation or number must be associated with the full name of the SOP. See also Table 8A SOP Abbreviation Key.



B8 Inspection/Acceptance Requirements for Supplies and Consumables

- 1. Identify critical supplies and consumables for field and laboratory, noting supply source, acceptance criteria, and procedures for tracking, storing and retrieving these materials.
- 2. Identify the individual(s) responsible for this.

Item	Vendor	Acceptance criteria	Handling/Storage Conditions	Person responsible for inspection and tracking.
pH Buffer Solution	Fisher	Within expiration date	Cool. Dry cabinet	Daniel J. Fisher CES Project Manager 540-798-5068
Specific Conductivity Standard	Fisher	Within expiration date	Cool, dry cabinet	Daniel J. Fisher CES Project Manager 540-798-5068
Nitrile Gloves	Clearwater	Sealed	Cool, dry room	Daniel J. Fisher CES Project Manager 540-798-5068
Batteries	Апу	Sealed	Cool, dry cabinet	William C. Ewing Field Manager 803-708-0079
Bailers	Clearwater	Sealed (individually)	Cool, dry room	William C. Ewing Field Manager 803-708-0079
Bottles	Access Analytical	Sealed	Cool, dry room	William C. Ewing Field Manager 803-708-0079
Nylon String	Clearwater	Sealed	Cool,dry room	William C. Ewing Field Manager 803-708-0079
Coolers	Access Analytical	Sealed	Cool,dry room	William C. Ewing Field Manager 803-708-0079
Laboratory Equipment	AES	AES QAP Section 11.0	AES QAP Section 11.0	Laboratory Personnel (AES) & (AA)

Table 14A List of Consumables and Acceptance Criteria



B9 Data Acquisition Requirements (Non-Direct Measurements)

- 1. Identify data sources, for example, computer databases or literature files, or models that should be accessed or used.
- 2. Describe the intended use of this information and the rationale for their selection, i.e., its relevance to project.
- 3. Indicate the acceptance criteria for these data sources and/or models.

Data Source	Used for	Justification for use in this project	Comments
Previous Assessment	Remedial efforts	Effectiveness of	
and Corrective Action	performed to date;	remedial strategy	
documentation	historic groundwater	implemented at the site,	
	elevations, historic	evaluate corrective	
	chemical concentrations,	action data collected;	
	historic well construction	determining well screen	
	logs, historic surveys,	intervals, total depths,	
	historic diagrams,	construction details,	
	historic topography,	property access, and	
	historic boring data.	historic summary tables.	

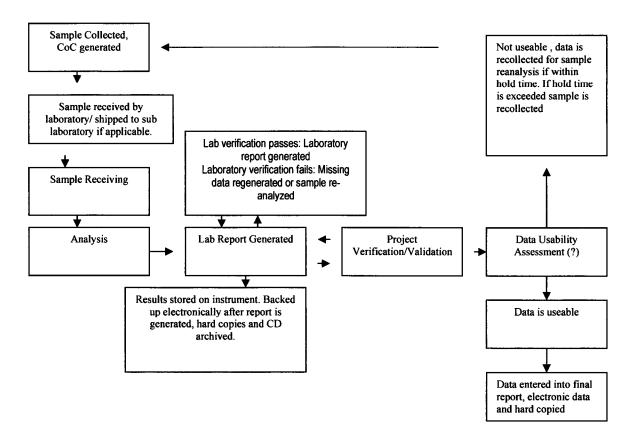
Table 15A Non-Direct Measurements

4. Identify key resources/support facilities needed. Not applicable.



B10 Data Management

Describe the data management scheme from field to final use and storage.



- 1. How does the lab and field staff ensure that no unauthorized changes are made to the chain of custody, sampling notebooks, laboratory notebooks and computer records? Field data is kept in a dedicated notebook with no pages removed. All data (reports from the lab, field notes, drafts and final reports) are saved on the internal company server. Original field data hard copies are filed into relevant project folders and archived in filing cabinets. Report data, to include tables and figures, are verified from the original source by the CES Project Manager before the report is signed.
- 2. How does the lab ensure that there are no errors in samples records including times when sample information is compiled, data calculated and/or transmitted. Lab internal QA/QC checks and check sheets for all received coolers will determine if laboratory data is credible, or if the groundwater samples are suspect and new samples must be collected and reanalyzed. Laboratory supervisor will check all data before it leaves the laboratory. Laboratory data will be sent electronically to the environmental contractors of the USA for storage on their server.



3. How will the data be archived once the report is produced? How can it be retrieved? (This applies to both electronic and hard copies). Hard copies will be maintained at the West Columbia office for five years. The electronic copies will be maintained for 25 years at the West Columbia office.

Section C Assessment and Oversight C1 Assessment and Response Actions

- 1. Field Oversight: The Field Manager is responsible for ensuring SOPs to include equipment decontamination and calibration are properly conducted by the field staff. The Field Manager will be present and monitor the field staff every day that field activities occur. The Field Manager also is responsible for ensuring that field personnel adhere to the QAPP. If problems occur, the Field Manager will immediately contact the CES Project Manager to determine the appropriate corrective action. If the situation cannot be resolved on site, another visit will be scheduled to resample the wells. The Field Manager can stop work at any time. The Project Manager can decide if the sampling party will return to the office without completing sampling of all the monitoring wells. The Field Manager's observations will be submitted to the Project Manager on a daily basis.
- 2. Commercial Lab Offsite Technical Assessment: The supervisors for each section will review the procedures for another section of the laboratory on a monthly basis to check quality procedures. The Project QA Manager will conduct specific assessments for the methods addressed by this QAPP. Anyone may suspend work if a situation arises, but only the supervisor can stop work. The Laboratory QA Manager will report all observations to the Laboratory Director. SCDHEC has the right to inspect work at any time. This will be documented and kept as part of the project records.
- 3. Project Assessment: Assessment of project activities will be performed by the CES Project Manager. Field assessments will ensure that proper field methods are followed. At the end of each day of field activities, the Subcontractor Project Manager will review the work completed during that day with the Subcontractor Field Manager. If methods were not adequately followed, affected items will be corrected. If corrective action is implemented, the Subcontractor Project Manager or Project QA/QC Manager will verify that the corrective action was adequate and was properly documented.



C2 Reports to Management

See the SC DHEC UST Programmatic QAPP (UST Master QAPP).

Section D Data Validation and Usability

See the SC DHEC UST Programmatic QAPP (UST Master QAPP).



APPENDIX B:

Chain of Custody Template

LAB USE ONLY	Access Ana	lytical -	Chain of C	ustod	y Recor	d Projec	t Work Orde	r #	
Sales Order #	PO #	****	Access Qu	ıote #		Labor	atory ID:	W. P	
Company Name:	Preserv (*see co					nessaterone con l'emplimation de la della ma	9 A	CCESS	
Report To:	Contain (*see co	ner Type: odes)				0	, A	NALYTICAL	, Inc.
Address:					-	7478 Carlis	le Street	Phone: (803)	781-4243
City: State: Zip	D:	LYSIS:				Irmo, SC 29	0063 www.axs-i	rc.com	781-4303
Phone: Fax:		LAB ANALYSIS:				*Preservative Co 0 = None, 1 = HC 8 = Method 5035	des (place correspond L, 2 = HNOs, 3 = HsSC set w/ NaHSOs & CHA	ling # in block above 0-, 4 = NaOH, 5 = Na OH, 7 = NaOH/ZnO∯	analysis field): uSiOs, _{UC} , 8 = HiPOs
Email:		DLAB				"Matrix Codes (p GW = ground wat SL = sludge, A =	lace corresponding co er, WW = waste water air, IW = industrial was ents section)	de in matrix column). DW = drinking wate ste, WO = waste oil,	er, S = soil, OT = other
Project ID:		REQUESTED					ints section) odes: CWA = Clean ler Act (for drinking wa		
Sampled By:						*Container Type	ground waters and wa G = Glass, P =	Plastic	
Sample ID/Description Date Time Collected: Collec	Type: Matrix: Program TOTAL (grab or composite) (see codes) Area (see codes) container					(if sample is a c	NOTES / CO	DMMENTS below to note start/finish	rtimes & dates)
		ooncaben contration contration per per per per per per per per per per							
		on concession on concession to per analysis						,	
		o consistent collected collected per per tradysts							
		* of an objected							unganam ann madamamin an ann a
		od Conference of the conferenc							
		o de collecte de c					•		
		en containe of colorad a calcuta							
		o o contrain of the part of th							
		o de comença de començ							
Turnaround Time: Period Location	Relinquished	800 → m	Received By:	20 10 10 See 10	Date	Time (24HR)	Samples Rec'd	Sample Ter	mp. Upon
Project Locati	on:	91.	Tipodivide by:		(mm-dd-yy)	(24HR)	on Ice Y N	Receip	
StandardSCSCRUSH*SCNC							YN	(°C)	(N/A)
(For rush work, results	er						YN	(°C)	(N/A)
emailed/faxed by end of business day on date required)							YN	(°C)	(N/A
				•••			Origina	Conv - Returned	



APPENDIX C:

Site Figures

FIGURE 1

Site Location Map Handy Pantry #65 / University Mart / Clouds Chevron Intersection of Taylor Street and Two Notch Road Columbia, South Carolina



15 Church Avenue, SW Roanoke Virginia, 24011

540-343-6256 (office) 540-343-6259 (fax)

NORTH COLUMBIA, SOUTH CAROLINA

U.S.G.S. Topographic Map of the Columbia North Quadrangle, Virginia, 7.5 Minute Series (1977, revised 1988) Source:

Contour Interval: 20 Feet National Geodetic Vertical Scale: 1:24,000 Vertical Datum:

Datum 1929

Horizontal Datum: North American Datum1927

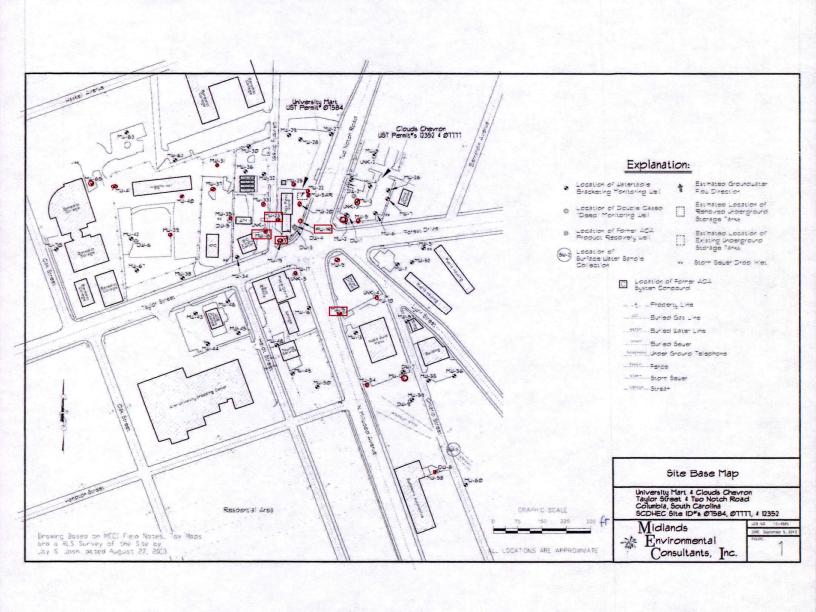
Project: Corrective Action Plan

Client: SCDHEC

CES Job #: 7.0547



Latitude: 034"00'42.72"N Longitude: 081"01'00.13"W





APPENDIX D:

Methodology – Ferrous Iron 14 pages

SOP No.: Date Initiated: Date Revised:

GL-08102 12/98 06/10

Revision No.: Page No.:

Page 1 of 14

APPROVAL OF ATTACHED DOCUMENT FOR IMPLEMENTATION

NOTE: THIS IS A CONTROLLED ELECTRONIC DOCUMENT

<u>PRINTED COPIES OF THIS DOCUMENT ARE UNCONTROLLED</u> ORIGINAL SIGNED DOCUMENT RESIDES IN AES QA OFFICE

DOCUMENT TITLE: STANDARD OPERATING PROCEDURES FOR DETERMINING FERROUS IRON (Fe⁺²) BY STANDARD METHODS 3500Fe B (20th Edition)

DOCUMENT CONTROL NUMBER: Rev. 6

DOCUMENT DISTRIBUTION NUMBER: GL-08102

ELECTRONIC DOCUMENT LOCATION AES Portal Server: http://portal/Procedures/ Standard Operating Procedures

The attached Document has been reviewed by the individuals listed below. By signature, each of these individuals acknowledges that the document is ready for distribution, in a controlled manner, to all responsible parties for use and/or reference.

By definition, a "Controlled Copy" of a document cannot be changed without review and approval by designated members of management. At no time may a "controlled copy" be written on or otherwise defaced with notes or other unauthorized additions.

If an uncontrolled copy of this document is desired, please see the Quality Assurance or Laboratory Manager. They will issue you an uncontrolled copy. DO NOT MAKE THE COPY YOURSELF.

By signature below the following employees of Analytical Environmental Services, Inc. have approved this document for distribution.

Technical Director: Oaxa B. Jiii

Laboratory Manager:

Quality Assurance Manager:

Date: 6/28/10

Date: 6/28/10

Date: 6/28/10

Department Supervisor:

Date: 6/28/10

SOP No.: Date Initiated: 12/98 Date Revised: 06/10

GL-08102 Revision No.: 6

Page No.:

Page 2 of 14

STANDARD OPERATING PROCEDURES FOR DETERMINING FERROUS IRON (Fe $^{+2}$) BY STANDARD METHODS 3500Fe B (20th Edition)

TABLE OF CONTENTS

	<u>Page</u>
1.0	SCOPE AND APPLICATION4
2.0	SUMMARY OF METHOD4
3.0	INTERFERENCES4
4.0	SAMPLE COLLECTION, PRESERVATION, AND HOLDING TIMES4
5.0	REAGENTS AND STANDARDS4
6.0	APPARATUS AND MATERIALS 6
7.0	PROCEDURE6
8.0	QUALITY ASSURANCE REQUIREMENTS
9.0	HEALTH SAFETY REQUIREMENTS
10.0	DATA REPORTING11
11.0	FILE MAINTENANCE 12
12.0	INSTRUMENT MAINTENANCE
13.0	METHOD PERFORMANCE12
14.0	POLLUTION MANAGEMENT
15.0	DEFINITIONS
16.0	REFERENCES
17.0	VALIDATION DATA14

SOP No.: GL-08102
Date Initiated: 12/98
Date Revised: 06/10
Revision No.: 6
Page No.: Page 3 of 14

TABLE 5-1	Calibration Standards for Ferrous Iron	4
TABLE 5-2	Ferrous Iron Standards and Chemicals	5
TABLE 7-1	Samples in a NELAC Batch	7
TABLE 7-2	Checklist for Ferrous Iron Analysis by SM3500	Ç

SOP No.: GL-08102 Date Initiated: 12/98 Date Revised: 06/10 Revision No.: 6

Page No.: Page 4 of 14

1.0 SCOPE AND APPLICATION

This procedure is used to determine concentrations of Fe⁺² ions in water and ground water. Ferrous (dissolved) Iron is soluble in water. Dissolved levels of iron in waters may stain clothing and porcelain. In this regard, dissolved iron is more of a nuisance than a health hazard.

2.0 SUMMARY OF METHOD

- 2.1 Iron in the reduced state is treated with 1,10-Phenanthroline at a pH of 3.2 to 3.3. Three molecules of 1,10-Phenanthroline chelate one molecule of Fe⁺² to form an orange-red complex that is spectrophotmetrically measured at 510 nm. The amount of ferrous iron is calculated from a standard curve.
- 2.2. If Ferric Iron is desired, it can be calculated as the difference of the Total Iron result (analyzed by ICP) minus the result for the Ferrous Iron.

3.0 <u>INTERFERENCES</u>

- 3.1 Strong oxidizing agents, cyanide, nitrite, phosphates, and common metals interfere with the test procedure. In addition, silver precipitates phenanthroline and causes low results.
- 3.2 The initial boiling with acid converts polyphosphates to orthophosphate and removes cyanides and nitrite that would otherwise interfere. Boiling the sample with hydroxylamine reduces soluble ferric iron to ferrous iron. Boiling should not be performed when measuring only ferrous iron. Adding excess hydroxylamine eliminates error caused by high concentrations of strong oxidizing reagents. In the presence of interfering metal ions, use a larger excess of phenanthroline to replace that complexed by the interfering metals.
- 3.3 If noticeable amounts of color or organic matter are present, it may be necessary to evaporate the sample, gently ash the residue and redissolve in acid. The ashing may be carried out in silica, porcelain, or platinum crucibles that have been boiled for several hours in 1+1 HCl.

4.0 SAMPLE COLLECTION, PRESERVATION, AND HOLDING TIMES

4.1 Samples should be analyzed the day they are received in the laboratory. They should not be acidified as this will solublize ferric iron. Ferrous iron has no holding time.

5.0 REAGENTS AND STANDARDS

- 5.1 1,10-Phenanthroline. 0.1% purchase commercially.
- 5.2 200 mg/L Fe⁺² working standard:

SOP No.: GL-08102
Date Initiated: 12/98
Date Revised: 06/10
Revision No.: 6

Page No.: Page 5 of 14

5.2.1 Slowly add 2mL of concentrated Sulfuric Acid to approximately 20mL of DI water in a 100mL volumetric flask..

- 5.2.2 Dissolve 0.1404g of Ferrous Ammonium Sulfate, Hexahydrate Fe(NH₄)₂(SO₄)₂•6H₂O in the acidified water (5.2.1).
- 5.2.3 When the compound is dissolved, add 5 drops of 5% (5g/L) Potassium Permanganate to the dissolved Ferrous Ammonium Sulfate solution for preservation.
- 5.2.4 Dilute to 100 ml. The final concentration of this solution is 200 mg/L ferrous iron. This solution expires in 6 months.
- 5.3 10mL of 200mg/L to 100mL distilled water gives 20mg/L ferrous iron solution. This solution expires in 6 months.
- 5.4 Ammonium acetate buffer solution. Dissolve 250 grams NH₄C₂H₃O₂ in 150 ml distilled water. Add 700 ml concentrated acetic acid.
- 5.5 Ferrous Iron Reagent (HACH).
- 5.6 Prepare a calibration curve from the following table.

Table 5-1 Calibration Standards for Ferrous Iron

ml Working Standard (5.3)	Final Volume (ml)	Fe ⁺² Conc. (mg/l)	
0.0	100	0	
0.5	100	0.10	
1.0	100	0.20	
2.5	100	0.50	
5.0	100	1.00	
10	100	2.00	

5.7 Vendor Information. Table 5-2 lists the chemicals used in the test method and where they can be purchased.

Table 5-2 Ferrous Iron Standards and Chemicals

	Manufacturer	Purity	Catalog Number
1,10-phenathroline	VWR	Pure	VW3443-2
Hydrochloric Acid	EM Science	Concentrated	HX0603-3
Ammonium Acetate	Alfa Aesar	0.1 Percent	B07L02
Ferrous Ammonium Sulfate	EM Science	Pure	FX0205-1

AES, Inc.

3785 Presidential Pkwy Atlanta, GA 30340 SOP No.:

GL-08102

Date Initiated:
Date Revised:

12/98 06/10

Revision No.: Page No.:

Page 6 of 14

Sulfuric Acid EM Science Concentrated 1244-5

6.0 <u>APPARATUS AND MATERIALS</u>

- 6.1 Spectrophotometer capable of reading 510 nm.
- 6.2 125-ml Erlenmeyer flasks
- 6.3 100-ml volumetric flasks
- 6.4 1,5,10-ml pipettes
- 6.5 25-ml volumetric flasks

7.0 PROCEDURE

- 7.1 Sample backlog report.
 - 7.1.1 Each day the section supervisor reviews a backlog report. The log lists samples that are included in batches that have not been completed and closed in LIMS. IF A SAMPLE IS ON THIS LIST AND IT HAS BEEN ANALYZED, CHECK LIMS TO VERIFY THAT THE BATCH HAS BEEN CLOSED. Samples are listed on the work log in the order of due date.
 - 7.1.1.1 Any samples that are received in a "rush" status will have a chain of custody delivered to the section supervisor by the project manager.
 - 7.1.1.2 Prepare a written analysis log using the proper logbook that is kept in the supervisor's office. The following entries must be made in the log.
 - 7.1.1.2.1 Date and time that the batch is opened.
 - 7.1.1.2.2 All sample(s) included in the batch.
 - 7.1.1.2.3 Volume of samples analyzed.
 - 7.1.1.2.4 Analysis procedure employed.
 - 7.1.1.2.5 The initials of the analysts.
 - 7.1.1.2.6 Laboratory number of all reagents used including spiking standard.

SOP No.: GL-08102 Date Initiated: 12/98 06/10 Date Revised:

Revision No.:

Page 7 of 14 Page No.:

7.1.1.2.7 Volume of all reagents used including spiking standard.

7.1.1.2.8 Final volume of all concentrates.

7.1.1.2.9 Date and time the batch is closed.

7.1.1.2.10 Initials of all spike witnesses as appropriate.

7.2 Table 7-1 indicates the number and type of samples that comprise an analytical batch. Note: NELAC requirements specify that the maximum number of client samples in an analytical batch can not exceed 20. Further, a batch can not be left "open" for a period that exceeds 24 hours.

Table 7-1 Samples required in an Analytical Batch

Method Blank (MB)/CCB LCS/CCV Client Samples MS and MSD LCS 2/CCV 2

Note that an opening and closing CCV/LCS must be included in the analytical "run". The concentrations of the two CCVs/LCSs must not be the same. It is suggested that the analyst alternate between a mid-range concentration and a low-range concentration each batch. If the % Recovery of the standard is between 85% and 115% the curve is considered valid and analysis can continue. If the % recovery is outside the limits a new curve must be analyzed

- 7.3 Turn on spectrophotometer, set wavelength to 510 nm and allow it to warm up for at least 15 minutes.
- 7.4 Fill out Ferrous Iron analysis Log Book page with all required information including reagent information.
- 7.5 Check and record pH of samples. Adjust pH with 0.5N HCL if needed. For MB and LCS acidify DI water.
- 7.6 Pour two 25 ml aliquots of each pH adjusted sample into two separate centrifuge tubes. One tube is for background reading the other for color development. For the sample to be used for MS and DUP, prepare two extra tubes. Use the same background tube for the sample, MS and DUP.
- 7.7 Prepare MB by adding one 25 ml aliquot of pH adjusted DI water to the centrifuge tube.

SOP No.: GL-08102 Date Initiated: 12/98 Date Revised: 06/10 Revision No.: 6

Page No.: Page 8 of 14

7.8 Prepare LCS 1 (0.5mg/L) by adding 2.5 ml of 20mg/L Ferrous Iron standard to a 100mL volumetric flask and dilute to 100 ml with acidified DI water. Record Standard ID on Log Sheet.

- 7.9 Prepare LCS 2 (0.8mg/L) by adding 8 ml of 10mg/L Ferrous Iron standard to a 100mL volumetric flask and dilute to 100ml with acidified DI water. Record Standard ID on Log Sheet.
- 7.10 Prepare MS (0.5mg/L) by CAREFULLY adding 2.5 ml of 20mg/L Ferrous Iron stock solution to the 100mL volume flask containing 100ml of the sample to be spiked.
- 7.11 Add 5 ml NH₄C₂H₃O₂ buffer solution to each tube and mix. Record reagent ID on Log Sheet.
- 7.12 Add 1 pack of Ferrous Iron reagent (HACH) and mix.
- 7.13 After 5 minutes and before 10 minutes, begin reading the absorbance of each background tube and the color developed tube at **510mn** using the square, **2.5 cm cell**. Background readings for MB and LCS/LCSD are not necessary. Record each absorbance reading on the Log Sheet.
- 7.14 Calculate Corrected Absorbance (Color Developed Absorbance Background Absorbance) and record on Log Sheet.
- 7.15 Calculate Final Ferrous Iron value as follows:

Ferrous Iron, mg/L = [(Corrected Abs. x Slope) + Intercept] x Dilution Factor.

- 7.15 Record Final Ferrous Iron value on the Log Sheet.
- 7.16 If any Ferrous Iron values are greater than the highest standard on the Calibration Curve, sample must be diluted and reanalyzed, **INCLUDING DILUTED BACKGROUND READING**.

AES, Inc.

3785 Presidential Pkwy Atlanta, GA 30340

SOP No.:

GL-08102 Date Initiated: 12/98 Date Revised: 06/10

Revision No.: Page No.:

Page 9 of 14

Table 7-2 Checklist for Ferrous Iron Analysis by SM3500

 Turn on spectrophotometer, set wavelength to 510 nm and allow it to warm up for at least 15 minutes.
 Fill out Ferrous Iron analysis Log Book page with all required information including reagent information.
 Check and record pH of samples. Adjust pH with 0.5N HCL if needed. For MB and LCS acidify DI water.
 Pour two 25 ml aliquots of each pH adjusted sample into two separate centrifuge tubes. One tube is for background reading the other for color development. For the sample to be used for MS and DUP, prepare two extra tubes. Use the same background tube for the sample, MS and DUP.
 Prepare MB by adding one 25 ml aliquot of pH adjusted DI water to the centrifuge tube.
 Prepare LCS 1 (0.5mg/L) by adding 2.5 ml of 20mg/L Ferrous Iron standard to a 100ml volumetric flask and dilute to 100 ml with acidified DI water. Record Standard ID on Log Sheet.
 Prepare LCS 2 (0.8mg/L) by adding 8 ml of 10mg/L Ferrous Iron standard to a 100ml volumetric flask and dilute to 100ml with acidified DI water. Record Standard ID on Log Sheet.
 Prepare MS (0.5mg/L) by CAREFULLY adding 2.5 ml of 20mg/L Ferrous Iron stock solution to the volumetric flask containing 100ml of the sample to be spiked.
 Add 5 ml NH ₄ C ₂ H ₃ O ₂ buffer solution to each tube and mix. Record reagent ID on Log Sheet.
 Add 1 pack of Ferrous Iron reagent (HACH) and mix.
 After 5 minutes and before 10 minutes, begin reading the absorbance of each background tube and the color developed tube at 510mn using the square, 2.5 cm cell . Background readings for MB and LCS/LCSD are not necessary. Record each absorbance reading on the Log Sheet.
 Calculate Corrected Abs (Color Dev. Abs – Bkgd. Abs) and record on Log Sheet.
 Calculate Final Ferrous Iron value as follows:
Ferrous Iron, mg/L = [(Corrected Abs x Slope) + Intercept] x Dilution Factor.
 Record Final Ferrous Iron value on the Log Sheet.
 If any Ferrous Iron values are greater than the highest standard on the Calibration Curve, sample must be diluted and reanalyzed INCLUDING DILUTED BACKGROUND READING

AES, Inc. 3785 Presidential Pkwy Atlanta, GA 30340 SOP No.: GL-08102 Date Initiated: 12/98 Date Revised: 06/10 Revision No.: 6

Page No.: Page 10 of 14

8.0 QUALITY ASSURANCE REQUIREMENTS

8.1 Each person using this procedure is required to comply with the formal quality control program specified by AES. The minimum requirements of this program consist of an initial demonstration of capability, and the periodic analysis of laboratory reagent blanks, fortified blanks, and other laboratory solutions as a continuing check on performance. The laboratory, through the analyst, is required to maintain performance records that define the quality of the data that are generated. Detailed quality assurance procedures can be found in SOP# QA-01000, "Quality Assurance Manual," Section 5. Subsequent sections define portions of the quality control program.

- 8.1.1 Demonstration of Capability. Each analyst must demonstrate proficiency for each method performed by performing Initial Demonstration of Capability (IDOC) prior to unsupervised analysis of analytical samples and Continuing Demonstration of Capability (CDOC) at least annually. Detailed descriptions of IDOC and CDOC requirements and acceptance limits can be found in Section 5 of SOP#QA-01000, "Quality Assurance Manual".
- 8.1.2 Calibration of the HACH spectrophotometer. This is accomplished through a 5-point calibration curve. The correlation coefficient must be ≥0.99 for the calibration curve to be acceptable.
- 8.1.3 Method Detection Limit Study. The method detection limit is calculated by analyzing at least seven replicates prepared in blank water at concentrations 1 to 5 times higher than the estimated detection limit. Quantitation limits are laboratory derived from the MDL study data set. MDL's are to be performed annually or whenever instrument conditions have changes that will affect the established detection limits.
- 8.1.4 Method blank. Reagent blank analyses must be performed at the following frequency: Every twenty (20) samples of similar concentration and/or sample matrix or whenever samples are extracted and analyzed by the same procedure at same time, whichever is more frequent. The concentration of the method blank of any analyte of interest should not exceed the laboratory established practical quantitation limit (PQL).
- 8.1.5 Laboratory control sample (LCS). The Laboratory Control Sample (LCS) is used to monitor, assess, and document laboratory method performance and is performed on every batch or twenty samples, whichever occurs more frequently. The recovery of the analytes must meet established laboratory guidelines as defined in Section 5 of SOP# QA-01000, "Quality Assurance Manual".
- 8.1.6 Sample spike and duplicate spike. Matrix spikes and matrix spike duplicates are used to determine the effect of the sample matrix on the recovery of analytes, and are analyzed for each analytical batch up to 20 samples. The recovery of the

AES, Inc. 3785 Presidential Pkwy Atlanta, GA 30340

SOP No.: GL-08102 Date Initiated: 12/98 Date Revised: 06/10 Revision No.: 6

Page No.:

Page 11 of 14

analytes must meet established laboratory guidelines as defined in Section 5 of SOP# QA-01000, "Quality Assurance Manual".

8.2 Out of Control Conditions and Corrective Actions. Contingencies for handling out-of-control or unacceptable data are included in Section 5 of SOP# QA-01000, "Quality Assurance Manual". The tables in this section include corrective actions for failing QC and/or acceptance criteria.

8.3 Documentation of data. Document and record all analytical sequence, standard preparation, instrument maintenance, and any procedural deviations in appropriate logbooks.

9.0 HEALTH & SAFETY REQUIREMENTS

- 9.1 Health and Safety: Safety glasses and latex type gloves must be worn at all times when dealing with any chemicals, samples, or reagents. A lab coat is also highly recommended. Close-toed shoes and clothing that covers the legs (no shorts or dresses) must be worn any time an analyst is working in the laboratory.
- 9.2 The toxicity or carcinogenicity of each reagent used in this method has not been fully established. Each chemical should be regarded as a health hazard and exposure should be as kept low as reasonably possible. All health and safety concerns for any chemicals are listed in the Material Safety Data Sheets (MSDS) provided by the supplier or manufacturer of these chemicals. A copy of any MSDS is available for review at any time.
- 9.3 Proper disposal of all wastes is essential. Containers are provided for all waste according to the type. Section 17 of the Quality Assurance Manual discusses the disposal of various laboratory wastes in detail. Also, see Section 14.0 Pollution Management.

10.0 DATA REPORTING

- 10.1 Report results to three significant digits.
- 10.2 Current MDLs for all parameters may be found in Section 5 of SOP# QA-01000, "Quality Assurance Manual".
- 10.3 Out-Of-Control Data Contingencies for handling out-of-control or unacceptable data are included in SOP #QA-01000, "Quality Assurance Manual" in Section 5 including corrective actions for failing QC and/or acceptance criteria.
- 10.4 The estimated MDL for this test procedure is 0.01 mg/L.

AES, Inc. 3785 Presidential Pkwv Atlanta, GA 30340

SOP No.: GL-08102 Date Initiated: 12/98 Date Revised: 06/10 Revision No.:

Page 12 of 14 Page No.:

11.0 **FILE MAINTENANCE**

11.1 Data from this test is stored in logbooks. When the logbooks are complete, they are scanned and stored on the portal server for a period of 5 years.

- 11.2 New logbooks are either created or retired through the OA Manager.
- 11.3 Data is entered into the LIMS by the analyst performing the work

12.0 **INSTRUMENT MAINTENANCE**

12.1 Instrument logbooks. Instrument logbooks must be completed each time maintenance is performed on the instrument.

Each instrument logbook must have a cover page that includes the following information.

Equipment name. Example: GC-5

Manufacturers name. Example: Hewlett Packard 6890 GC

Serial Number. Example: 13226589A Date Received. Example: 11/01/00

Date Placed into Service. Example: 11/05/00

- 12.2 Non-routine maintenance: Typical non-routine maintenance consists of the replacement of circuit boards and other items not associated with typical maintenance. Non-routine maintenance is performed when a system component malfunctions.
- 12.3 When non-routine maintenance is required, contact the Section Supervisor. The Section Supervisor will complete a maintenance request form and submit the same to the VP of Technical Services.

13.0 **METHOD PERFORMANCE**

- 13.1 The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the value is above zero. The reporting limit RL is defined as the concentration of a substance that is above the level of uncertainty. The concentrations listed in the table in Section VIII were obtained using reagent water. Similar results can be achieved using representative wastewaters. The MDL actually achieved is a given analysis will vary depending on instrument sensitivity and matrix effects.
- 13.2 A synthetic sample containing 300 µg/l ferric iron per liter, 500µg Al/L, 50 µg Cd/L, 110 μg Cr/L, 470 μg Cu/L, 70 μg Pb/L, 120 μg Mn/L, 150 μg Ag/l, 650 μg Zn/L in distilled water was analyzed in 44 laboratories by the phenanthroline method with a relative standard deviation of 25.5% and a relative error of 13.3%.

AES, Inc. 3785 Presidential Pkwy Atlanta, GA 30340 SOP No.: GL-08102 Date Initiated: 12/98 Date Revised: 06/10

Revision No.:

Page No.: Page 13 of 14

14.0 POLLUTION MANAGEMENT

14.1 All laboratory analysis generates wastes. Some wastes can be hazardous such as acidic wastes, alkaline wastes, metal bearing wastes, and organic wastes.

- 14.2 Some wastes are generated because of the test procedure such as organic extractions and acid digestions.
- 14.3 The following procedures should be adhered to when disposing of hazardous wastes.
 - 14.3.1 Wastes with pH levels above 12 or less than 4 should be neutralized prior to disposal.
 - 14.3.2 Wastes with other pH levels may be directly discharged into the sinks.
 - 14.3.3 SOP HS-03005 Waste Disposal and SOP SR-09002 Sample Receiving further discuss methods for disposal of samples and waste materials. Additional information can also be found in the QA Manual.
- 14.4 When disposing of laboratory wastes, the waste disposal log must be completed. To complete this log, supply the following information.

Sample Number Method of disposal and treatment prior to disposal Date of sample disposal Name of person performing the disposal duty

15.0 <u>DEFINITIONS</u>

- 15.1 Primary Grade –A dry chemical that has been dried at 250°C for 4 hours cooled and stored in a desiccator.
- 15.2 LCS Laboratory Control Check Standard. A known amount of sought for analyte is added to distilled water or clean soil and the concentration is measured after all procedures are applied to the sample. The resulting determined concentration must fall within test specified limits.
- 15.3 DI water- Deionized water
- 15.4 RSD Relative Standard Deviation
- 15.5 RF Response factor. Determined as the concentration of a sample divided by the chromatographic area of the peak produced by the sample.

AES, Inc. 3785 Presidential Pkwy Atlanta, GA 30340 SOP No.: GL-08102 Date Initiated: 12/98 Date Revised: 06/10

Revision No.: Page No.:

lo.: Page 14 of 14

15.6 MS- Matrix Spike. Procedure where a known amount of sought for analyte is added to a sample and the resulting concentration measured. The recovery is defined as the measured result of the spiked sample less the concentration of the same analyte in the unspiked sample multiplied by 100 percent.

- 15.7 MSD- Matrix Spike Duplicate.
- 15.8 CCV Continuing calibration verification standard. Must be varied thoughout the daily runs, that is the concentration must be low, middle, and sometimes at the upper end of the calibration curve.
- 15.9 ICV Initial calibration verification standard. This standard must be prepared from a second source than that used for the calibration curve. That is, it must be from a different manufacturer or lot that the calibration standard.
- 15.10 LCSD Laboratory Check Standard Duplicate

16.0 REFERENCES

- 16.1 Standard Methods for the Examination of Water and Wastewater, Method 3500-Fe B, "Phenanthroline Method", 1998, 20th Edition.
- 16.2 Code of Federal Regulations, 40CFR part 136, Appendix B.

17.0 VALIDATION DATA

- 17.1 Method validation data in the form of MDL study data when applicable is available at AES Portal Server: http://home/aes/Quality Assurance/MDL.
- 17.2 Method validation data in the form of IDOC/CDOC study data when applicable is available at AES Portal Server: http://home/aes/Technical Management/Demonstrations of Capability and SOP Sign Forms.



PUBLIC NOTICE

Notice #07584-07777-12352-01 March 31, 2014



This notice is to inform the public that the S. C. Department of Health and Environmental Control (Agency) is taking public comments on a Corrective Action Plan (CAP). This CAP addresses the cleanup of soil and groundwater contamination at the facility listed below. The contamination was caused by Petroleum Products that were released from the underground storage tank system at these facilities.

FACILITY: UST Permit # 07584, University Mart, 2367 Taylor St., Columbia, SC

Release #1 reported January 30, 1991 Release #2 reported April 17, 1998

UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC

Release reported December 31, 1991 UST Permit # 12352, Clouds Chevron Release reported December 30, 1991

APPLICANT: Crawford Environmental Services, 15 Church Avenue SW, Roanoke, VA 24011 on behalf of ACME Petroleum and Fuel Company, 543 Cox Road, Ste C, Gastonia, NC 28054 (University Mart UST#07584); Wallace M. Scott, 76 Whiteford Way, Lexington, SC 29072 (Clouds Chevron UST# 07777), and Jack and Alexandria Lee, 3733 Greenbriar Drive, Columbia, SC 29206 (Clouds Chevron UST#12352).

SUMMARY OF CAP: Petroleum and petroleum byproducts naturally break down over time through chemical, physical, and biological processes. These processes are called natural attenuation. Crawford Environmental Services has submitted a CAP proposing the use of the following technologies in addition to natural attenuation to clean up the contamination.

- Aggressive Fluid Vapor Recovery: A high-pressure vacuum is attached to recovery wells; it removes petroleum vapors, contaminated groundwater, and the petroleum product.
- Air Sparging & Soil Vapor Extraction: Air is pumped underground to evaporate petroleum products. The chemicals are removed using a vacuum system.
- Chemical Oxidation: Oxygen-rich chemicals are injected underground to change the petroleum product(s) into harmless compounds (water and carbon dioxide).
- Bioremediation: Microorganisms that live underground eat the petroleum product(s) and convert the product to water and carbon dioxide. Air and nutrients will be injected underground to assist the microbes in removing the petroleum product(s).

PUBLIC COMMENT PERIOD DEADLINE: The deadline for submitting written comments is 5 PM April 30, 2014. Any interested person(s) may submit written comments concerning the cleanup to the Project Manager listed below. Please bring this notice to the attention of persons whom you know will be interested in this matter. Where there is a significant degree of public interest, the Agency will hold a public hearing.

John C. Bryant SCDHEC - UST Management Division 2600 Bull Street Columbia SC 29201 803-898-0606

CONTACT INFORMATION: For additional information, please call the Project Manager listed above. To view a copy of the CAP, contact the Freedom of Information Office at 803-898-3882.

Section 280.67 of the S.C. Underground Storage Tank Control Regulations (R.61-92) requires that any CAP prepared to meet the requirements of 280.66 be placed on notice for public comment.



Promoting and protecting the health of the public and the environment

ALLEN UNIVERSITY 1530 HARDEN STREET COLUMBIA, SC 29204

MAR 2 7 2014

Re:

Public Notice of Proposed Corrective Action

University Mart, 2367 Taylor Street, Columbia, SC

UST Permit # 07584; Release 1 and 2

Clouds Chevron, 1600 Two Notch Road, Columbia, SC

UST Permit # 07777 & 12352

Corrective Action Plan Received March 24, 2014

Richland County

To Whom It May Concern:

As you are aware, petroleum products have been identified in the soil and groundwater at the former University Mart and Clouds Chevron facilities. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services, Inc. (CES) has been retained to initiate corrective action of the impacted soil and groundwater. CES has submitted a Corrective Action Plan (CAP) for surfactant injection and vacuum extraction, in-situ chemical oxidation, and nutrient and biological injections in addition to natural attenuation. A copy of the CAP has been sent to you by CES. Please contact me if you do not receive the CAP.

Section 280.67 of the South Carolina Underground Storage Tank Regulations requires the South Carolina Department of Health and Environmental Control to provide notice to those members of the public that may be affected by a planned corrective action. A copy of the public notice is enclosed for your information. The installation of recovery/ injection wells on your property may be necessary as part of the corrective action. Additionally, periodic sampling of the monitoring wells on your property will be necessary. CES is required to coordinate any activity on your property with you. Your continued cooperation is appreciated.

If you have any questions or comments regarding the proposed corrective action, please contact me by phone at (803) 898-0606, by fax at (803) 898-0673, or by email at bryantjc@dhec.sc.gov. All comments should be submitted on or before April 30, 2014.

Sincerely,

111

John C. Bryant, Hydrogeologist Corrective Action Section UST Management Division Bureau of Land and Waste Management

enc:

Public Notice

Citizens Guide

cc:



Promoting and protecting the health of the public and the environment

COLUMBIA GROCERY INC 1510 ONTARIO STREET COLUMBIA, SC 29204

MAR 2 7 2014

Re:

Public Notice of Proposed Corrective Action

University Mart, 2367 Taylor Street, Columbia, SC

UST Permit # 07584; Release 1 and 2

Clouds Chevron, 1600 Two Notch Road, Columbia, SC

UST Permit # 07777 & 12352

Corrective Action Plan Received March 24, 2014

Richland County

To Whom It May Concern:

As you are aware, petroleum products have been identified in the soil and groundwater at the former University Mart and Clouds Chevron facilities. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services, Inc. (CES) has been retained to initiate corrective action of the impacted soil and groundwater. CES has submitted a Corrective Action Plan (CAP) for surfactant injection and vacuum extraction, in-situ chemical oxidation, and nutrient and biological injections in addition to natural attenuation. A copy of the CAP has been sent to you by CES. Please contact me if you do not receive the CAP.

Section 280.67 of the South Carolina Underground Storage Tank Regulations requires the South Carolina Department of Health and Environmental Control to provide notice to those members of the public that may be affected by a planned corrective action. A copy of the public notice is enclosed for your information. The installation of recovery/ injection wells on your property may be necessary as part of the corrective action. Additionally, periodic sampling of the monitoring wells on your property will be necessary. CES is required to coordinate any activity on your property with you. Your continued cooperation is appreciated.

If you have any questions or comments regarding the proposed corrective action, please contact me by phone at (803) 898-0606, by fax at (803) 898-0673, or by email at bryantjc@dhec.sc.gov. All comments should be submitted on or before April 30, 2014.

Sincerely,

John C. Bryant, Hydrogeologist Corrective Action Section

UST Management Division

Bureau of Land and Waste Management

enc:

Public Notice

Citizens Guide

cc:



Promoting and protecting the health of the public and the environment

MR ANDREW DIGGINGS PROVIDENCE HOSPITAL 2345 FOREST DRIVE COLUMBIA, SC 29204

MAR 2 7 2014

Re:

Public Notice of Proposed Corrective Action

University Mart, 2367 Taylor Street, Columbia, SC

UST Permit # 07584; Release 1 and 2

Clouds Chevron, 1600 Two Notch Road, Columbia, SC

UST Permit # 07777 & 12352

Corrective Action Plan Received March 24, 2014

Richland County

Dear Mr. Diggins:

As you are aware, petroleum products have been identified in the soil and groundwater at the former University Mart and Clouds Chevron facilities. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services, Inc. (CES) has been retained to initiate corrective action of the impacted soil and groundwater. CES has submitted a Corrective Action Plan (CAP) for surfactant injection and vacuum extraction, in-situ chemical oxidation, and nutrient and biological injections in addition to natural attenuation. A copy of the CAP has been sent to you by CES. Please contact me if you do not receive the CAP.

Section 280.67 of the South Carolina Underground Storage Tank Regulations requires the South Carolina Department of Health and Environmental Control to provide notice to those members of the public that may be affected by a planned corrective action. A copy of the public notice is enclosed for your information. The installation of recovery/ injection wells on your property may be necessary as part of the corrective action. Additionally, periodic sampling of the monitoring wells on your property will be necessary. CES is required to coordinate any activity on your property with you. Your continued cooperation is appreciated.

If you have any questions or comments regarding the proposed corrective action, please contact me by phone at (803) 898-0606, by fax at (803) 898-0673, or by email at bryantjc@dhec.sc.gov. All comments should be submitted on or before April 30, 2014.

Sincerely,

John C. Bryant, Hydrogeologist

1-1 -

Corrective Action Section
UST Management Division

Bureau of Land and Waste Management

enc:

Public Notice

Citizens Guide

cc:



Promoting and protecting the health of the public and the environment

MILLWOOD AVENUE LLC 1330 DEVONSHIRE DRIVE COLUMBIA, SC 29204

MAR 2 7 2014

Re: Public Notice of Proposed Corrective Action

University Mart, 2367 Taylor Street, Columbia, SC

UST Permit # 07584; Release 1 and 2

Clouds Chevron, 1600 Two Notch Road, Columbia, SC

UST Permit # 07777 & 12352

Corrective Action Plan Received March 24, 2014

Richland County

To Whom It May Concern:

As you are aware, petroleum products have been identified in the soil and groundwater at the former University Mart and Clouds Chevron facilities. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services, Inc. (CES) has been retained to initiate corrective action of the impacted soil and groundwater. CES has submitted a Corrective Action Plan (CAP) for surfactant injection and vacuum extraction, in-situ chemical oxidation, and nutrient and biological injections in addition to natural attenuation. A copy of the CAP has been sent to you by CES. Please contact me if you do not receive the CAP.

Section 280.67 of the South Carolina Underground Storage Tank Regulations requires the South Carolina Department of Health and Environmental Control to provide notice to those members of the public that may be affected by a planned corrective action. A copy of the public notice is enclosed for your information. The installation of recovery/injection wells on your property may be necessary as part of the corrective action. Additionally, periodic sampling of the monitoring wells on your property will be necessary. CES is required to coordinate any activity on your property with you. Your continued cooperation is appreciated.

If you have any questions or comments regarding the proposed corrective action, please contact me by phone at (803) 898-0606, by fax at (803) 898-0673, or by email at bryantjc@dhec.sc.gov. All comments should be submitted on or before April 30, 2014.

Sincerely,

John C. Bryant, Hydrogeologist Corrective Action Section

UST Management Division

Bureau of Land and Waste Management

enc: Public Notice

Citizens Guide

cc: Technical File (w/ PN)



Promoting and protecting the health of the public and the environment

MR LAU FUNG 2300 TAYLOR STREET, STE D COLUMBIA, SC 29204

MAR 2 7 2014

Re:

Public Notice of Proposed Corrective Action

University Mart, 2367 Taylor Street, Columbia, SC

UST Permit # 07584; Release 1 and 2

Clouds Chevron, 1600 Two Notch Road, Columbia, SC

UST Permit # 07777 & 12352

Corrective Action Plan Received March 24, 2014

Richland County

Dear Mr. Fung:

As you are aware, petroleum products have been identified in the soil and groundwater at the former University Mart and Clouds Chevron facilities. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services, Inc. (CES) has been retained to initiate corrective action of the impacted soil and groundwater. CES has submitted a Corrective Action Plan (CAP) for surfactant injection and vacuum extraction, in-situ chemical oxidation, and nutrient and biological injections in addition to natural attenuation. A copy of the CAP has been sent to you by CES. Please contact me if you do not receive the CAP.

Section 280.67 of the South Carolina Underground Storage Tank Regulations requires the South Carolina Department of Health and Environmental Control to provide notice to those members of the public that may be affected by a planned corrective action. A copy of the public notice is enclosed for your information. The installation of recovery/ injection wells on your property may be necessary as part of the corrective action. Additionally, periodic sampling of the monitoring wells on your property will be necessary. CES is required to coordinate any activity on your property with you. Your continued cooperation is appreciated.

If you have any questions or comments regarding the proposed corrective action, please contact me by phone at (803) 898-0606, by fax at (803) 898-0673, or by email at bryantjc@dhec.sc.gov. All comments should be submitted on or before April 30, 2014.

Sincerely,

John C. Bryant, Hydrogeologist Corrective Action Section UST Management Division Bureau of Land and Waste Management

enc:

Public Notice

Citizens Guide

cc:



Promoting and protecting the health of the public and the environment

MR CHANG MOON SUENG 2358 TAYLOR STREET COLUMBIA, SC 29204

MAR 2 7 2014

Re:

Public Notice of Proposed Corrective Action

University Mart, 2367 Taylor Street, Columbia, SC

UST Permit # 07584; Release 1 and 2

Clouds Chevron, 1600 Two Notch Road, Columbia, SC

UST Permit # 07777 & 12352

Corrective Action Plan Received March 24, 2014

Richland County

Dear Mr. Sueng:

As you are aware, petroleum products have been identified in the soil and groundwater at the former University Mart and Clouds Chevron facilities. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services, Inc. (CES) has been retained to initiate corrective action of the impacted soil and groundwater. CES has submitted a Corrective Action Plan (CAP) for surfactant injection and vacuum extraction, in-situ chemical oxidation, and nutrient and biological injections in addition to natural attenuation. A copy of the CAP has been sent to you by CES. Please contact me if you do not receive the CAP.

Section 280.67 of the South Carolina Underground Storage Tank Regulations requires the South Carolina Department of Health and Environmental Control to provide notice to those members of the public that may be affected by a planned corrective action. A copy of the public notice is enclosed for your information. The installation of recovery/ injection wells on your property may be necessary as part of the corrective action. Additionally, periodic sampling of the monitoring wells on your property will be necessary. CES is required to coordinate any activity on your property with you. Your continued cooperation is appreciated.

If you have any questions or comments regarding the proposed corrective action, please contact me by phone at (803) 898-0606, by fax at (803) 898-0673, or by email at bryantjc@dhec.sc.gov. All comments should be submitted on or before April 30, 2014.

Sincerely,

John C. Bryant, Hydrogeologist Corrective Action Section

UST Management Division

Bureau of Land and Waste Management

enc:

Public Notice

Citizens Guide

cc:



Promoting and protecting the health of the public and the environment

TAYLOR STREET LLC 200 GAULEY DRIVE COLUMBIA, SC 29212

MAR 2 7 2014

Re:

Public Notice of Proposed Corrective Action

University Mart, 2367 Taylor Street, Columbia, SC

UST Permit # 07584; Release 1 and 2

Clouds Chevron, 1600 Two Notch Road, Columbia, SC

UST Permit # 07777 & 12352

Corrective Action Plan Received March 24, 2014

Richland County

To Whom It May Concern:

As you are aware, petroleum products have been identified in the soil and groundwater at the former University Mart and Clouds Chevron facilities. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services, Inc. (CES) has been retained to initiate corrective action of the impacted soil and groundwater. CES has submitted a Corrective Action Plan (CAP) for surfactant injection and vacuum extraction, in-situ chemical oxidation, and nutrient and biological injections in addition to natural attenuation. A copy of the CAP has been sent to you by CES. Please contact me if you do not receive the CAP.

Section 280.67 of the South Carolina Underground Storage Tank Regulations requires the South Carolina Department of Health and Environmental Control to provide notice to those members of the public that may be affected by a planned corrective action. A copy of the public notice is enclosed for your information. The installation of recovery/ injection wells on your property may be necessary as part of the corrective action. Additionally, periodic sampling of the monitoring wells on your property will be necessary. CES is required to coordinate any activity on your property with you. Your continued cooperation is appreciated.

If you have any questions or comments regarding the proposed corrective action, please contact me by phone at (803) 898-0606, by fax at (803) 898-0673, or by email at bryantjc@dhec.sc.gov. All comments should be submitted on or before April 30, 2014.

Sincerely.

John C. Bryant, Hydrogeologist Corrective Action Section

UST Management Division

Bureau of Land and Waste Management

enc:

Public Notice

Citizens Guide

cc:



Promoting and protecting the health of the public and the environment

SYLVAN FOOD SYSTEMS, INC 1245 BOSTON AVENUE WEST COLUMBIA, SC 29170

MAR 2 7 2014

Re:

Public Notice of Proposed Corrective Action

University Mart, 2367 Taylor Street, Columbia, SC

UST Permit # 07584; Release 1 and 2

Clouds Chevron, 1600 Two Notch Road, Columbia, SC

UST Permit # 07777 & 12352

Corrective Action Plan Received March 24, 2014

Richland County

To Whom It May Concern:

As you are aware, petroleum products have been identified in the soil and groundwater at the former University Mart and Clouds Chevron facilities. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services, Inc. (CES) has been retained to initiate corrective action of the impacted soil and groundwater. CES has submitted a Corrective Action Plan (CAP) for surfactant injection and vacuum extraction, in-situ chemical oxidation, and nutrient and biological injections in addition to natural attenuation. A copy of the CAP has been sent to you by CES. Please contact me if you do not receive the CAP.

Section 280.67 of the South Carolina Underground Storage Tank Regulations requires the South Carolina Department of Health and Environmental Control to provide notice to those members of the public that may be affected by a planned corrective action. A copy of the public notice is enclosed for your information. The installation of recovery/ injection wells on your property may be necessary as part of the corrective action. Additionally, periodic sampling of the monitoring wells on your property will be necessary. CES is required to coordinate any activity on your property with you. Your continued cooperation is appreciated.

If you have any questions or comments regarding the proposed corrective action, please contact me by phone at (803) 898-0606, by fax at (803) 898-0673, or by email at bryantjc@dhec.sc.gov. All comments should be submitted on or before April 30, 2014.

Sincerely,

John C. Bryant, Hydrogeologist

Corrective Action Section UST Management Division

Bureau of Land and Waste Management

enc:

Public Notice

Citizens Guide

cc:



Promoting and protecting the health of the public and the environment

MS BETTE G BATEMAN C/O JESSE T REESE PO BOX 1026 COLUMBIA, SC 29201

MAR 2 7 2014

Re:

Public Notice of Proposed Corrective Action

University Mart, 2367 Taylor Street, Columbia, SC

UST Permit # 07584; Release 1 and 2

Clouds Chevron, 1600 Two Notch Road, Columbia, SC

UST Permit # 07777 & 12352

Corrective Action Plan Received March 24, 2014

Richland County

Dear Ms. Bateman:

As you are aware, petroleum products have been identified in the soil and groundwater at the former University Mart and Clouds Chevron facilities. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services, Inc. (CES) has been retained to initiate corrective action of the impacted soil and groundwater. CES has submitted a Corrective Action Plan (CAP) for surfactant injection and vacuum extraction, in-situ chemical oxidation, and nutrient and biological injections in addition to natural attenuation. A copy of the CAP has been sent to you by CES. Please contact me if you do not receive the CAP.

Section 280.67 of the South Carolina Underground Storage Tank Regulations requires the South Carolina Department of Health and Environmental Control to provide notice to those members of the public that may be affected by a planned corrective action. A copy of the public notice is enclosed for your information. The installation of recovery/ injection wells on your property may be necessary as part of the corrective action. Additionally, periodic sampling of the monitoring wells on your property will be necessary. CES is required to coordinate any activity on your property with you. Your continued cooperation is appreciated.

If you have any questions or comments regarding the proposed corrective action, please contact me by phone at (803) 898-0606, by fax at (803) 898-0673, or by email at bryantjc@dhec.sc.gov. All comments should be submitted on or before April 30, 2014.

Sincerely,

John C. Bryant, Hydrogeologist Corrective Action Section

UST Management Division

1-1-

Bureau of Land and Waste Management

enc:

Public Notice

Citizens Guide

cc:



Promoting and protecting the health of the public and the environment

MR MAHESH PATEL FAST POINT FOOD STORES 2811 REIDVILLE ROAD, STE 11 SPARTANBURG, SC 29301

MAR 2 7 2014

Re:

Public Notice of Proposed Corrective Action

University Mart, 2367 Taylor Street, Columbia, SC

UST Permit # 07584; Release 1 and 2

Clouds Chevron, 1600 Two Notch Road, Columbia, SC

UST Permit # 07777 & 12352

Corrective Action Plan Received March 24, 2014

Richland County

Dear Mr. Patel:

As you are aware, petroleum products have been identified in the soil and groundwater at the former University Mart and Clouds Chevron facilities. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services, Inc. (CES) has been retained to initiate corrective action of the impacted soil and groundwater. CES has submitted a Corrective Action Plan (CAP) for surfactant injection and vacuum extraction, in-situ chemical oxidation, and nutrient and biological injections in addition to natural attenuation. A copy of the CAP has been sent to you by CES. Please contact me if you do not receive the CAP.

Section 280.67 of the South Carolina Underground Storage Tank Regulations requires the South Carolina Department of Health and Environmental Control to provide notice to those members of the public that may be affected by a planned corrective action. A copy of the public notice is enclosed for your information. The installation of recovery/ injection wells on your property may be necessary as part of the corrective action. Additionally, periodic sampling of the monitoring wells on your property will be necessary. CES is required to coordinate any activity on your property with you. Your continued cooperation is appreciated.

If you have any questions or comments regarding the proposed corrective action, please contact me by phone at (803) 898-0606, by fax at (803) 898-0673, or by email at bryantjc@dhec.sc.gov. All comments should be submitted on or before April 30, 2014.

Sincerely,

John C. Bryant, Hydrogeologist Corrective Action Section

UST Management Division

Bureau of Land and Waste Management

enc:

Public Notice

Citizens Guide

cc:



Promoting and protecting the health of the public and the environment

ATTN: DR DAVID H SWINTON BENEDICT COLLEGE 1600 HARDEN STREET COLUMBIA, SC 29204

MAR 2 7 2014

Re:

Public Notice of Proposed Corrective Action

University Mart, 2367 Taylor Street, Columbia, SC

UST Permit # 07584; Release 1 and 2

Clouds Chevron, 1600 Two Notch Road, Columbia, SC

UST Permit # 07777 & 12352

Corrective Action Plan Received March 24, 2014

Richland County

Dear Dr. Swinton:

As you are aware, petroleum products have been identified in the soil and groundwater at the former University Mart and Clouds Chevron facilities. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services, Inc. (CES) has been retained to initiate corrective action of the impacted soil and groundwater. CES has submitted a Corrective Action Plan (CAP) for surfactant injection and vacuum extraction, in-situ chemical oxidation, and nutrient and biological injections in addition to natural attenuation. A copy of the CAP has been sent to you by CES. Please contact me if you do not receive the CAP.

Section 280.67 of the South Carolina Underground Storage Tank Regulations requires the South Carolina Department of Health and Environmental Control to provide notice to those members of the public that may be affected by a planned corrective action. A copy of the public notice is enclosed for your information. The installation of recovery/ injection wells on your property may be necessary as part of the corrective action. Additionally, periodic sampling of the monitoring wells on your property will be necessary. CES is required to coordinate any activity on your property with you. Your continued cooperation is appreciated.

If you have any questions or comments regarding the proposed corrective action, please contact me by phone at (803) 898-0606, by fax at (803) 898-0673, or by email at bryantjc@dhec.sc.gov. All comments should be submitted on or before April 30, 2014.

Sincerely,

John C. Bryant, Hydrogeologist

Corrective Action Section UST Management Division

1-1-

Bureau of Land and Waste Management

enc:

Public Notice

Citizens Guide

cc:



Promoting and protecting the health of the public and the environment

ATTN: MR GILBERT WALKER COLUMBIA HOUSING AUTHORITY PO BOX 4307 COLUMBIA, SC 29204

MAR 2 7 2014

Re:

Public Notice of Proposed Corrective Action

University Mart, 2367 Taylor Street, Columbia, SC

UST Permit # 07584; Release 1 and 2

Clouds Chevron, 1600 Two Notch Road, Columbia, SC

UST Permit # 07777 & 12352

Corrective Action Plan Received March 24, 2014

Richland County

Dear Mr. Walker:

As you are aware, petroleum products have been identified in the soil and groundwater at the former University Mart and Clouds Chevron facilities. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services, Inc. (CES) has been retained to initiate corrective action of the impacted soil and groundwater. CES has submitted a Corrective Action Plan (CAP) for surfactant injection and vacuum extraction, in-situ chemical oxidation, and nutrient and biological injections in addition to natural attenuation. A copy of the CAP has been sent to you by CES. Please contact me if you do not receive the CAP.

Section 280.67 of the South Carolina Underground Storage Tank Regulations requires the South Carolina Department of Health and Environmental Control to provide notice to those members of the public that may be affected by a planned corrective action. A copy of the public notice is enclosed for your information. The installation of recovery/ injection wells on your property may be necessary as part of the corrective action. Additionally, periodic sampling of the monitoring wells on your property will be necessary. CES is required to coordinate any activity on your property with you. Your continued cooperation is appreciated.

If you have any questions or comments regarding the proposed corrective action, please contact me by phone at (803) 898-0606, by fax at (803) 898-0673, or by email at bryantjc@dhec.sc.gov. All comments should be submitted on or before April 30, 2014.

Sincerely,

John C. Bryant, Hydrogeologist

Corrective Action Section UST Management Division

Bureau of Land and Waste Management

enc:

Public Notice

Citizens Guide

cc:



MS LINDA WARREN 1527 LYON STREET COLUMBIA, SC 29204

MAR 2 7 2014

Re:

Public Notice of Proposed Corrective Action

University Mart, 2367 Taylor Street, Columbia, SC

UST Permit # 07584; Release 1 and 2

Clouds Chevron, 1600 Two Notch Road, Columbia, SC

UST Permit # 07777 & 12352

Corrective Action Plan Received March 24, 2014

Richland County

Dear Ms. Warren:

As you are aware, petroleum products have been identified in the soil and groundwater at the former University Mart and Clouds Chevron facilities. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services, Inc. (CES) has been retained to initiate corrective action of the impacted soil and groundwater. CES has submitted a Corrective Action Plan (CAP) for surfactant injection and vacuum extraction, in-situ chemical oxidation, and nutrient and biological injections in addition to natural attenuation. A copy of the CAP has been sent to you by CES. Please contact me if you do not receive the CAP.

Section 280.67 of the South Carolina Underground Storage Tank Regulations requires the South Carolina Department of Health and Environmental Control to provide notice to those members of the public that may be affected by a planned corrective action. A copy of the public notice is enclosed for your information. The installation of recovery/ injection wells on your property may be necessary as part of the corrective action. Additionally, periodic sampling of the monitoring wells on your property will be necessary. CES is required to coordinate any activity on your property with you. Your continued cooperation is appreciated.

If you have any questions or comments regarding the proposed corrective action, please contact me by phone at (803) 898-0606, by fax at (803) 898-0673, or by email at bryantjc@dhec.sc.gov. All comments should be submitted on or before April 30, 2014.

Sincerely,

John C. Bryant, Hydrogeologist Corrective Action Section

UST Management Division

Bureau of Land and Waste Management

enc:

Public Notice

Citizens Guide

cc:



MR JOE T SUDDETH 302 BIDDLE ROAD COLUMBIA, SC 29212

MAR 2 7 2014

Re:

Public Notice of Proposed Corrective Action

University Mart, 2367 Taylor Street, Columbia, SC

UST Permit # 07584; Release 1 and 2

Clouds Chevron, 1600 Two Notch Road, Columbia, SC

UST Permit # 07777 & 12352

Corrective Action Plan Received March 24, 2014

Richland County

Dear Mr. Suddeth:

As you are aware, petroleum products have been identified in the soil and groundwater at the former University Mart and Clouds Chevron facilities. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services, Inc. (CES) has been retained to initiate corrective action of the impacted soil and groundwater. CES has submitted a Corrective Action Plan (CAP) for surfactant injection and vacuum extraction, in-situ chemical oxidation, and nutrient and biological injections in addition to natural attenuation. A copy of the CAP has been sent to you by CES. Please contact me if you do not receive the CAP.

Section 280.67 of the South Carolina Underground Storage Tank Regulations requires the South Carolina Department of Health and Environmental Control to provide notice to those members of the public that may be affected by a planned corrective action. A copy of the public notice is enclosed for your information. The installation of recovery/ injection wells on your property may be necessary as part of the corrective action. Additionally, periodic sampling of the monitoring wells on your property will be necessary. CES is required to coordinate any activity on your property with you. Your continued cooperation is appreciated.

If you have any questions or comments regarding the proposed corrective action, please contact me by phone at (803) 898-0606, by fax at (803) 898-0673, or by email at bryantjc@dhec.sc.gov. All comments should be submitted on or before April 30, 2014.

Sincerely,

John C. Bryant, Hydrogeologist

Corrective Action Section UST Management Division

Bureau of Land and Waste Management

enc:

Public Notice

Citizens Guide

cc:



JACK AND ALEXANDRIA LEE 3733 GREENBRAIR DRIVE COLUMBIA, SOUTH CAROLINA 29206

MAR 2 7 2014

Re:

Public Notice of Proposed Corrective Action

Clouds Chevron, 1600 Two Notch Road, Columbia, SC

UST Permit # 12352

Corrective Action Plan Received March 24, 2014

Richland County

Dear Mr. Lee:

As you are aware, petroleum products have been identified in the soil and groundwater at the University Mart and Clouds Chevron facilities. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services has been retained to initiate corrective action of the impacted soil and groundwater. Crawford Environmental Services has submitted a Corrective Action Plan (CAP) for surfactant injection and vacuum extraction, in-situ chemical oxidation, and nutrient and biological injections in addition to natural attenuation. A copy of the CAP has been sent to you by Crawford Environmental Services. Please contact me if you do not receive the CAP.

Section 280.67 of the South Carolina Underground Storage Tank Regulations requires the South Carolina Department of Health and Environmental Control to provide notice to those members of the public that may be affected by a planned corrective action. A copy of the public notice is enclosed for your information. The installation of recovery/ injection wells is necessary as part of the corrective action. Crawford Environmental Services is required to coordinate all activities with the affected property owners. Your continued cooperation is appreciated.

If you have any questions or comments regarding the proposed corrective action, please contact me by phone at (803) 898-0606, by fax at (803) 898-0673, or by email at bryantjc@dhec.sc.gov. All comments should be submitted on or before April 30, 2014.

Sincerely,

John C. Bryant, Hydrogeologist

Corrective Action Section UST Management Division

Bureau of Land and Waste Management

enc:

Public Notice

Citizens Guide

cc:



WALLACE M. SCOTT 76 WHITEFORD WAY LEXINGTON, SOUTH CAROLINA 29072

MAR 2 7 2014

Re:

Public Notice of Proposed Corrective Action

Clouds Chevron, 1600 Two Notch Road, Columbia, SC

UST Permit # 07777

Corrective Action Plan Received March 24, 2014

Richland County

Dear Mr. Scott:

As you are aware, petroleum products have been identified in the soil and groundwater at the University Mart and Clouds Chevron facilities. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services has been retained to initiate corrective action of the impacted soil and groundwater. Crawford Environmental Services has submitted a Corrective Action Plan (CAP) for surfactant injection and vacuum extraction, in-situ chemical oxidation, and nutrient and biological injections in addition to natural attenuation. A copy of the CAP has been sent to you by Crawford Environmental Services. Please contact me if you do not receive the CAP.

Section 280.67 of the South Carolina Underground Storage Tank Regulations requires the South Carolina Department of Health and Environmental Control to provide notice to those members of the public that may be affected by a planned corrective action. A copy of the public notice is enclosed for your information. The installation of recovery/ injection wells is necessary as part of the corrective action. Crawford Environmental Services is required to coordinate all activities with the affected property owners. Your continued cooperation is appreciated.

If you have any questions or comments regarding the proposed corrective action, please contact me by phone at (803) 898-0606, by fax at (803) 898-0673, or by email at bryantjc@dhec.sc.gov. All comments should be submitted on or before April 30, 2014.

Sincerely,

John C. Bryant, Hydrogeologist Corrective Action Section

UST Management Division

Bureau of Land and Waste Management

enc:

Public Notice

Citizens Guide

cc:



ACME PETROLEUM AND FUEL COMPANY 543 COX ROAD STE C **GASTONIA, NORTH CAROLINA 28054**

MAR 2 7 2014

Re:

Public Notice of Proposed Corrective Action

University Mart, 2367 Taylor Street, Columbia, SC

UST Permit # 07584; Release 1 and 2

Corrective Action Plan Received March 24, 2014

Richland County

To Whom It May Concern:

As you are aware, petroleum products have been identified in the soil and groundwater at the University Mart and Clouds Chevron facilities. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services has been retained to initiate corrective action of the impacted soil and groundwater. Crawford Environmental Services has submitted a Corrective Action Plan (CAP) for surfactant injection and vacuum extraction, in-situ chemical oxidation, and nutrient and biological injections in addition to natural attenuation. A copy of the CAP has been sent to you by Crawford Environmental Services. Please contact me if you do not receive the CAP.

Section 280.67 of the South Carolina Underground Storage Tank Regulations requires the South Carolina Department of Health and Environmental Control to provide notice to those members of the public that may be affected by a planned corrective action. A copy of the public notice is enclosed for your information. The installation of recovery/injection wells is necessary as part of the corrective action. Crawford Environmental Services is required to coordinate all activities with the affected property owners. Your continued cooperation is appreciated.

If you have any questions or comments regarding the proposed corrective action, please contact me by phone at (803) 898-0606, by fax at (803) 898-0673, or by email at bryantic@dhec.sc.gov. All comments should be submitted on or before April 30, 2014.

Sincerely,

John C. Bryant, Hydrogeologist Corrective Action Section

UST Management Division

Bureau of Land and Waste Management

enc:

Public Notice

Citizens Guide

cc:



MR CHARLES F. CRAWFORD, III CRAWFORD ENVIRONMENTAL SERVICES 104 CORPORATE BLVD STE 412 WEST COLUMBIA SC 29169

MAR 2 7 20141



Re:

Corrective Action Award

UST Permit # 07584, University Mart, 2367 Taylor St., Columbia, SC
Release #1 reported January 30, 1991; CA#47811
Release #2 reported April 17, 1998; CA#47812
UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 31, 1991; CA#47813
UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 30, 1991; CA#47814
Contract #IFB-5400007095-1/30/2014-EMW; PO # 4600322226
Richland County

Dear Mr. Crawford:

As you are aware, the Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control has determined that active corrective action is necessary at the referenced facility. On January 7, 2014, you were awarded the corrective action contract in the amount of \$540,000.00, which will be funded by the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Per contract requirements, the Quality Assurance Project Plan (QAPP) for the Initial Monitoring Report must be submitted within 15 days of the award date (Received March 21, 2014), the corrective action plan with a QAPP Addendum for corrective action must be submitted within 30 days of the award date (Received March 24, 2014), and the Initial Monitoring Report must be submitted within 45 days of the QAPP Addendum approval date (on or before May 25, 2014). A signed copy of the Right-of-Entry and the approved QAPP addendum for the referenced facility is enclosed. Please coordinate with each landowner for access and keep any inconveniences to the affected landowners to a minimum. Please also note that in accordance with contract specifications, copies of all plans and reports should be sent to all affected property owners listed in the bid solicitation appendix.

If you have any questions or need additional information, please contact me at (803) 898-0606 or bryantjc@dhec.sc.gov.

Sincerely,

John C. Bryant, Hydrogeologist

Corrective Action Section UST Management Division

Bureau of Land and Waste Management

enc:

Cost Agreements
Right of Entry

Signed QAPP Addendum

cc:

Richard E. Fay, 2020 Charlotte Plaza, 201 South College St., Charlotte NC 28244-2020 (w/o enc) Mr. Pete Overton, Acme Petroleum and Fuel Company, 543 Cox Rd. Ste. C, Gastonia SC 28054 (w/o enc)

Mr. Mahesh Patel, Fast Point Food Stores, 2811 Reidville Rd. Ste. 11, Spartanburg SC 29301-3227 (w/o enc)

Mrs. Wallace Scott, 76 Whiteford Way, Lexington SC 29072 (w/o enc)

Mr. Andrew Diggins, Providence Hospital, 2345 Forest Dr., Columbia SC 29204 (w/o enc)

Ms. Bette Gordon Bateman, c/o Jesse T. Reese, PO Box 1026, Columbia, SC 29201 (w/o enc)

W.L. Boyd III, 455 Alexander Cir., Columbia SC 29206 (w/o enc)

James A. & Marilyn L. Bundrick, 217 Palmer Dr., Lexington SC 29072 (w/o enc)

Mr. James Morrison Jr., 1014 Laurens St., Columbia SC 29201 (w/o enc)

Pope D. Johnson III, McCutchen Blanton Johnson & Barnette LLP, PO Drawer 11209, Columbia SC 29211-1209 (w/o enc)

Mr. Joe T. Suddeth, 302 Biddle Rd., Columbia SC 29212 (w/o enc)

Chang Moon Sueng, 2358 Taylor St., Columbia SC 29204 (w/o enc)

Dr. David H. Swinton, Benedict College, 1600 Harden St., Columbia SC 29204 (w/o enc)

Sylvan Food Systems Inc., 1245 Boston Ave., West Columbia SC 29170 (w/o enc)

Ms. Linda Warren, 1527 Lyon St., Columbia SC 29204 (w/o enc)

Gilbert Walker, Columbia Housing Authority, PO Box 4307, Columbia SC 29204 (w/o enc)

Technical Files (w/o enc)



April 11, 2014

(BOW-GWPROT-CAW)
Mr. Charles F. Crawford
Crawford Environmental Services, Inc.
15 Church Ave, SW
Roanoke, VA 24011

Re:

Underground Injection Control Permit #SCHE03020184M Cloud's Chevron/Handy Panty #65/University Mart Site

Richland County

Dear Mr. Crawford:

Enclosed is a Permit to Construct for six (6) Class VA-I injection wells at the Cloud's Chevron/Handy Panty #65/University Mart Site, Richland County as requested in the permit application received March 27, 2014.

South Carolina Board of Health and Environmental Control Guide to Board Review Pursuant to S.C. Code Ann. § 44-1-60 Effective April 1, 2013

The decision of the South Carolina Department of Health and Environmental Control (Department) becomes the final agency decision fifteen (15) calendar days after notice of the decision has been mailed to the applicant, permittee, licensee and affected persons who have requested in writing to be notified, unless a written request for final review accompanied by a filing fee in the amount of \$100 is filed with Department by the applicant, permittee, licensee or affected person.

Applicants, permittees, licensees, and affected parties are encouraged to engage in mediation during the final review process.

If the Board declines in writing to schedule a final review conference, the Department's decision becomes the final agency decision and an applicant, permittee, licensee, or affected person may request a contested case hearing before the Administrative Law Court within thirty (30) calendar days after notice is mailed that the Board declined to hold a final review conference.

I. Filing of Request for Final Review

- 1. A written Request for Final Review (RFR) and the required filing fee of one hundred dollars (\$100) must be received by Clerk of the Board within fifteen (15) calendar days after notice of the staff decision has been mailed to the applicant, permittee, licensee, or affected persons. If the 15th day occurs on a weekend or State holiday, the RFR must be received by the Clerk on the next working day. RFRs will not be accepted after 5:00 p.m.
- 2. RFRs shall be in writing and should include, at a minimum, the following information:
 - The grounds for amending, modifying, or rescinding the staff decision;
 - a statement of any significant issues or factors the Board should consider in deciding how to handle the matter;
 - the relief requested; and
 - a copy of the decision for which review is requested.

3. RFRs should be filed in person or by mail at the following address:

South Carolina Board of Health and Environmental Control

Attention: Clerk of the Board

2600 Bull Street

Columbia, South Carolina 29201

Alternatively, RFR's may be filed with the Clerk by facsimile (803-898-3393) or by electronic mail (boardclerk@dhec.sc.goy).

- 4. The filing fee maybe paid by cash, certified check or credit card. If a RFR is filed by facsimile or electronic mail, the filing fee may be mailed to the Clerk of the Board and the envelope must be postmarked within the time allowed for filing a RFR.
- 5. If there is any perceived discrepancy in compliance with this RFR filing procedure, the Clerk should consult with the Chairman or, if the Chairman is unavailable, the Vice-Chairman. The Chairman or the Vice-Chairman will determine whether the RFR is timely and properly filed and direct the Clerk to (1) process the RFR for consideration by the Board or (2) return the RFR and filing fee to the requestor with a cover letter explaining why the RFR was not timely or properly filed. Processing an RFR for consideration by the Board shall not be interpreted as a waiver of any claim or defense by the agency in subsequent proceedings concerning the RFR.
- 6. If the RFR will be processed for Board consideration, the Clerk will send an Acknowledgement of RFR to the Requestor and the applicant, permittee, or licensee, if other than the Requestor.
- 7. The Clerk will email the RFR to all Board members for review, and all Board members will confirm receipt of the RFR to the Clerk by email. If a Board member does not confirm receipt of the RFR within twenty-four (24) hour period, the Clerk will contact the Board member and confirm receipt. If a Board member believes the RFR should be considered by the RFR Committee, he or she will respond to the Clerk's email within forty-eight (48) hours and will request further review. If no Board member requests further review of the RFR within the forty-eight (48) hour period, the Clerk will send a letter by certified mail to the Requestor, with copy by regular mail to the applicant, permittee, or licensee, if not the Requestor, stating the Board will not hold a Final Review Conference. A copy of the Notice of Appeal Procedure will be included with the letter.

NOTE: If the time periods described above end on a weekend or State holiday, the time is automatically extended to 5:00 p.m. on the next business day.

8. If the RFR is to be considered by the RFR Committee, the Clerk will forward a copy of the RFR to Department staff and Office of General Counsel. A Department response to the RFR should be provided by Department staff to the Clerk within eight (8) working days after the RFR is forwarded.

II. Final Review Conference Scheduling

- 1. If a Conference will be held, the Clerk will send a letter by certified mail to the Requestor, with copy by regular mail to the applicant, permittee, or licensee, if not the Requestor, informing the Requestor of the determination.
- 2. The Clerk will request Department staff provide the Administrative Record.
- 3. The Clerk will send Notice of Final Review Conference to the parties at least ten (10) days before the Conference will be publicly noticed and should:
 - include the place, date and time of the Conference;
 - state the presentation times allowed in the Conference;
 - state evidence may be presented at the Conference;
 - if the conference will be held by committee, include a copy of the Chairman's order appointing the committee; and
 - inform the Requestor of his or her right to request a transcript of the proceedings of the Conference prepared at Requestor's expense.
- 4. If a party requests a transcript of the proceedings of the Conference and agrees to pay all related costs in writing, including costs for the transcript, the Clerk will schedule a court reporter for the Conference.

III. Final Review Conference and Decision

- 1. The order of presentation in the Conference will, subject to the presiding officer's discretion, be as follows:
 - Department staff will provide an overview of the staff decision and the applicable law to include [10 minutes]:
 - Type of decision (permit, enforcement, etc.) and description of the program.
 - Parties
 - Description of facility/site
 - Applicable statutes and regulations
 - Decision and materials relied upon in the administrative record to support the staff decision.
 - Requestor(s) will state the reasons for protesting the staff decision and may provide evidence to support amending, modifying, or rescinding the staff decision. [15 minutes] NOTE: The burden of proof is on the Requestor(s)
 - Rebuttal by Department staff[15 minutes]
 - Rebuttal by Requestor(s)[10 minutes]

Note: Times noted in brackets are for information only and are superseded by times stated in the Notice of Final Review Conference or by the presiding officer.

- 2. Parties may present evidence during the conference; however, the rules of evidence do not apply.
- 3. At any time during the conference, the officers conducting the conference may request additional information and may question the Requestor, the staff, and anyone else providing information at the conference.
- 4. The presiding officer, in his or her sole discretion, may allow additional time for presentations and may impose time limits on the Conference.
- 5. All Conferences are open to the public.
- 6. The officers may deliberate in closed session.
- 7. The officers may announce the decision at conclusion of the Conference or it may be reserved for consideration.
- 8. The Clerk will mail the written final agency decision (FAD) to parties within 30 days after the Conference. The written decision must explain the basis for the decision and inform the parties of their right to request a contested case hearing before the Administrative Law Court. The FAD will be sent by certified mail, return receipt requested.
- 9. Communications may also be sent by electronic mail, in addition to the forms stated herein, when electronic mail addresses are provided to the Clerk.

The above information is provided as a courtesy; parties are responsible for complying with all applicable legal requirements.

Please submit all of the well logs for the installed wells to schedule a well inspection. An inspection of the UIC System must be conducted prior to issuance of the Permit to Operate. If you have any questions, please call Christopher Wargo at (803) 898-3799.

Sincerely

Christopher Wargo, Hydrogeologist Groundwater Protection Section

Bureau of Water



WATER MONITORING ASSESSMENT & PROTECTION DIVISION

Injection Well Construction Permit for Class II, III, and V.A. Injection Well(s)

Permit #SCHE03020184M

Date Issued:

April 11, 2014

Date Expired:

April 11, 2015

For (Operator): Crawford Environmental Services, Inc.

In accordance with R.61-72 this permit will become final unless it is appealed within fifteen (15) days of the issuance date.

In accordance with provisions of Title 48, Chapter 1, South Carolina Code of Laws, 1976, as amended, permission is granted for construction of six (6) Class VA-I injection wells with a true diameter of four (4) inches, and a total depth of approximately thirty-five (35) feet located at Cloud's Chevron/Handy Panty #65/University Mart, Richland County, SC with the following provisions:

- The operator shall submit completed SCDHEC well record forms to the Departments Water Monitoring, Assessment & Protection Division after completion of the injection wells.
- 2) Upon completion of construction, injection activities <u>shall not commence prior</u> to receiving approval from the Department to operate the injection wells.
- When the injection wells are no longer in use, or upon request by the Department, within sixty (60) days all injection wells must be permanently abandoned in accordance with the South Carolina Well Standards and Regulations (R.61-71).

Charles Gorman, Director

Groundwater Protection Section

Bureau of Water

STATEMENT OF BASIS - UIC DRAFT PERMIT #SCHE03020184M

In accordance with the South Carolina Underground Injection Control Regulations, Section R61-87.13(J), this Statement of Basis has been prepared for the Cloud's Chevron/Handy Panty #65/University Mart Site Underground Injection Control permit application received March 27, 2014.

Ownership of the proposed injection wells is Crawford Environmental Services, Inc., 15 Church Ave, SW, Roanoke, VA 24011. The permit (UIC SCHE03020184M) is for the construction of six (6) injection wells for a corrective action system at the Cloud's Chevron/Handy Panty #65/University Mart Site. The intent of the injection wells is to inject surfactant,hydrogen peroxide, PetroBac and NutriMax into the subsurface to remediate contaminated groundwater as described in the cleanup plan dated March 20, 2014. The final permit for the underground injection proposal has been prepared based on staff review and the application of the Pollution Control Act of South Carolina and the Underground Injection Control Regulations of South Carolina.

Conditions of the permit issuance include the submittal of well records for all injection wells installed and the inspection of well construction by the Department prior to injection.



April 11, 2014

(BOW-GWPROT-CAW) Mr. Charles F. Crawford Crawford Environmental Services, Inc. 15 Chruch Ave., SW Roanoke, VA 24011

Re:

Underground Injection Control Permit #SCHE03020184 Cloud's Chevron/Handy Panty #65/ University Mart Site

Richland County

Dear Mr. Crawford:

Enclosed is a Permit to Operate fifty-eight (58) Class VA-I (Aquifer Remediation) injection wells at the Cloud's Chevron/Handy Panty #65/ University Mart Site, Richland County, SC.

South Carolina Board of Health and Environmental Control Guide to Board Review Pursuant to S.C. Code Ann. § 44-1-60 Effective April 1, 2013

The decision of the South Carolina Department of Health and Environmental Control (Department) becomes the final agency decision fifteen (15) calendar days after notice of the decision has been mailed to the applicant, permittee, licensee and affected persons who have requested in writing to be notified, unless a written request for final review accompanied by a filing fee in the amount of \$100 is filed with Department by the applicant, permittee, licensee or affected person.

Applicants, permittees, licensees, and affected parties are encouraged to engage in mediation during the final review process.

If the Board declines in writing to schedule a final review conference, the Department's decision becomes the final agency decision and an applicant, permittee, licensee, or affected person may request a contested case hearing before the Administrative Law Court within thirty (30) calendar days after notice is mailed that the Board declined to hold a final review conference.

I. Filing of Request for Final Review

- A written Request for Final Review (RFR)and the required filing fee of one hundred dollars (\$100) must be received by Clerk of the Board within fifteen (15)calendar days after notice of the staff decision has been mailed to the applicant, permittee, licensee, or affected persons. If the 15th day occurs on a weekend or State holiday, the RFR must be received by the Clerk on the next working day. RFRs will not be accepted after 5:00 p.m.
- 2. RFRs shall be in writing and should include, at a minimum, the following information:
 - The grounds for amending, modifying, or rescinding the staff decision;
 - a statement of any significant issues or factors the Board should consider in deciding how to handle the matter;
 - the relief requested; and
 - a copy of the decision for which review is requested.

3. RFRs should be filed in person or by mail at the following address:

South Carolina Board of Health and Environmental Control

Attention: Clerk of the Board

2600 Bull Street

Columbia, South Carolina 29201

Alternatively, RFR's may be filed with the Clerk by facsimile (803-898-3393) or by electronic mail (boardclerk@dhec.sc.gov).

- 4. The filing fee maybe paid by cash, certified check or credit card. If a RFR is filed by facsimile or electronic mail, the filing fee may be mailed to the Clerk of the Board and the envelope must be postmarked within the time allowed for filing a RFR.
- 5. If there is any perceived discrepancy in compliance with this RFR filing procedure, the Clerk should consult with the Chairman or, if the Chairman is unavailable, the Vice-Chairman. The Chairman or the Vice-Chairman will determine whether the RFR is timely and properly filed and direct the Clerk to (1) process the RFR for consideration by the Board or (2) return the RFR and filing fee to the requestor with a cover letter explaining why the RFR was not timely or properly filed. Processing an RFR for consideration by the Board shall not be interpreted as a waiver of any claim or defense by the agency in subsequent proceedings concerning the RFR.
- 6. If the RFR will be processed for Board consideration, the Clerk will send an Acknowledgement of RFR to the Requestor and the applicant, permittee, or licensee, if other than the Requestor.
- 7. The Clerk will email the RFR to all Board members for review, and all Board members will confirm receipt of the RFR to the Clerk by email. If a Board member does not confirm receipt of the RFR within twenty-four (24) hour period, the Clerk will contact the Board member and confirm receipt. If a Board member believes the RFR should be considered by the RFR Committee, he or she will respond to the Clerk's email within forty-eight (48) hours and will request further review. If no Board member requests further review of the RFR within the forty-eight (48) hour period, the Clerk will send a letter by certified mail to the Requestor, with copy by regular mail to the applicant, permittee, or licensee, if not the Requestor, stating the Board will not hold a Final Review Conference. A copy of the Notice of Appeal Procedure will be included with the letter.

NOTE: If the time periods described above end on a weekend or State holiday, the time is automatically extended to 5:00 p.m. on the next business day.

8. If the RFR is to be considered by the RFR Committee, the Clerk will forward a copy of the RFR to Department staff and Office of General Counsel. A Department response to the RFR should be provided by Department staff to the Clerk within eight (8) working days after the RFR is forwarded.

II. Final Review Conference Scheduling

- 1. If a Conference will be held, the Clerk will send a letter by certified mail to the Requestor, with copy by regular mail to the applicant, permittee, or licensee, if not the Requestor, informing the Requestor of the determination.
- 2. The Clerk will request Department staff provide the Administrative Record.
- 3. The Clerk will send Notice of Final Review Conference to the parties at least ten (10) days before the Conference. The Conference will be publicly noticed and should:
 - include the place, date and time of the Conference;
 - state the presentation times allowed in the Conference;
 - state evidence may be presented at the Conference;
 - if the conference will be held by committee, include a copy of the Chairman's order appointing the committee; and
 - inform the Requestor of his or her right to request a transcript of the proceedings of the Conference prepared at Requestor's expense.
- 4. If a party requests a transcript of the proceedings of the Conference and agrees to pay all related costs in writing, including costs for the transcript, the Clerk will schedule a court reporter for the Conference.

III. Final Review Conference and Decision

- 1. The order of presentation in the Conference will, subject to the presiding officer's discretion, be as follows:
 - Department staff will provide an overview of the staff decision and the applicable law to include [10 minutes]:
 - Type of decision (permit, enforcement, etc.) and description of the program.
 - Parties
 - Description of facility/site
 - Applicable statutes and regulations
 - Decision and materials relied upon in the administrative record to support the staff decision.
 - Requestor(s) will state the reasons for protesting the staff decision and may provide evidence to support amending, modifying, or rescinding the staff decision. [15 minutes] NOTE: The burden of proof is on the Requestor(s)
 - Rebuttal by Department staff[15 minutes]
 - Rebuttal by Requestor(s)[10 minutes]

Note: Times noted in brackets are for information only and are superseded by times stated in the Notice of Final Review Conference or by the presiding officer.

- 2. Parties may present evidence during the conference; however, the rules of evidence do not apply.
- 3. At any time during the conference, the officers conducting the conference may request additional information and may question the Requestor, the staff, and anyone else providing information at the conference.
- 4. The presiding officer, in his or her sole discretion, may allow additional time for presentations and may impose time limits on the Conference.
- 5. All Conferences are open to the public.
- 6. The officers may deliberate in closed session.
- 7. The officers may announce the decision at conclusion of the Conference or it may be reserved for consideration.
- 8. The Clerk will mail the written final agency decision (FAD) to parties within 30 days after the Conference. The written decision must explain the basis for the decision and inform the parties of their right to request a contested case hearing before the Administrative Law Court. The FAD will be sent by certified mail, return receipt requested.
- 9. Communications may also be sent by electronic mail, in addition to the forms stated herein, when electronic mail addresses are provided to the Clerk.

The above information is provided as a courtesy; parties are responsible for complying with all applicable legal requirements.

If you have any questions, please call Christopher Wargo at (803) 898-3799.

Sincerely

Christopher Wargo, Hydrogeologist Groundwater Protection Section

Bureau of Water

John Bryant, SCHEC-BLWM-USTP

cc:



WATER MONITORING ASSESSMENT & PROTECTION DIVISION

Injection Well Operating Approval

for

Class II, III, and V.A. Injection Well(s)

Permit #SCHE03020184

Date of Issue: April 11, 2014

In accordance with R.61-72 this permit will become final unless it is appealed within fifteen (15) days of the issuance date.

In accordance with the provisions of Title 48, Chapter 1, South Carolina Code of Laws, 1976, as amended, and pursuant to receiving a Permit to Operate fifty-eight (58) Class VA-I (Aquifer Remediation) injection wells, authorization is granted to Crawford Environmental Services, Inc. to operate fifty-eight (58) Class VA-I (Aquifer Remediation) injection wells located at the Cloud's Chevron/Handy Panty #65/ University Mart Site, Richland County, SC, and are subject to the attached provisos noted for the operator.

The Class VA-I injection wells are one (1) inches in diameter and approximately thirty-five to forty-five (35-45) feet deep

Pursuant to Title 48, Chapter 1, South Carolina Code of Laws, 1976, as amended, this authorization may be rescinded if these injection wells should, at any time, contaminate, pollute, or otherwise adversely affect other water in the vicinity or for any other conditions contained in R61-87, Title 48, Chapter 1, South Carolina Code of Laws, 1976, as amended.

Expires: April 11, 2019

Charles Gorman, Director

Groundwater Protection Section

Bureau of Water

Date April 11, 2014

Provisions to the Injection Well Operating Approval for
Underground Injection Well Permit #SCHE03020184
Cloud's Chevron/Handy Panty #65/ University Mart
Richland County, S.C.
April 11, 2014

- 1) Construction of new or abandonment of existing wells must be reported to the Department within thirty (30) days of completion.
- Only ambient air, hydrogen peroxide, PetroBac (microbes) and NutriMax (nutrient mix) as described in the corrective action plan may be injected into the subsurface at the fifty-eight (58) Class VA-I (Aquifer Remediation) injection wells. Any changes in the system operation other than as presented in the UIC Permit Application must be reported to the Department <u>prior</u> to implementation.



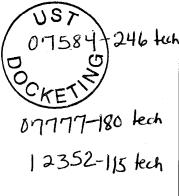
Catherine B. Templeton, Director Promoting and protecting the health of the public and the environment

CRAWFORD ENVIONMENTAL SERVICES MR CHARLES F. CRAWFORD, III 15 CHURCH AVENUE SW ROANOKE, VA 24011

Re: Corrective Action Award

UST Permit # 07584, University Mart, 2367 Taylor St., Columbia, SC
Release #1 reported January 30, 1991; CA#47811
Release #2 reported April 17, 1998; CA#47812
UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 31, 1991; CA#47813
UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 30, 1991; CA#47814
Contract #IFB-5400007095-1/30/2014-EMW; PO # 4600322226
Richland County

APR 1 8 2014



Dear Mr. Crawford:

As you are aware, the Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control has determined that active corrective action is necessary at the referenced facility. On January 7, 2014, you were awarded the corrective action contract in the amount of \$540,000.00, which will be funded by the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Per contract requirements, the Quality Assurance Project Plan (QAPP) for the Initial Monitoring Report must be submitted within 15 days of the award date (Received March 21, 2014), the corrective action plan with a QAPP Addendum for corrective action must be submitted within 30 days of the award date (Received March 24, 2014), and the Initial Monitoring Report must be submitted within 45 days of the QAPP Addendum approval date (on or before May 25, 2014). A signed copy of the Right-of-Entry and the approved QAPP addendum for the referenced facility is enclosed. Please coordinate with each landowner for access and keep any inconveniences to the affected landowners to a minimum. Please also note that in accordance with contract specifications, copies of all plans and reports should be sent to all affected property owners listed in the bid solicitation appendix.

If you have any questions or need additional information, please contact me at (803) 898-0606 or bryantjc@dhec.sc.gov.

Sincerely,

John C. Bryant, Hydrogeologist

Corrective Action Section

UST Management Division

Bureau of Land and Waste Management

enc: Cos

Cost Agreements

Signed QAPP Addendum

Crawford Environmental Services, Inc. Handy Pantry #65 / University Mart & Cloud's Chevron Site IDs: #07584, #07777 and #12352



Section A: Project Management

A1 Title and Approval Page

Quality Assurance Project Plan
Addendum (Corrective Action Plan) to the SC DHEC UST Programmatic QAPP
For

Handy Pantry #65 / University Mart & Cloud's Chevron UST Permit #: 07584, 07777 and 12352

1600 Two Notch Road, Columbia, SC

Prepared by:

Charles F. Crawford, III Crawford Environmental Services 15 Church Ave., SW Roanoke, VA 24015

SCDHEC Site Rehabilitation Contractor Certification Number: UCC-0388

Approvals Susan Fulmer Date SC DHEC Project Manager Signature Charles F. Crawford, III Date 03.21.14 Site Rehabilitation Contractor Signature Daniel J. Fisher Date 03.21.14 **Project Verifier** Signature Ashley Amick Date 03.21.14 **Laboratory Director** Signature Access Analytical Inc. Mehmet Yildrim Date 03.21.14 **Laboratory Director** Signature Analytical Environmental Services Inc.,

Revision 0 Page 1 of 27 CES QAPPA ver. 5.0 -Sample 3/19/2014

Approved Cost Agreement 47814

Facility: 12352 CLOUDS CHEVRON

FULMERSB PO Number:

Task / Description	<u>Categories</u>	Item Description	Qty / Pct	Unit Price	<u>Amount</u>
22 CORRECTIVE	ACTION		,		
	FP DISSO FREE	1E CAM/TI AND/OR OPERATIONAL	1.0000	540,000.00	54,000.00
	PRODUCT DISSOLVE	2E FREE PRODUCT REMOVAL	1.0000	540,000.00	13,500.00
		3E 60% REDUCTION COC - REMOVAL FP	1.0000	540,000.00	13,500.00
		4E 90% REDUCTION OF COC	1.0000	540,000.00	5,400.00
		5E 100% REDUCTION OF COC	1.0000	540,000.00	5,400.00
		6E 100% RED IN COC/SYSTEM REMOVAL	1.0000	540,000.00	43,200.00

Total Amount

Approved Cost Agreement 47813

Facility: 07777 CLOUDS CHEVRON

FULMERSB PO Number:

Task / Description	<u>Categories</u>	Item Description	Qty / Pct	Unit Price	<u>Amount</u>
22 CORRECTIVE	ACTION				
	FP DISSO FREE	1E CAM/TI AND/OR OPERATIONAL	1.0000	540,000.00	54,000.00
	PRODUCT DISSOLVE	2E FREE PRODUCT REMOVAL	1.0000	540,000.00	13,500.00
		3E 60% REDUCTION COC - REMOVAL FP	1.0000	540,000.00	13,500.00
		4E 90% REDUCTION OF COC	1.0000	540,000.00	5,400.00
		5E 100% REDUCTION OF COC	1.0000	540,000.00	5,400.00
		6E 100% RED IN COC/SYSTEM REMOVAL	1.0000	540,000.00	43,200.00

Total Amount 135,000.00

Approved Cost Agreement 47811 Facility: 07584 UNIVERSITY MART

FULMERSB PO Number:

Task / Description	<u>Categories</u>	Item Description	Qty / Pct	Unit Price	<u>Amount</u>
22 CORRECTIVE	ACTION	· · · · · · · · · · · · · · · · · · ·			. ,.,
		1E CAM/TI AND/OR OPERATIONAL	1.0000	540.000.00	54.000.00
	PRODUCT DISSOLVE	2E FREE PRODUCT REMOVAL	1.0000	540,000.00	13,500.00
		3E 60% REDUCTION COC - REMOVAL FP	1.0000	540,000.00	13,500.00
		4E 90% REDUCTION OF COC	1.0000	540,000.00	5,400.00
		5E 100% REDUCTION OF COC	1.0000	540,000.00	5,400.00
		6E 100% RED IN COC/SYSTEM REMOVAL	1.0000	540,000.00	43,200.00

135,000.00 **Total Amount**

Approved Cost Agreement 47812 Facility: 07584 UNIVERSITY MART

FULMERSB PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	<u>Amount</u>
22 CORRECTIVE	ACTION				
	FP DISSO FREE	1E CAM/TI AND/OR OPERATIONAL	1.0000	540,000.00	54,000.00
	PRODUCT DISSOLVE	2E FREE PRODUCT REMOVAL	1.0000	540,000.00	13,500.00
		3E 60% REDUCTION COC - REMOVAL FP	1.0000	540,000.00	13,500.00
		4E 90% REDUCTION OF COC	1.0000	540,000.00	5,400.00
		5E 100% REDUCTION OF COC	1.0000	540,000.00	5,400.00
		6E 100% RED IN COC/SYSTEM REMOVAL	1.0000	540,000.00	43,200.00

135,000.00 **Total Amount**



Catherine B. Templeton, Director Promoting and protecting the health of the public and the environment

CRAWFORD ENVIONMENTAL SERVICES MR CHARLES F. CRAWFORD, III 15 CHURCH AVENUE SW ROANOKE, VA 24011

'APR 3 0 2014



Re: Notice to Proceed

UST Permit # 07584, University Mart, 2367 Taylor St., Columbia, SC
Release #1 reported January 30, 1991; CA#47811
Release #2 reported April 17, 1998; CA#47812
UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 31, 1991; CA#47813
UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 30, 1991; CA#47814
Contract #IFB-5400007095-1/30/2014-EMW; PO # 4600322226
Corrective Action Plan received March 24, 2014
Public Notice Completed April 30, 2014
Richland County

Dear Mr. Charles Crawford:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced documents. As required by Section 280.67 of the South Carolina Underground Storage Tank Regulations R.61-92, the UST Management Division has provided a public notice period including notice of the pending corrective actions to the surrounding landowners. No objections to the proposed actions were expressed; therefore, the Corrective Action Plan (CAP) is approved. All work must be completed in accordance with the referenced bid specifications. The UST Management Division recognizes that modifications to the CAP are usually necessary as site conditions change during implementation. If changes to the CAP are later deemed necessary to achieve the Site-Specific Target Levels in a timely manner, please notify the UST Management Division. Any changes or modifications to the CAP will not result in a change order. The required Underground Injection Control Permit is enclosed.

As stated in Section 3.5 B 5, the Corrective Action Plan is to be implemented within 30 days from receipt of this letter. As stated in Section 3.4 B 3, the Site Incentive Period will commence on the Corrective Action System Startup Date. As stated in Section 3.5 B 8, monitoring reports are to be submitted on a semi-annual basis. The first Corrective Action Status (CASE) Report will be due 90 days from the date of the CAP Implementation Report. The details of the system installation, including injection well logs, should be documented in the CAP Implementation Report, due 60 days from this letter.

Mr.Crawford Page 2

The Agency grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the chemicals of concern (COC) concentrations, based on laboratory analysis, are below Risk Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on site. The State Underground Petroleum Environmental Response Bank (SUPERB) Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

All future invoices and/or other rehabilitation activities must comply with current SUPERB criteria per Section 44-2-20(2) and the referenced bid special conditions. Please reference Cost Agreement #'s 47811, 47812, 47813 and 47814 on all pay-for-performance invoices. The first pay-for-performance invoice in the amount of \$216,000 (40%) may be submitted (on the invoice form available online at http://www.scdhec.gov/environment/admin/htm/EQC_forms.asp#Land) once the Underground Injection Control Permit to Operate has been issued and the treatment system has been placed into operation.

On all correspondence regarding this site, please reference UST Permit #'s 07777, 07584 and 12352. On the invoices, please reference the UST Permit Numbers and Cost Agreement Numbers. If you have questions concerning this correspondence, feel free to contact me by telephone at (803) 898-0606, by fax at (803) 898-0673, or bryantjc@dhec.sc.gov.

Sincerely

John C. Bryant, Hydrogeologist

Corrective Action Section UST Management Division

Bureau of Land and Waste Management

enc: \(\)

UIC Permit

cc:

Technical File (w/enc)



Catherine B. Templeton, Director Promoting and protecting the health of the public and the environment

April 11, 2014

(BOW-GWPROT-CAW) Mr. Charles F. Crawford Crawford Environmental Services, Inc. 15 Church Ave, SW Roanoke, VA 24011

Re:

Underground Injection Control Permit #SCHE03020184M Cloud's Chevron/Handy Panty #65/University Mart Site Richland County

Dear Mr. Crawford:

Enclosed is a Permit to Construct for six (6) Class VA-I injection wells at the Cloud's Chevron/Handy Panty #65/University Mart Site, Richland County as requested in the permit application received March 27, 2014.

South Carolina Board of Health and Environmental Control Guide to Board Review Pursuant to S.C. Code Ann. § 44-1-60 Effective April 1, 2013

The decision of the South Carolina Department of Health and Environmental Control (Department) becomes the final agency decision fifteen (15) calendar days after notice of the decision has been mailed to the applicant, permittee, licensee and affected persons who have requested in writing to be notified, unless a written request for final review accompanied by a filing fee in the amount of \$100 is filed with Department by the applicant, permittee, licensee or affected person.

Applicants, permittees, licensees, and affected parties are encouraged to engage in mediation during the final review process.

If the Board declines in writing to schedule a final review conference, the Department's decision becomes the final agency decision and an applicant, permittee, licensee, or affected person may request a contested case hearing before the Administrative Law Court within thirty (30) calendar days after notice is mailed that the Board declined to hold a final review conference.

I. Filing of Request for Final Review

- 1. A written Request for Final Review (RFR)and the required filing fee of one hundred dollars (\$100) must be received by Clerk of the Board within fifteen (15)calendar days after notice of the staff decision has been mailed to the applicant, permittee, licensee, or affected persons. If the 15th day occurs on a weekend or State holiday, the RFR must be received by the Clerk on the next working day. RFRs will not be accepted after5:00 p.m.
- 2. RFRs shall be in writing and should include, at a minimum, the following information:
 - The grounds for amending, modifying, or rescinding the staff decision;
 - a statement of any significant issues or factors the Board should consider in deciding how to handle the matter;
 - the relief requested; and
 - a copy of the decision for which review is requested.

3. RFRs should be filed in person or by mail at the following address:

South Carolina Board of Health and Environmental Control

Attention: Clerk of the Board

2600 Bull Street

Columbia, South Carolina 29201

Alternatively, RFR's may be filed with the Clerk by facsimile (803-898-3393) or by electronic mail (boardclerk@dhec.sc.gov).

- 4. The filing fee maybe paid by cash, certified check or credit card. If a RFR is filed by facsimile or electronic mail, the filing fee may be mailed to the Clerk of the Board and the envelope must be postmarked within the time allowed for filing a RFR.
- 5. If there is any perceived discrepancy in compliance with this RFR filing procedure, the Clerk should consult with the Chairman or, if the Chairman is unavailable, the Vice-Chairman. The Chairman or the Vice-Chairman will determine whether the RFR is timely and properly filed and direct the Clerk to (1) process the RFR for consideration by the Board or (2) return the RFR and filing fee to the requestor with a cover letter explaining why the RFR was not timely or properly filed. Processing an RFR for consideration by the Board shall not be interpreted as a waiver of any claim or defense by the agency in subsequent proceedings concerning the RFR.
- 6. If the RFR will be processed for Board consideration, the Clerk will send an Acknowledgement of RFR to the Requestor and the applicant, permittee, or licensee, if other than the Requestor.
- 7. The Clerk will email the RFR to all Board members for review, and all Board members will confirm receipt of the RFR to the Clerk by email. If a Board member does not confirm receipt of the RFR within twenty-four (24) hour period, the Clerk will contact the Board member and confirm receipt. If a Board member believes the RFR should be considered by the RFR Committee, he or she will respond to the Clerk's email within forty-eight (48) hours and will request further review. If no Board member requests further review of the RFR within the forty-eight (48) hour period, the Clerk will send a letter by certified mail to the Requestor, with copy by regular mail to the applicant, permittee, or licensee, if not the Requestor, stating the Board will not hold a Final Review Conference. A copy of the Notice of Appeal Procedure will be included with the letter.

NOTE: If the time periods described above end on a weekend or State holiday, the time is automatically extended to 5:00 p.m. on the next business day.

8. If the RFR is to be considered by the RFR Committee, the Clerk will forward a copy of the RFR to Department staff and Office of General Counsel. A Department response to the RFR should be provided by Department staff to the Clerk within eight (8) working days after the RFR is forwarded.

II. Final Review Conference Scheduling

- 1. If a Conference will be held, the Clerk will send a letter by certified mail to the Requestor, with copy by regular mail to the applicant, permittee, or licensee, if not the Requestor, informing the Requestor of the determination.
- 2. The Clerk will request Department staff provide the Administrative Record.
- 3. The Clerk will send Notice of Final Review Conference to the parties at least ten (10) days before the Conference. The Conference will be publicly noticed and should:
 - include the place, date and time of the Conference;
 - state the presentation times allowed in the Conference;
 - state evidence may be presented at the Conference;
 - if the conference will be held by committee, include a copy of the Chairman's order appointing the committee; and
 - inform the Requestor of his or her right to request a transcript of the proceedings of the Conference prepared at Requestor's expense.
- 4. If a party requests a transcript of the proceedings of the Conference and agrees to pay all related costs in writing, including costs for the transcript, the Clerk will schedule a court reporter for the Conference.

III. Final Review Conference and Decision

- 1. The order of presentation in the Conference will, subject to the presiding officer's discretion, be as follows:
 - Department staff will provide an overview of the staff decision and the applicable law to include [10 minutes]:
 - Type of decision (permit, enforcement, etc.) and description of the program.
 - Parties
 - Description of facility/site
 - Applicable statutes and regulations
 - Decision and materials relied upon in the administrative record to support the staff decision.
 - Requestor(s) will state the reasons for protesting the staff decision and may provide evidence to support amending, modifying, or rescinding the staff decision. [15 minutes] NOTE: The burden of proof is on the Requestor(s)
 - Rebuttal by Department staff[15 minutes]
 - Rebuttal by Requestor(s)[10 minutes]

Note: Times noted in brackets are for information only and are superseded by times stated in the Notice of Final Review Conference or by the presiding officer.

- 2. Parties may present evidence during the conference; however, the rules of evidence do not apply.
- 3. At any time during the conference, the officers conducting the conference may request additional information and may question the Requestor, the staff, and anyone else providing information at the conference.
- 4. The presiding officer, in his or her sole discretion, may allow additional time for presentations and may impose time limits on the Conference.
- 5. All Conferences are open to the public.
- 6. The officers may deliberate in closed session.
- 7. The officers may announce the decision at conclusion of the Conference or it may be reserved for consideration.
- 8. The Clerk will mail the written final agency decision (FAD) to parties within 30 days after the Conference. The written decision must explain the basis for the decision and inform the parties of their right to request a contested case hearing before the Administrative Law Court. The FAD will be sent by certified mail, return receipt requested.
- 9. Communications may also be sent by electronic mail, in addition to the forms stated herein, when electronic mail addresses are provided to the Clerk.

The above information is provided as a courtesy; parties are responsible for complying with all applicable legal requirements.

Please submit all of the well logs for the installed wells to schedule a well inspection. An inspection of the UIC System must be conducted prior to issuance of the Permit to Operate. If you have any questions, please call Christopher Wargo at (803) 898-3799.

Sincerely

Christopher Wargo, Hydrogeologist

Groundwater Protection Section

Bureau of Water



Catherine B. Templeton, Director Promoting and protecting the health of the public and the environment

WATER MONITORING ASSESSMENT & PROTECTION DIVISION

Injection Well Construction Permit for Class II, III, and V.A. Injection Well(s)

Permit #SCHE03020184M

Date Issued:

April 11, 2014

Date Expired:

April 11, 2015

For (Operator): Crawford Environmental Services, Inc.

In accordance with R.61-72 this permit will become final unless it is appealed within fifteen (15) days of the issuance date.

In accordance with provisions of Title 48, Chapter 1, South Carolina Code of Laws, 1976, as amended, permission is granted for construction of six (6) Class VA-I injection wells with a true diameter of four (4) inches, and a total depth of approximately thirty-five (35) feet located at Cloud's Chevron/Handy Panty #65/University Mart, Richland County, SC with the following provisions:

- 1) The operator shall submit completed SCDHEC well record forms to the Departments Water Monitoring, Assessment & Protection Division after completion of the injection wells.
- 2) Upon completion of construction, injection activities <u>shall not commence prior</u> to receiving approval from the Department to operate the injection wells.
- When the injection wells are no longer in use, or upon request by the Department, within sixty (60) days all injection wells must be permanently abandoned in accordance with the South Carolina Well Standards and Regulations (R.61-71).

Charles Gorman, Director

Groundwater Protection Section

Bureau of Water

STATEMENT OF BASIS - UIC DRAFT PERMIT #SCHE03020184M

In accordance with the South Carolina Underground Injection Control Regulations, Section R61-87.13(J), this Statement of Basis has been prepared for the Cloud's Chevron/Handy Panty #65/University Mart Site Underground Injection Control permit application received March 27, 2014.

Ownership of the proposed injection wells is Crawford Environmental Services, Inc., 15 Church Ave, SW, Roanoke, VA 24011. The permit (UIC SCHE03020184M) is for the construction of six (6) injection wells for a corrective action system at the Cloud's Chevron/Handy Panty #65/University Mart Site. The intent of the injection wells is to inject surfactant,hydrogen peroxide, PetroBac and NutriMax into the subsurface to remediate contaminated groundwater as described in the cleanup plan dated March 20, 2014. The final permit for the underground injection proposal has been prepared based on staff review and the application of the Pollution Control Act of South Carolina and the Underground Injection Control Regulations of South Carolina.

Conditions of the permit issuance include the submittal of well records for all injection wells installed and the inspection of well construction by the Department prior to injection.



Catherine B. Templeton, Director Promoting and protecting the health of the public and the environment

April 11, 2014

(BOW-GWPROT-CAW) Mr. Charles F. Crawford Crawford Environmental Services, Inc. 15 Chruch Ave., SW Roanoke, VA 24011

Re:

Underground Injection Control Permit #SCHE03020184 Cloud's Chevron/Handy Panty #65/ University Mart Site

Richland County

Dear Mr. Crawford:

Enclosed is a Permit to Operate fifty-eight (58) Class VA-I (Aquifer Remediation) injection wells at the Cloud's Chevron/Handy Panty #65/ University Mart Site, Richland County, SC.

South Carolina Board of Health and Environmental Control Guide to Board Review Pursuant to S.C. Code Ann. § 44-1-60 Effective April 1, 2013

The decision of the South Carolina Department of Health and Environmental Control (Department) becomes the final agency decision fifteen (15) calendar days after notice of the decision has been mailed to the applicant, permittee, licensee and affected persons who have requested in writing to be notified, unless a written request for final review accompanied by a filing fee in the amount of \$100 is filed with Department by the applicant, permittee, licensee or affected person.

Applicants, permittees, licensees, and affected parties are encouraged to engage in mediation during the final review process.

If the Board declines in writing to schedule a final review conference, the Department's decision becomes the final agency decision and an applicant, permittee, licensee, or affected person may request a contested case hearing before the Administrative Law Court within thirty (30) calendar days after notice is mailed that the Board declined to hold a final review conference.

I. Filing of Request for Final Review

- A written Request for Final Review (RFR)and the required filing fee of one hundred dollars (\$100) must be received by Clerk of the Board within fifteen (15)calendar days after notice of the staff decision has been mailed to the applicant, permittee, licensee, or affected persons. If the 15th day occurs on a weekend or State holiday, the RFR must be received by the Clerk on the next working day. RFRs will not be accepted after 5:00 p.m.
- 2. RFRs shall be in writing and should include, at a minimum, the following information:
 - The grounds for amending, modifying, or rescinding the staff decision;
 - a statement of any significant issues or factors the Board should consider in deciding how to handle the matter;
 - the relief requested; and
 - a copy of the decision for which review is requested.

3. RFRs should be filed in person or by mail at the following address:

South Carolina Board of Health and Environmental Control

Attention: Clerk of the Board

2600 Bull Street

Columbia, South Carolina 29201

Alternatively, RFR's may be filed with the Clerk by facsimile (803-898-3393) or by electronic mail (boardclerk@dhec.sc.gov).

- 4. The filing fee maybe paid by cash, certified check or credit card. If a RFR is filed by facsimile or electronic mail, the filing fee may be mailed to the Clerk of the Board and the envelope must be postmarked within the time allowed for filing a RFR.
- 5. If there is any perceived discrepancy in compliance with this RFR filing procedure, the Clerk should consult with the Chairman or, if the Chairman is unavailable, the Vice-Chairman. The Chairman or the Vice-Chairman will determine whether the RFR is timely and properly filed and direct the Clerk to (1) process the RFR for consideration by the Board or (2) return the RFR and filing fee to the requestor with a cover letter explaining why the RFR was not timely or properly filed. Processing an RFR for consideration by the Board shall not be interpreted as a waiver of any claim or defense by the agency in subsequent proceedings concerning the RFR.
- 6. If the RFR will be processed for Board consideration, the Clerk will send an Acknowledgement of RFR to the Requestor and the applicant, permittee, or licensee, if other than the Requestor.
- 7. The Clerk will email the RFR to all Board members for review, and all Board members will confirm receipt of the RFR to the Clerk by email. If a Board member does not confirm receipt of the RFR within twenty-four (24) hour period, the Clerk will contact the Board member and confirm receipt. If a Board member believes the RFR should be considered by the RFR Committee, he or she will respond to the Clerk's email within forty-eight (48) hours and will request further review. If no Board member requests further review of the RFR within the forty-eight (48) hour period, the Clerk will send a letter by certified mail to the Requestor, with copy by regular mail to the applicant, permittee, or licensee, if not the Requestor, stating the Board will not hold a Final Review Conference. A copy of the Notice of Appeal Procedure will be included with the letter.

NOTE: If the time periods described above end on a weekend or State holiday, the time is automatically extended to 5:00 p.m. on the next business day.

8. If the RFR is to be considered by the RFR Committee, the Clerk will forward a copy of the RFR to Department staff and Office of General Counsel. A Department response to the RFR should be provided by Department staff to the Clerk within eight (8) working days after the RFR is forwarded.

II. Final Review Conference Scheduling

- 1. If a Conference will be held, the Clerk will send a letter by certified mail to the Requestor, with copy by regular mail to the applicant, permittee, or licensee, if not the Requestor, informing the Requestor of the determination.
- 2. The Clerk will request Department staff provide the Administrative Record.
- 3. The Clerk will send Notice of Final Review Conference to the parties at least ten (10) days before the Conference. The Conference will be publicly noticed and should:
 - include the place, date and time of the Conference;
 - state the presentation times allowed in the Conference;
 - state evidence may be presented at the Conference;
 - if the conference will be held by committee, include a copy of the Chairman's order appointing the committee; and
 - inform the Requestor of his or her right to request a transcript of the proceedings of the Conference prepared at Requestor's expense.
- 4. If a party requests a transcript of the proceedings of the Conference and agrees to pay all related costs in writing, including costs for the transcript, the Clerk will schedule a court reporter for the Conference.

III. Final Review Conference and Decision

- 1. The order of presentation in the Conference will, subject to the presiding officer's discretion, be as follows:
 - Department staff will provide an overview of the staff decision and the applicable law to include [10 minutes]:
 - Type of decision (permit, enforcement, etc.) and description of the program.
 - Parties
 - Description of facility/site
 - Applicable statutes and regulations
 - Decision and materials relied upon in the administrative record to support the staff decision.
 - Requestor(s) will state the reasons for protesting the staff decision and may provide evidence to support amending, modifying, or rescinding the staff decision. [15 minutes] NOTE: The burden of proof is on the Requestor(s)
 - Rebuttal by Department staff[15 minutes]
 - Rebuttal by Requestor(s)[10 minutes]

Note: Times noted in brackets are for information only and are superseded by times stated in the Notice of Final Review Conference or by the presiding officer.

- 2. Parties may present evidence during the conference; however, the rules of evidence do not apply.
- 3. At any time during the conference, the officers conducting the conference may request additional information and may question the Requestor, the staff, and anyone else providing information at the conference.
- 4. The presiding officer, in his or her sole discretion, may allow additional time for presentations and may impose time limits on the Conference.
- 5. All Conferences are open to the public.
- 6. The officers may deliberate in closed session.
- 7. The officers may announce the decision at conclusion of the Conference or it may be reserved for consideration.
- 8. The Clerk will mail the written final agency decision (FAD) to parties within 30 days after the Conference. The written decision must explain the basis for the decision and inform the parties of their right to request a contested case hearing before the Administrative Law Court. The FAD will be sent by certified mail, return receipt requested.
- 9. Communications may also be sent by electronic mail, in addition to the forms stated herein, when electronic mail addresses are provided to the Clerk.

The above information is provided as a courtesy; parties are responsible for complying with all applicable legal requirements.

If you have any questions, please call Christopher Wargo at (803) 898-3799.

Sincerely,

Christopher Wargo, Hydrogeologist Groundwater Protection Section

Bureau of Water



Catherine B. Templeton, Director Promoting and protecting the health of the public and the environment

WATER MONITORING ASSESSMENT & PROTECTION DIVISION

Injection Well Operating Approval

for

Class II, III, and V.A. Injection Well(s)

Permit #SCHE03020184

Date of Issue: April 11, 2014

In accordance with R.61-72 this permit will become final unless it is appealed within fifteen (15) days of the issuance date.

In accordance with the provisions of Title 48, Chapter 1, South Carolina Code of Laws, 1976, as amended, and pursuant to receiving a Permit to Operate fifty-eight (58) Class VA-I (Aquifer Remediation) injection wells, authorization is granted to Crawford Environmental Services, Inc. to operate fifty-eight (58) Class VA-I (Aquifer Remediation) injection wells located at the Cloud's Chevron/Handy Panty #65/ University Mart Site, Richland County, SC, and are subject to the attached provisos noted for the operator.

The Class VA-I injection wells are one (1) inches in diameter and approximately thirty-five to forty-five (35-45) feet deep

Pursuant to Title 48, Chapter 1, South Carolina Code of Laws, 1976, as amended, this authorization may be rescinded if these injection wells should, at any time, contaminate, pollute, or otherwise adversely affect other water in the vicinity or for any other conditions contained in R61-87, Title 48, Chapter 1, South Carolina Code of Laws, 1976, as amended.

Expires: April 11, 2019

Charles Gorman, Director

Groundwater Protection Section

Bureau of Water

Date April 11, 2014

Provisions to the Injection Well Operating Approval for
Underground Injection Well Permit #SCHE03020184
Cloud's Chevron/Handy Panty #65/ University Mart
Richland County, S.C.
April 11, 2014

- 1) Construction of new or abandonment of existing wells must be reported to the Department within thirty (30) days of completion.
- Only ambient air, hydrogen peroxide, PetroBac (microbes) and NutriMax (nutrient mix) as described in the corrective action plan may be injected into the subsurface at the fifty-eight (58) Class VA-I (Aquifer Remediation) injection wells. Any changes in the system operation other than as presented in the UIC Permit Application must be reported to the Department prior to implementation.

CRAWFORD ENVIRONMENTAL SERVICES

May 16, 2014



Mr. John Bryant
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201



RE: Initial Monitoring Report

Handy Pantry #65/University Mart & Cloud's Chevron Intersection of Taylor Street and Two Notch Road Columbia, South Carolina

UST Permit # 07584 / 07777 / 12352

Dear Mr. Bryant:

Enclosed please find one copy of the Initial Monitoring Report (IMR) report prepared by Crawford Environmental Services, Inc. (CES) for the referenced site. Should you have any questions regarding the enclosed material, or if additional information is required, please feel free to contact Charlie Crawford or myself at 540.343.6256.

Best Regards,

Daniel Fisher
Division Manager

CRAWFORD ENVIRONMENTAL SERVICES

Initial Monitoring Report

Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352

May 16, 2014

INITIAL MONITORING REPORT

Handy Pantry #65/University Mart & Cloud's Chevron Intersection of Taylor Street and Two Notch Road Columbia, South Carolina UST Permit # 07584 / 07777 / 12352

Submitted To:

South Carolina Department of Health and Environmental Control
Underground Storage Tank Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201-1708

Submitted By:

Crawford Environmental Services
15 Church Avenue, SW
Roanoke, Virginia 24011
SCDHEC Site Rehabilitation Contractor Certification #: UCC-0388

May 16, 2014 CES Job Number: 7.0547

Daniel J. Fisher Division Manager

B. Thomas Houghton

Professional Geologist,
SC Projector No. 32

SC Registration



1.0 Project Information	
1.1 Introduction	
1.2 Facility Information	3
1.2.1 Site Address	
1.2.2 Owner Operator Information	
1.2.3 Contractor Information	
1.2.4 Laboratory Information	
1.3 Site Description	
2.0 Assessment Activities	
2.1 Water Sample Collection	
2.1.1 Groundwater Sampling	
2.1.2 Surface Water Sampling	5
3.0 Summary	6
4.0 Limitations	
Tables	
Table 1: Groundwater Elevation Data	

Table 2: Groundwater Analytical Data Table 3: Site Specific Target Levels

Figures

Figure 1: Topographic Map Figure 2: Site Facility Base Map

Figure 3: Concentrations of Concern Map Figure 4: Groundwater Elevation Map

Appendices

Appendix A – Photo-Documentation

Appendix B – Purge Water Disposal Manifest

Appendix C - Field Notes

Appendix D – Laboratory Data Reports and Chain of Custodies Appendix E – QAPP Addendum Contractor Checklist



1.0 Project Information

1.1 Introduction

Crawford Environmental Services Inc., (CES) has completed an Initial Monitoring Report (IMR) for the Handy Pantry #65/University Mart and Cloud's Chevron properties. This report describes assessment activities conducted at the site in general accordance with the scope of work as defined in the QAPP Addendum Approval – dated March 20, 2014.

1.2 Facility Information:

1.2.1 Site Address

Handy Pantry #65 / University Mart / Clouds Chevron 2367 Taylor Street Columbia, South Carolina

1.2.2 Property Owner Information

Mr. Mahesh Patel 2367 Taylor Street Columbia, South Carolina

Mr. Andrew Diggins 1600 Block Two Notch Road Columbia, South Carolina

1.2.3 Contractor Information

Crawford Environmental Services 15 Church Avenue, SW Roanoke, Virginia 24011 1 (540) 343-6256 Contractor Number: UCC-0388

1.2.4 Laboratory Information

Access Analytical, Inc. (AA) 7478 Carlisle Street Irmo, SC 29063 1 (803) 781-4243 SC Certification: 32575001

Analytical Environmental Services Inc. (AES) 3785 Presidential Pkwy.
Atlanta, GA 30340
1 (770) 457-8177

SC Certification: 98016003



1.3 Site Description

The subject property is located in a primarily commercial area of Columbia, South Carolina (Figure 1). The subject sites, operating as Handy Pantry #65/University Mart and former Cloud's Chevron, is bordered by light commercial properties in all directions. A site plan depicting pertinent features of the subject property is provided as Figure 2. Current site conditions are depicted in the photo-documentation provided as Attachment A.

2.0 Assessment Activities

2.1 Water Sample Collection

A comprehensive groundwater sampling event, including; recording equilibrated static water levels, product thicknesses, and the collection of chemical samples was completed by CES personnel on April 1, 2, and 3, 2014. CES personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase product measurements. Groundwater samples were collected from the shallow wells utilizing disposable polyethylene bailers. Groundwater elevation data is presented in Table 1.

Shallow monitoring wells were purged three to five well volumes, via pump or bailer or till dry before sampling. Bailers were lowered slowly to the top of the water column (after purging in some cases) allowed to fill one volume, then removed. Disposal Manifest for the purge water generated during the sampling event are included as Appendix B.

After collection, groundwater was transferred to the appropriate sampling containers and was then placed in coolers, maintaining 4°C, and delivered to AA. AA then transferred the samples to AES via FEDEX for laboratory analysis. Temperature, pH, specific conductance and dissolved oxygen readings were recorded during sampling. Groundwater chemical samples were submitted to Access Analytical, Inc., (AA) {SC Certification: 98016} for analysis.

2.1.1 Groundwater Sampling

Equilibrated static water levels and free-product thicknesses were recorded for monitoring MW-2, MW-3, MW-4, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-22, MW-23, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31, MW-32, MW-33, MW-34, MW-35, MW-36, MW-37, MW-38, MW-39, MW-40, MW-41, MW-42, MW-43, MW-44, MW-45, MW-46, MW-48, MW-51, MW-53, MW-54, MW-55, MW-56, MW-59, MW-62, MW-63, MW-67, MW-70, MW-5AR, PW-1R.



DW-1, DW-2, DW-3, DW-4, DW-5, DW-6, DW-7, AND DW-9 by CES personnel on April 1, 2, and 3, 2014.

Groundwater samples were unable to be collected from MW-1 and MW-5 due to an insufficient water column.

Groundwater samples were unable to be collected from MW-15 due to the presence of approximately 0.60-feet of free-phase petroleum.

Monitoring wells MW-49, MW-50, MW-58, MW-60, MW-65, and DW-5 were unable to be sampled due to being inaccessible, paved over, or abandoned.

Field notes from the sampling event are included as Appendix C.

Groundwater Samples were submitted for the following chemical analyses; Benzene, Toluene, Ethylbenzene, Xylenes (BTEX), Methy tert-butyl ether (MTBE), tert-Amyl Alcohol (TAA), tert-Amyl methyl ether (TAA), and tert-Butyl Alcohol (TBA) via standard method 8260. Laboratory Reports and Chain of Custody Documentation is included as Appendix D.

2.1.2 Surface Water Sampling

As part of IMR activities, CES collected a surface water sample from location SW-1 on April 2, 2014.

Table 2 presents the laboratory data for the submitted groundwater samples collected as part of this assessment. The Concentrations of Concern Map is included as Figure 3. A Groundwater Elevation Map is included as Figure 4.



3.0 Summary

During the assessment activities performed at the subject property, CES conducted a comprehensive groundwater monitoring event. The qualitative and quantitative data collected from recent assessment activities indicates the following regarding current site conditions:

- 1. Shallow groundwater flow at the above referenced facility was mapped with a southwestern component as inferred from the relative groundwater elevations and calculated gradients on April 1, and 2, 2014.
- 2. Free phase petroleum was observed in MW-15 (0.60-feet) during the April 2014 sampling event.
- 3. Groundwater samples collected from MW-2, MW-3, MW-9, MW-10, MW-12, MW-17, MW-18, MW-19, MW-20, MW-22, MW-23, MW-25, MW-31, MW-33, MW-35, MW-37, MW-54, MW-5AR, PW-1R, and DW-3 exhibited concentrations in excess of the Site Specific Target Levels (SSTLs). The following SSTL monitoring wells were unable to be sampled; MW-5 (Dry), MW-15 (Free Product), MW-58 (Abandoned) and MW-65 (Unable to Locate)
- 4. The current concentration reduction value has been calculated to be 53,29%.
- 5. The surface water sample collected from SW-1 exceeded the Site Specific Target Levels.

4.0 Limitations

This report is based upon a specific scope of work requested by SCDHEC. This report is intended only for the use of CES's client and anyone else specifically listed on this report. Some data contained within this report was previously collected by other consultants and is assumed to be correct. CES will not and cannot be liable for the unauthorized release by any third party. Other than as contained in this paragraph, CES makes no expressed or implied warranty as to the contents of this report.



APPENDIX A

Photo-Documentation





Clouds Chevron # 1

View of Remedial Shed #1.



Clouds Chevron # 2

View of Remedial Shed #3.



Clouds Chevron #3

View of Remedial Shed #3.



Clouds Chevron #4

View of remedial trenching proximal to the southeast intersection of Two Notch Road and Forest Drive



Clouds Chevron #5

View of remedial trenching proximal to Shed #3.



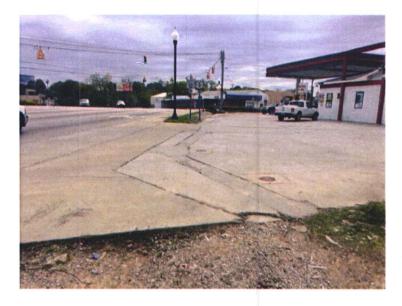
Clouds Chevron #6

View of remedial trenching proximal to Lyons Street.



Clouds Chevron #7

View of remedial trenching proximal to Shed #3.



Clouds Chevron #8

View of remedial trenching proximal to the northwest corner of Two Notch Road and Forest Drive.



Clouds Chevron #9

View of remedial trenching proximal to Shed #3.



Clouds Chevron #10

View of remedial trenching at 2367 Taylor Street (University Mart).

APPENDIX B

Disposal Manifests



		2.2.25		The Street or				O Emilia	ncy Respons	a Shana	A Waite	madelas Ale	inhay "		F
ſL	WAST	iazardous e manifest		or ID Number	والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع وا		1 00				* 17600	725	4-8-	1 1	
	50	ors Name and N Di ⁴ EC		,			!	Generator Postv	Site Addres	a (f. different	than mailing add currently i Suite	(1) 6/07	1 56-	Scol	まり
	€.6 €.0	ve Bulli Iumbia, S	e e	i. Isaa saa	•					voeth i		. 408	*U-L		
	Generatoris 6. Transpo	rter 1 Company	Name	36-632			1	918	MAIN	<u> </u>	U.S. EPA II	2 Number		,	
11	Pe	etru-Te	ich En	virunm	ental, LLC						U.S. EPA II	Mumbaa		·	
	/, Transpo	rter 2 Company	NATIO								U.G. CFA II	, INVIOUS			,
	8. Deelgna	ted Facility Name	e and Site Addre	VLS	Recovery S. Much	Servic	45,1	IC			U.S. EPA II				1
		حيا مد	م میں	305	S. Mush	SHALLA					SC	ROO	076.	246	3
-				it.	din, sc	4 100 A	!	1	10, Con	tainere	11, Total	12. Unit	<u> </u>	<u> </u>	
		Vaste Shipping N		f' d					No.	Туре	Quentity	Wt./Vol.		, <u> </u>	<u> </u>
HATON		Non Ha Prosil	2/Nur 2/Nur	Regula 374	ited we Reeks	Store U	19116		1	FUNC Tunk	55	911			
	2.				cloud?	5 Chever 1584/07	3278) est	1	PUC tink	105	gal			
	3.	· · · · · · · · · · · · · · · · · · ·			,		1-						The state of the s		
		U.													
Iľ	13. Speci		ACCOR LOS ALL	teral Morration	The state of the state of	a. Factorial	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	or in early a					,		
1	2 ,,1	-10			13 13					grinasii T					
	14. GENE	RATOR'S/OFFE	NOW'S CENTR	GATION: I hamby	declary that the co proper condition for	nhante of this con	grament s	ire fully and	accurately di	storbed abov	e by the proper	hipping nia	ne, and are di	selled, pr	ckaged,
V	merke Garage	d and lebeled/pla architeror's Print	corded, and are ad Typed Name		And the same of th	The second second	Ski	meture	ational and n	mevoo lendu	mercu regulatu			inth Di	y Your
早	St. Interne	tional Shipment			Treva			<u> </u>			 			118	114
	Transports	or Signature (for	exports only):	mport to U.S.	Nagrasia in San Marka	ال ا	port from	U.Ş.		ontry/exit: Iving U.S.:		,			
PORTER	16. Transporte	oner Admonied ir 1 Printed/Type	gment of Receip of Name	t of Materials		arang garaga ing ba	. 8		4 -					nth D	
	Trev	r 2 Printed/Type	· SING	<u>k</u>				1200 Palum	1			<u></u>		HIT D	
Ē	•	. 3	w (wild)					- - - - -					<u>: </u>		
	17a. Discre 17a. Discr	pency spency Indication	Space	Quantity		Этура		C	Regitalue		Pariel P	lejection		□ Puli Pi	ejection
	17h 48a-	um Fundity (or (harden la la la la la la la la la la la la la	r v		******		Mari	et Reference	Number:	U.S. EPA I	D Nambii			
FACELTY	, e yt. Pilite ll	me : samy (Vi V						1.			J				
FD FA	Facility's 17c. Signs	Phone: Hure of Alternate	Facility (or Gen	erator)					4	<u> </u>	ــــــــــــــــــــــــــــــــــــــ	*****	NA.	d ninc	y Year
E.					and the second second	Sel A Mile and the		the training		a vi have		Free Co	11 cg v 31 Vc	Section Section	
														EL N. J.	
	18. Design	mad Name			ceipt of materials co	wered by the ma		richte	to him 17e					omen D	y Year
¥		- 2	Jan'l	1 /-	<u> </u>		1/				fin	<u> </u>		4 8	1/2
					t el Tarrella	ESIGNATE	D FAC	ILITY'S	COPY						
					produkty et di 🚍	and the second s	3		4						

APPENDIX 6

Field Notes

GROUNDWATER SAMPLING LOG

SITE Clouds Chevron	SITE LOCATION: Taylors Street & Two Notch Road, Columbia, SC					
WELLING	BAMPLE D Not Gampley	DATE 4/2/14				

WELL	······································				PU	IRGIN	DATA						'	
DIAMETE	R (Inches). LUME PURO		/eli Depth (fe)LUMB = 71	e	7	DEATH	CREEN INTE	A	STATIC et TOWAT	ER (fe	et):	P	urge Pum R Bailer:	PTYPE
			a (<u> </u>		- 51A1	C DEPTH TO	WATER!	X MET	CAPAC	YY gallons	/foot	•	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (galions)	TEMP (^Q C)	۸	pH (su)	٨	Cond. (µS)	٨	DO (mg/L)	A	TURB IDITY (NTU)	Α	COLOR	ODOR
	· · · · · · · · · · · · · · · · · · ·													
										<u> </u>				
													-	-
							(2)							
	-	ıj.												
				-										
										7. 4				-
		1				, ,		agencing of	200	-				

		MPLING DA	11/4	_	•			
WPLED BY (PRINT)	SAMPLER(S) SIG	SNATURE(S);		SAMPLING DATE	SAMPLING	TIME:		
IMP OR TUBING PTH IN WELL (fext): IPLICATE COLLECTED: Y N	TUBING MATERIAL CODE		4	PIECO-FILTERED N FILTE				
SAMPLE CONTAINER SPECIFICATION	EARP	LE PREBERVATIO		NTENDED AMALYSIS AND/OR METHOD	BAMPLING EQUIPMENT CODE	PUMP FLOW RATE		
APLE CONTAINER MATERIA VOLUME	PRESERVATIVE USED	TOTAL YOU ADDED IN MELD (mL)	FINAL pH			(mtinin)		
Not	Samoled.	Dres				·		
TERIAL CODES: AC = Amber Glase; CO	= Clear Glass; PB =	Polyethylene:	P = Polyprop = Bladder Pu		T = Tehon; O = Q Submersible Pump	ther (Specify		

STABILIZATION ORITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ±5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

(4.)

(TANKE	Clouds Ch						OCATION T	aylors .	Street & T	wo No	ch Ros	d. Cal	umbia S	iC.
WELLNO	· The				SAN		1w-2				DAY			
			1			URGING				· ······		- Y		
WELL DIAMETE	R (inches):	الحا	M Weil Cepth (· 3	0	WELL S	CREEN INTE	.		C DEPT	1 en):2{, }	A PL	JRGE PUN	P TYPE
MELLYC	olumb purc	E: TWE	L VOLUME :	TOTAL W	ELL DEPT	H - STAT	C DEPTH TO	WATER	X WELL	CAPAC	gallon		REALER:	
TIME	VOLUME PURGED	VQLUM VQLUM CUMU	E TEMP	1 ^	DH (NA)		COND	T .	00	16	TURB	A.	-1,42	gallen
247	(gallons)	(dallen	24.6		6.6	-	151		(mg/L)		(NTU)		COLOR	ODO
					0.0		121	一	14	+	48		cic	Stro
		-												
				-						-	 -			
										土				
				+		+								
-											_ 1			
									·		-			
	4					1								
														-
			t): 0.78* = 0.0	ليقما		5" > 0.0s;				ليا				
MPOR	TUEING	olack-		TO SAN	ER(B) BIG	MPLING NATURE(S)	DATA		SAMPLING B/2//I	4		Jay		
PLICATI	WELL (feet): E COLLECTE	5 19) <u>N</u>		BOI	151			Filtration Eq	ipment'	ype:		PILTERS	IZE:
BAMPI	le contain	er specif	ICATION			ê Presen	/ATION		NTEND ANALY AND/O METHO	kio R	BQUI	PLING PMENT DOR	P.	MPLE UMP LOW ATE
CODE	CONTAINER B	LCODE	AOTAME	PRESE	rvatne seo	TOTAL VI ADDED IN F	ELD FIN	AL H					(6)	rain)
	3	CG	40ml	Hc					82601		P		<u> </u>	-
									**************************************		,			
\dashv													1	
MARKS		1				· · · · · · · · · · · · · · · · · · ·		<u></u>			ئ <u>ىمى بو</u> ت			•
TBRIAL I	CODES: AC	- Amber 0	1888) DO = (Clear Glas	- BE -	Polycthylena		1. m/stanta - 2 -						
	EQUIPMENT		APP = After			B = Bailer;	SP = Blad				T = Tefin Submersi		Other (S	pecity)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ±5% Dissolved Oxygen: ±0 2 mg/L or ± 10% Turbidity: ± 10 NTU or ± 10%

	Clouds Che	evron .					HTE .	Paudama	Ol					_
NAME: YELLNO			·		SAMI		MW- 2		Street & Tw	o Mor	DATE	4//	umble, S	C
													717	
WELL		n Tota	Well Depth (fe	att A			CREEN INT	TO AL	T					
DIAMETE		ᄉ		a a	1	DEPTH	19 feet	10 to 10		ER (fe	当にして	0 0	urge Pum Realer:	PTYPE
METF AC	arome Pung	a: J Marr	VOLUME = (1	OTALWEL 29		et - STAT	1,4 D	OWATER feet	X WELL C	APAC	fy gallens		1,22	gallons
TIME	VOLUME PURGED	CUMUL VOLUME PURGEO	(°C)	1	рН (SU)		COND.	٨	(mb/r)	\ \ \	TURB	٨	COLOR	ODOR
013	(enoileg)	(gallons)	125.7		6.0	-	27 2	-	0.8		(NTU) 19	-	ÀI -	
			1-7		<u> </u>		41.3	1	018		1/9		CIF	Stron
														-
• · · · · · · · · · · · · · · · · · · ·		 						1						
	-		+	 						_		ļ		
		"						+			,	-		-
					*					,				
											٠,			
-			-		· · · · · · · · · · · · · · · · · · ·	<u> </u>								
		1.											. "	
					·-									
				·				i				-		,
									, , , , , ,	,				
rell ca	PAČITY (Gali	ons Per Poot	0.75" = 0.02	. 1°•01	D4; 12!	9" = 0.08;	2" = 0.16;	8 - 03	1; 4"=0.65;	· ·	1.02;	P = 14	7, 12**	5.06
WELL OA	PACITY (Gall	ans Per Post	0.75" = 0.02	. 1° • 91	· ,			8* + 0.3	7; 4" = 0.65;		1.02;	P = 1/	7. 12"	5.06
	PAGITY (Galid	ans Per Poor	0.75" = 0.02		SAI	VIPLIN	B DATA	8* • 0.3						
SAMPLEO True	DBY(PRINT)		9.75° = 0.02	SAMPLE	SAI		B DATA	* • 0.3	1; 4"-0.65; SAMPLING:			SAMP	ING TIME:	*****
SAMPLEC Truck PUMP OR DEPTH IN	DEY (PRINT) CO CO TUBING WELL (Next):	dr.	0.75 - 0.02		SAI R(S) SIGN	VIPLIN	B DATA	8" * 0.3	SAMPLINGE	MTE:		SAMP	ing time:	·
SAMPLEC Truck PUMP OR DEPTH IN	BY (PRINT)	dr.	9.78 - 0.02	SAMPLE	SAI R(S) SIGN	WPLING VATURE(S)	B DATA	7 - 0.3	SAMPLINGE	MTE:		SAMP	ING TIME:	·
SAMPLED Truck PUMP OR DEPTH IN DUPLICAT	DEY (PRINT) CO CO TUBING WELL (Next):	uk o O		SAMBLE TUBING MATERIA	SAI R(S) SIGN L CODE:	WPLING VATURE(S)	DATA	8 • 0.5	SAMPLINGE L- /2// FIELD-FILTE Filtration Equi	MTE: L/ TED: pment D	Type:	SAMP	ING TIME:	SIZE:
SAMPLED Track PUMP OR SEPTH IN SUPLICAT	TUBING WELL (feet): FE CONTAIN CONTAINER	uk o O		SAMBLE TUBING MATERIA	SAI RESISION LCQDE: C D	MPLING VATURE(8)	B DATA EVATION FOL RELD	87 = 0.5	SAMPLINGE L- 12/ FIELD-FILTE Filtration Equi	MTE: L/ TED: pment D	Type:	SAMP	ING TIME:	SIZE:
SAMPLEO TO AND OR SAMPLE SAMPLE SAMPLE SAMPLE	TOBING WELL (Net): PE CONTAIN	OF CO	GATTON	SAMBLES TUBING MATERIA 10 10 10 10 10 10 10 10 10 10 10 10 10	SAI RESISION LCGDE LCGDE LAMPL	MPLING NATURE(S)	B DATA EVATION FOL RELD	FINAL	SAMPLINGE L- /2// FIELD-FILTE Filtration Equi	MATE: L/ TED: pmert	Type:	SAMP	ING TIME:	SIZE: UMP LOW LATE Wintn)
SAMPLEO TO AND OR SAMPLE SAMPLE SAMPLE SAMPLE	TUBING WELL (feet): FE CONTAIN CONTAINER	D. CO	CATION	SAMBLES TUBING MATERIA 1040	SAI RESISION LCGDE LCGDE LAMPL	MPLING VATURE(S) S S PRESENT TOTAL ADDED IN	B DATA EVATION FOL RELD	FINAL	SAMPLINGE L- 12/ FIELD-FILTE FIITMON Equi NTENDE ANALYE ANDOR METHOD	MATE:	Type:	SAMP PLINI PAGE ODB	LING TIME:	SIZE: UMP LOW LATE Wintn)
SAMPLEO TO AND OR SEPTH SI SUPLICATE SAMPLE SAMPLE	TUBING WELL (feet): FE CONTAIN CONTAINER	D. CO	CATION	SAMBLES TUBING MATERIA 1040	SAI RESISION LCGDE LCGDE LAMPL	MPLING VATURE(S) S S PRESENT TOTAL ADDED IN	B DATA EVATION FOL RELD	FINAL	SAMPLINGE L- 12/ FIELD-FILTE FIITMON Equi NTENDE ANALYE ANDOR METHOD	MATE:	Type:	SAMP PLINI PAGE ODB	LING TIME:	SIZE: UMP LOW LATE Wintn)
SAMPLEO TO AND OR SAMPLE SAMPLE SAMPLE SAMPLE	TUBING WELL (feet): FE CONTAIN CONTAINER	D. CO	CATION	SAMBLES TUBING MATERIA 1040	SAI RESISION LCGDE LCGDE LAMPL	MPLING VATURE(S) S S PRESENT TOTAL ADDED IN	B DATA EVATION FOL RELD	FINAL	SAMPLINGE L- 12/ FIELD-FILTE FIITMON Equi NTENDE ANALYE ANDOR METHOD	MATE:	Type:	SAMP PLINI PAGE ODB	LING TIME:	SIZE: UMP LOW LATE Wintn)
SAMPLED JUPICAT SAMPLE SAMPLE GODE	PEY (PRINT) CONTAINER	D. CO	CATION	SAMBLES TUBING MATERIA 1040	SAI RESISION LCGDE LCGDE LAMPL	MPLING VATURE(S) S S PRESENT TOTAL ADDED IN	B DATA EVATION FOL RELD	FINAL	SAMPLINGE L- 12/ FIELD-FILTE FIITMON Equi NTENDE ANALYE ANDOR METHOD	MATE:	Type:	SAMP PLINI PAGE ODB	LING TIME:	SIZE: UMP LOW LATE Wintn)
SAMPLED J-L/A	PEY (PRINT) CONTAINER	D. CO	CATION	SAMBLES TUBING MATERIA 1040	SAI RESISION LCGDE LCGDE LAMPL	MPLING VATURE(S) S S PRESENT TOTAL ADDED IN	B DATA EVATION FOL RELD	FINAL	SAMPLINGE L- 12/ FIELD-FILTE FIITMON Equi NTENDE ANALYE ANDOR METHOD	MATE:	Type:	SAMP PLINI PAGE ODB	LING TIME:	SIZE: UMP LOW LATE Wintn)
SAMPLE DEPTH IN DUPLICAT SAMPLE D GODE	TUBING WELL (Net): PE COLLECTE CONTAIN CONTAINER S	D. CO	CATION VOLUME 4 Denl	SAMBLES TUBING MATERIA 1040	SAI RESISION LCODE C 10	MPLING VATURE(S) S S PRESENT TOTAL ADDED IN	B DATA EVATION FOL RELD	FINAL	SAMPLINGE L) (2) FIELD-FILTE FIID BON EQUI NITENDE ANALYE AND/OR METHOD	MTE: L/ TED; pment	Type:	SAMP INTERPRETATION	LING TIME:	SIZE:

STABILIZATION CRITERIA

pH:±0.2 units Temperature: ±0.2 °C Specific Conductance: ±5% Dissolved Oxygen: ±0.2 mg/L or ±10% Turbidity: ≤10 NTU or ±10%

SITE	Clouds Che	vron	·		•		SITE								
MARKE.	1 、 10000000000000000000000000000000000			/ ////////////////////////////////////					yiors	Street & T	wo Not	Ch Ros	I, Col	umble, S	C,
WELLN	111 美華田	5			SAME	rle ID.	Mw	<u>/- 4</u>	 				4/	2/11	4
				•	PL	IRGIN	G DA	TA						' '	1
WELL	· · · · · · · · · · · · · · · · · · ·	Tota	Well Depth (fi	et) ng		WELL	SCREE	NINTER	MAL	STATE	C DEPTI	+	P	URGE PUN	P TYPE
	R (inches): «		VOLUME = (DTALWELL	ASPYE	DEPTI	11 2 DE	feet to	OATES	eet TOW/	TER (fe	en 21.3	10	R BAILER:	
			= (78		et- [11.3	1	fee			gallon	e/foot	-1.07	gallons
That	VOLUME	VOLUME			βН		T	OND	I	00	T	TURB			
TIME	PURGED (gallons)	PURGEC (gallons)	(°C)		(SU)	^		μS)	111	(mg/L)	1	(NTU)	A	COLOR	ODOR
1809		_	26.1	- 6	.X	-	IIZ	Ī		2.3	_	86		CIC	None
												100	1	<u> </u>	1/4 WAR
			-						1						
				-		ļ	<u> </u>								
	 	 		 -	-	 	+		<u> </u>	ļ	+-	 			
		· ·									1				
					,									, ,	
			,												
		L	, ,			<u> </u>	1			<u> </u>					
WELL CA	PACITY (Ges	ins Per Foot	• 0.78" = 0.03	2 1"=0.0	i; 12 0	5° = 0.06.	2" = 1	0.16; 4	= 0.3	7: 4"=0.6	5; 5°	1.02;	P = 14	17, 12" -	6.88
				΄, ****					1		•				
SAMO ET	BY (PRINT)	<u> </u>		Lemente	SAI	PLIN	<u>e</u> di	<u>ITA</u>		T					
		lack		SAMPLER	10,010	AIURE	2);			SAMPLING	III		SAMP	UNG TIME	
PUMP OR	TUBING WELL (feet):			TURNO				······	·,	FELDIFIC		YOU		FILTER	
	E COLLECTE	D: Y	6	MATERIAL	CODE	-	- 120	· · · · · · · · · · · · · · · · · · ·	*****	Filtration &	ulpmen	Type:			
							70			NTEN	Nin .	T		1 8	MPLE
GAM	LE CONTAIN	er specifi	CATION		SAMPL	e Prede	RVATH	DN.	;	ANALY	/818		IP MEN		LOW
	ومعمونات التالية						,			ANDA			ODE	1 1	ATE (Main)
SAMPLE D CODE	CONTAINER	MATERIA L CODE	AOTAME	PRESERVA		ADDED II	VOL N FIELD	FI	MI						
	1		Ha l				J		H	00/					
		Ce	40ml	子で					-	8260	13	1	3_		
								 	- -			├──			
							······································	1				 			
	· ·													_	
								,	-						
REMARKS	Į.								10.0						
MATERIAL	CODES. A	3 = Amber G	MS: 00 =	Clear Glass:	8P -	Polyethyl		PP = Pi	No pro-	ioro: 6 - 6	ilicone:	9 9		A	
	ROUPMENT		APP - Ater	Paristatic Pu	n D	O - Baile	r. E	P = Blac	ider Pu	mo ese	• Electri	T = Tef c Submer		Ø ≃ Other (steeny)
·····			RPPP = Revi	erse Flow Per	istallic P	ump;	SM = St	raw Met	hod (Tu	bing Gravity E	irain);	0=01	er (Sp	ecity)	

STABILIZATION CRITERIA

pH:±02 units Temperature:±0.2 °C Specific Conductance: ±5% Dissolved Oxygen:±0.2 mg/L or ±10% Turbidity:≤10 NTU or ±10%

SITE NAME:	Clouds Che	vron					SITE	Tarda			- 24-4				
WELLN	0.				Teim	PLE ID	OCATION	· 10ylo	is sin	SOI & IW	o Noi	DATE		lumble, S	C
		,	ļ		37011	rus (U	- 1		·····				7	12/14	·
					PL	JRGING	DAT	A							
WELL DIAMET	ER (inches):	J	VOLUME = (,	WELL S	CREEN IN	TERVAL	foat	STATIC TO WAT	ER (fe			urge pum R Bailer:	PTYPE
	Oranier Later	a	= (36	LUEP IA	81 - STATI 81 -	IC DEPTH		を取り)	(METT (APAC	galions	Most	8	gallons
TIME	VOLUME PURGED (gallens)	CUMUL VOLUME PURGED (gallens)	TEMP (°C)	[^ [(8U)	۸	CONE	· /		(mg/L)	^	TURB IDITY (NTU)	٨	COLOR	ODOR
							1								
	+	 		-											
	 	 		 -											
	1								┿						<u> </u>
				† 			1		_						
										· · · · · · · · · · · · · · · · · · ·					
	 														
			 											_	
	 	i ji		 		 		-	+						
,					·		-	-	+		,				
									1					-	
			1		, i				Tr			e			
WELLO	WACITY (Gallo	ins Per Foot)	0.70" = 0.0	Q.0 = "P = 0.0	4; 121	F" = 0.06,	Z* = 0.16	3" × (2.37;	4" = 0.65;	5× =	1.02; 4	*=14	7, 12"=(5.86
				,	SAL	MPLING	DAT					-		,	
	D BY (PRINT)	ll a	_		(S) \$1Gh	IATURE(8)			8	MPLING D	ATE	1	SAMP	ING TIME:	
	TOBING WELL (feet): TE COLLECTE	5 Y	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TUBING MATERIAL	_CODE:			<u> </u>	For	MARILTE Valion Equi	PMent	Y N Type:		FILTERS	SIZE:
SAM	PLE CONTAIN	er ephoifi	PATION		BAMPL	e Preser				ANALYSI ANALYSI AND/GR METHOL	\$	BOU	PLING PMEN ODE	T P	MPLE UMP LOW ATE I/min)
SAMPLE D CODE	CONTABLER S	MATERIA L'OODE	VOLUME	PRESERV. USEC	ATIVE	ADDED IN F	TELD	FINAL				-		, a	78110
المينا ومتراجعات							-		+-		-				
								1	1	·					
	1								1				· · · · · ·		
							$-\mathbf{L}$	1	L						
REMARKS	3.			7		1.1	Vot !	Sam	0/20	1			.		
MATERIA		a Amper G		lear Gurs;		olyethylen	e, PP	Polypro			one:	T = Tello	n; (e Other (S	inerit/a
SAMPLIN	g Equipment	CCDIE:	APP - Ater F RPPP = Reve	eristante Pu 130 Flow Pe	mp; nstalling Pr	B = Baller; ump;	P 4	Bladder P	ump:		inchie	Simmani	ble Pu	m p;	

STABILIZATION CRITERIA

pH: ± 0 2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

SITE C	louds Che	vron				TE	ITE	T 1	. 63 6					
NAME WELL NO					T				Street &	Two No	Ch Ros	d, Colu	mble, S	C.
***************************************			· · · · · · · · · · · · · · · · · · ·		8AM	PLE ID:	NW-	6				4/3	10	
,					P	URGING	DAT	Δ				٠	' '	
WELL		7 TOB	Well Liepth (fi	eet). 3		WELLS	CREEN	TERVAL	STA	TIC DEPT	H 00	, Pui	rge pun	D TVD
WILL VOI	(inches)		VOLUME = (DEPTH:	an teè	tto 20	teet TO	VATER (R	ا ،اسکورو	OR	BAILER:	-
			= (30	16	2	2.6	fe		LI CAPAC	eallon:	3/faat =	1.12	gallor
	VOLUME	COMUL			a.U		CON		T		TURB	ТТ	1110	-
TIME	PURGED (Qallons)	PURGE	(00)	^	(an)	^	(µ9)	~ + A	(wer	, ^	IDITY	1	COLOR	000
2849			24.1	-	67		131		1.7		49	 	<u> </u>	100
					4.0	1			1	+=	1-1-		Clc	mo
	1	15							1	-	1			-
														1
		 	-											
		ļ.,	+	 					-					
				1-1										
			 		222-						-	-		_
			1									-		_
														-
		-					, .							_
						(1			
	a garana , q			إ	w23**,**	الب نيا								
ell cap	ACITY (Gam	ons Per Foot	0.78"=0.0	1" ě (0.04; 1.2	6" = 0.06;	2" = 0.16	. 57 ± 0.	37; 4°=0	65, 5"	1.02, 1	r = 1 <i>47</i> ,	12°=	5.28
				-		1		, marija				1		<u></u>
1200 E35	Y (PRINT)		•		SA	MPLING	DAT	A				_		-
	er S	unk		SAME	RR(8) 81G	NATURE(S)		-	SAMPLIN	G DATE:	1	SAMPLIN	IS TIME	
MP OF I				TUBING			.	,	I FIELD FI	TERED	V	98	PILTER	alza.
	COLLECTE	D: Y	6	MATER	ALCODE			1	Filipation	equipment	Type.		- 141 -	
		-		·	-	*****		-	1 %					11.58
SAMPL	E CONTAIN	er ryrolfi	CATION	ľ	EANT	ra buranti	VATION		ANA	Yels		PLING PMINT		UMP
		1				the state of the s		. ,	ANI	HOD		COL		LATE
MPLE	CONTAINER	MATERIA	VOLUME	PRESE	RVATIVE SED	TOTAL V	JELD .	FINAL					- 12	Vmin
-	2	CG	40001	He		<u></u>		- Pris	826	A 1/2	ļ.,	,		
				-17					1000	<u> </u>		3	+-	-
7 (1	"'', "	 		+-	
													1	
_												· · · · · · · · · · · · · · · · · · ·		
MARKS:		L;	· · · · · · · · · · · · · · · · · · ·					,1						
								+				—		
iterial (CODES A	3 - Amber G	lass; CO - (ilaar Glas	8; P# =	Polyethylen	e; pp	- Polyprop	viene: #=	Silicone.	T = Tefs	מה מה	- Other (1	Transia.
arling (CUIPMENT	CODES:	APP = Atter	eristatic	Pump	B = Bailer,		Bladder Pu	mo: Eit	a Electric				· · · · ·

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ±5% Dissolved Oxygen: ±0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

NAME:	Clouds Ch	evron					SITE	nu Ta	viors	Stre	at & Tw	o Not	ch Ros	d. Col	lumbia, S	C
WELLN	10:				SAM	PLE ID. N							DATI			4
						1	-						<u></u>			<u></u>
WELL DIAMET	'ER (Irches):	٦ ا	al Well Depth (ຍ	0	DEPTH	CREEN	INTER	U .	et	STATIC TO WAT	DEPTH ER (16	23.0	22 6	URGE PUN R BAILER:	P TYPE
MELT A	OLUMB PURG	SE: TWE	VOLUME # (totalw 31	ELL DEPTH	1 = STAT	3.	TH TOV	VATER	X	WELL (CAPAC	gallore		1,12	gallons
TIME	VOLUME PURGED (gallons)	VOLUM PURGE	TEMP	1	pH (su)	1	CO	ND.	٨			٨	TURB	A	COLOR	ODOR
1131	(Resigned)	(gallons	23.1		6.3		10	4	+	\vdash	.6	_	(NTU)		er	DON
			į.						1	Ľ						1 301
**	-	+	;			-			-	ļ_					,	
							 			-		_				
7	-	┼	-													
		 				,			-	-			_			
									1							
·	 -	ļ														
				+		-			+	_			-			
	'.				1		r T			-		-	,			
will c	LPACITY (Gall	one Per Foo	0.75" = 0.0	2, 4"=	0.04, 1.2	5" = 0.08 ;	2° - Q	.16; 5	. = 03	7: 4	l" = 0.65;	\$* ±	1.02,	P = 14	7, 12"=	R AA
			ì	(************************************	***					*						
	DEY (PRINT)	· · · · · ·		SAMPL	ER(6) SIGI	MPLING NATURE(S)	DA V	IA_		SA	MPUNG E	ATE:		SAMP	ING TIME:	
PUMP OF	RTURING	lack	1	TUBING	m	1/1/					13/1	4			131	
DEPTH IN	WELL (feet).	10 Y		MATER	ALCODE:					Filtr	D-PILTER Mon Equi	bweur,	ype:	, .	PATER	BIZE.
				r 						-	NTENDE	6			10	RPLE
MAS	ple contain	ir sproip	IOATION		#AMPL	le presen	VATIO	N			ANALYS AND/OR ANTHOI		EQU	apling Ipmen Ode	7 9	LOW
Sample D code	CONTAINER S	MATERIA L GODE	AGTAME	PRESE	RVATNE SEO	TOTAL V ADDED IN (mL)	FIELD	FINA ph	L							Umin)
	2	CG	Homl	Hc		•		-		8	260B		13			
			9								-					
							-		# -				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	-															
EMARK					l.										1	
ATERIA	L CODES A	o = Amber (3 859; CG = (Clear Glas	9: P# -	Polyethyler	Ne:	P = Pal	(Dreen)	BPA.	8 = Sili	Marie .	· · ·		h - 6th	
AMPLIN	G EQUIPMENT		AFP = After	eristaltic	Pumo.	9 - Bailer,		= Ellado	er Pun	ID.	E2P = 1	lectric	T = Tello Submers	IDE PU	o e Other (5 mp:	specoy)
		-	RFPP = Rev	ING FICK	rensiditic P	ump;	n = Sira	w Metro	od (Tut	ing G	ravity Dra	in);	O = On	er (Spe	city	

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

SITE NAME	Clouds Che	vron					OCATION	Taylors	Street & Ty	vo Note	h Rose	i, Colu	mbla. S	C
WELLNO);	1			SAMP	ITE ID. W					DAY	_	3/14	
		the work on the			<u></u>			Z				1/,	11-1	
					PU	RGINO	DAT	Ą						
WELL	R (inches):	ا ا	Well Diepth (fe	` ೩೪		DEPTH.	CREEN IN	to 2 💢 t	eet TOWA	DEPTH TER (fee	1): 9,9	5 OR	RGE PUM BAILER:	
ANGLE YO	FOUR LAKE		* (28			1.95		t) × WELL	CAPACI 16	gallors	s/foot	1.29	gations
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP (°C)	A	рн (su)	Α	CONE (µS)). A	(mg/L)	۸	TURB IDITY (NTU)	۸	COLOR	ODOR
209	,	-	119,9		6.3	-	12	_	1.9	_	8		cir	none
													<u></u>	
						<u> </u>								
			 		~~~	ļ				<u> </u>		\sqcup	 ,	L
		}	+	 		<u> </u>			 	1				<u> </u>
		 		-		ļ			1	 -		-		
				 -		ļ.——			-	+-	<u> </u>	-	· · · · · · · · · · · · · · · · · · ·	ļ
		-	+	 -			 		 	-		-		
		1	+				1.			+		 	· · · · · · · · · · · · · · · · · · ·	
						,	1		 	1			·	
	,						:			1			-	
<u>.</u>		1					,				_			
WILL CA	PACITY (Gall	na Per Fanti	0.76" + 0.03	t: 37 = 0.0	id: 1.21	F" = 0.06;	2" +0 10	. 5 7 = 0.0	37; 4" = 0.6	. 184	102	F = 1A1	t 12" =	e 60
					- A	- 					*****	- 174	, (<u>*</u>	4.00
		7.1	÷		CAI	MPLIN(n nat	4	,	٠		,		
SAMPLE	BY (PRINT)		777	SAMPLE		VATURE(S		<u> </u>	SAMPLING	DATE		SAMPL	NG TIME	
Tre	ver s	lack		200	an .	To a			14/3/	14		120		,
PUMP OR	TUBING WELL (feet)			MATERIA	LCODE	-			FIELD-PILT Filtration Ex	ERED:	Y	7	FILTER	SZE:
	E COLLECTE	0 Y	0	W. C. C.					1 random ex	(abite ét e	1700.			
 		1)			y 111111			•	MITEN	160				MILE
SAM	PLE CONTAIN	er epecifi	DATION		BANPI	e prese	RVATION		ANALY ANDA HTEM	'SIB OR	EQ	mpling JPMEN CODE		PUMP PLOW RATE n/min)
D CODE	CONTAINER S	MATERIA L GODE	AOTAME	Preser USE	/ATIVE O	TOTAL ADDED IN (m).		FINAL ph						
	2	06	40ml	Ha			-]-		8260	3):	3		-
ĺ														
						<u></u>		·			4			
				ļ					4					
REMARKS	:	<u> </u>		<u> </u>		<u></u>			4		<u> </u>			
* 100 100 d 7 7 W	••				1		k.							
MATERIA	LCODES A	G = Amber G	lass; 00 = 1	Clear Glass	PE s	Polyethyl	ne; Pl	· Polypror	Wane: B= 9	vicone:	T = Te	fion:	- Other	Specify
SAMPLIN	G RQUIFMEN		APP - Ager			0 - Saile		Bladder P			c Subme			

SAMPLE D. MV. C. CATE 1. Toping Street & Two Natch Road, Columbia, SC WELL D. MV. C. CATE 1. Toping Street & Two Natch Road, Columbia, SC PURGING DATA WELL GREEN INTERV. UMBLE GREEN INTERV. DIAMETER (IRRIN): WELL VOLUME TOPING	SITE	Alauda Aba		سيسيد برحضها			7-1-	SITE							
WELL CAPACITY (Gallors Per Foot): 0.7F = 0.00; 1.8F = 0.00; 2.F =		Civuos Che	vran					LOCATION	Taylor	Street &	Two No			ımbie, S	C
WELL CAPACITY (Qualities Per Foul): 9.78" = 0.00; 1.28" = 0.00; 2.28" =	WELL	O :				SAMPL	£ (D):	MW-	9			DATE	4-	2-14	•
WELL CAPACITY (Qualities Per Foul): 9.78" = 0.00; 1.28" = 0.00; 2.28" =						Dil	RGIN	G DATA				-			
DEPTH AD Rest By Peth DOWNERS WELL VOLUME (TOTAL WELL DEPTH - STATIC DEPTH TOWARTER) WELL CORPORTY WELL VOLUME CUING TEMP PERSON (PC) PH A COND PETH DOWNERS WELL CORPORTY TIME PURSON PURSON PURSON (PC) PH A COND A DO TURN (NTU) A COLOR COOR (gallons) (gallons) (gallons) (PC) PH A COND A DO TURN (NTU) A COLOR COOR (gallons) (gallons) (PC) PH A COND A DO TURN (NTU) A COLOR COOR (gallons) (gallons) (PC) PH A COND A DO TURN (NTU) A COLOR COOR (Gallons) (Gallons) PETHOU DATA (NTU) A COLOR COOR (GALLONS) (Gallons) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (Callons) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (Callons) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (Callons) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (Callons) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (Callons) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (Callons) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (Callons) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (Callons) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (Callons) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (Callons) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (Callons) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (Callons) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (Callons) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (Callons) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (Callons) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (Callons) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (Callons) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (Callons) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (CALLONS) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (CALLONS) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (CALLONS) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (CALLONS) PETHOU DATA (NTU) A COLOR COOR WELL CAPACITY (CALLONS) PETHOU NTU) A COLOR COOR WELL CAPACITY (CAL			Total V	Vell Depth (f	cet): an		WELL!	CREEN INT	ERVAL	STA	TIC DEPT	LOO H	n Pil	DOP OUM	D TVDE
TIME VOLUME CUMUL TEMP PURBED	DIAMET	ER (inches): OLUMB Plina	B. TWELLY	0) 1044 = 7		BESTA	DEPTH	:20 feet 1	20	feet TOV	VATER (fe	(21) :			
TIME PURIOR COLUMN TEMP PM A COND. A DO TURB (1907) A COLOR COOR (1907) A COLOR COOR (1907) A COLOR COOR (1907) A COLOR COOR (1907) A COLOR COOR (1907) A COLOR COOR (1907) A COLOR COOR COOR (1907) A COLOR COOR COOR COOR COOR COOR COOR COO	*****		, Huan V		30		ב פואו	0 LO		ieli V			/foot	150	naliona
PURGED (GREDON) (GRED		VOLUME		TEMP	TT			I	┼┰-		4	7	1	1,50	1
WELL CAPACITY (Cations Per Poot): -0.78" = 0.02; 1" = 0.00; 1.35" = 0.05; 2" = 0.16; 5" = 0.37; 4" = 0.55; 8" = 1.02; 4" = 1.47; 12" = 6.88 SAMPLED BY (PRINT) CONCINE WALL CAPACITY SAMPLING DATA SA		PURGED (gallons)	PURGED		^		A		A		^	IDITY	١	COLOR	ODOR
WELL CAPACITY (Calino Per Foot): \$.78" = 0.02: 1" = 0.04: 1.28" = 0.06: 2" = 0.16: 3" = 0.37: 4" = 0.65: 8" = 1.02: 8" = 1.07: 12" = 6.80 SAMPLING DATA SAMPLING DATA CONCERN WARLINGS FOUND OR TURNED DUPLICATE COLLECTED: SAMPLING SIGNATURE(5): FILL PRITERIES SAMPLING DATA SAMPLING DATA SAMPLING TIME: 5'.00 FILL PRITERIES FILL PRITERIES SAMPLING TIME: 5'.00 FILL PRITERIES SAMPLING TIME: 5'.00 FILL PRITERIES SAMPLING TIME: S	15:00			26.9		6.0	-	401		1.0	_	207		cles	de
WELL GAPACITY (Gallors Per FOOD: -9.76" = 0.02; 1" = 0.06; 2" = 0.16; 5" = 0.55; 4" = 0.55; 5" = 1.02; 5" = 1.47; 12" = 5.88 SAMPLING DATA	,		-							4				-0	7
WELL GAPACITY (Gallors Per FOOD: -9.76" = 0.02; 1" = 0.06; 2" = 0.16; 5" = 0.55; 6" = 0.05; 6" = 1.02; 6" = 1.47; 12" = 5.88 SAMPLING DATA		ļ]				1							ſ	
WELL GAPACITY (Gallors Per FOOD: -9.76" = 0.02; 1" = 0.06; 2" = 0.16; 5" = 0.55; 6" = 0.05; 6" = 1.02; 6" = 1.47; 12" = 5.88 SAMPLING DATA	-	-	 	<u> </u>	-									4	
WELL GAPACITY (Gallors Per FOOD: -9.76" = 0.02; 1" = 0.06; 2" = 0.16; 5" = 0.55; 6" = 0.05; 6" = 1.02; 6" = 1.47; 12" = 5.88 SAMPLING DATA		 	 		+			ļ							
WELL GAPACITY (Gallors Per FOOD: -9.76" = 0.02; 1" = 0.06; 2" = 0.16; 5" = 0.55; 6" = 0.05; 6" = 1.02; 6" = 1.47; 12" = 5.88 SAMPLING DATA		,	 	 					-		_			·	
WELL GAPACITY (Gallors Per FOOD: -9.76" = 0.02; 1" = 0.06; 2" = 0.16; 5" = 0.55; 6" = 0.05; 6" = 1.02; 6" = 1.47; 12" = 5.88 SAMPLING DATA		 		 	 			 	+					-	
WELL CAPACITY (Galiurs Per Foot): 9.78" = 0.02: 1" = 0.04: 1.28" = 0.05: 2" = 0.16: 3" = 0.37: 4" = 0.65: 8" = 1.02: 2" = 1.47: 12" = 6.88 SAMPLING DATA SAMPLING DATA SAMPLING DATA SAMPLING DATA SAMPLING DATE SAMPLING PULISHING DATE SAMPLING ·			1	+				+	+						
WELL CAPACITY (Galiurs Per Foot): 9.78" = 0.02: 1" = 0.04: 1.28" = 0.05: 2" = 0.16: 3" = 0.37: 4" = 0.65: 8" = 1.02: 2" = 1.47: 12" = 6.88 SAMPLING DATA SAMPLING DATA SAMPLING DATA SAMPLING DATA SAMPLING DATE SAMPLING PULISHING DATE SAMPLING		,		 		r ,		4	-			-			
WELL CAPACITY (Galiurs Per Foot): 9.78" = 0.02: 1" = 0.04: 1.28" = 0.05: 2" = 0.16: 3" = 0.37: 4" = 0.65: 8" = 1.02: 2" = 1.47: 12" = 6.88 SAMPLING DATA SAMPLING DATA SAMPLING DATA SAMPLING DATA SAMPLING DATE SAMPLING PULISHING DATE SAMPLING								1	-						
SAMPLING DATA SAMPLED BY (PRINT) CONCION WAS ICE PUMP OR TUBING DEPTH IN WELL (dect) DUPLICATE COLLECTED: BAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION SAMPLES SAMPLES PRESERVATION SAMPLES S		-							1	7	1-				
SAMPLING DATA SAMPLED BY (PRINT) CONCION WAS ICE PUMP OR TUBING DEPTH IN WELL (Dect) DUPLICATE COLLECTED: BAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION SAMPLE SAMPLE SIZE SA											1				
SAMPLING DATA SAMPLED BY (PRINT) CONCION WAS ICE PUMP OR TUBING DEPTH IN WELL (Dect) DUPLICATE COLLECTED: BAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION SAMPLE SAMPLE SIZE SA							,								
SAMPLING DATA SAMPLING DATA SAMPLING DATA SAMPLING DATA SAMPLED BY (PRINT) CON CON WAS I'CK SAMPLER(S) BIGNATURE(S) TUBING DEPTM IN WELL (rect): MATERIAL CODE: SAMPLE CONTAINER BPSOIFICATION SAMPLE FREEBRYATION SAMPLE FREEBRYATION AND SAMPLE CONTAINER BROIFICATION SAMPLE FREEBRYATION SAMPLE CONTAINER BROIFICATION SAMPLE FREEBRYATION AND SAMPLE CONTAINER BROIFICATION SAMPLE CONTAINER BROIFICATION SAMPLE CONTAINER BROIFICATION SAMPLE CONTAINER BROIFICATION SAMPLE CONTAINER BROIFICATION SAMPLE FREEBRYATION AND SAMPLE CONTAINER BROIFICATION SAMPLE FREEBRYATION AND SAMPLE CONTAINER BROIFICATION SAMPLE CONTAINER BROIFICATION SAMPLE CONTAINER BROIFICATION SAMPLE FREEBRYATION AND SAMPLE FREEBRYATION AND SAMPLE SAMPLES BROIFICATION SAMPLE FREEBRYATION AND SAMPLE SAMPLES BROIFICATION SAMPLE FREEBRYATION AND SAMPLE SAMPLES BROIFICATION SAMPLE FREEBRYATION AND SAMPLE SAMPLES BROIFICATION SAMPLE SAMPLES BROIFICATION SAMPLE CONTAINER BROIFICATION SAMPLE CONTAINER BROIFICATION SAMPLE SAMPLES	Mert cu	PACITY (Galli	ons Per Foot):	9.76" = 0,0	2: 1" = 0.04	126"	·= 0.06;	2"=0.16;	3" × 0	.57: 4° = 0	65: 6"	1.02	* = 1.47	40" #	A 80
SAMPLED BY (PRINT) SAMPLED BY (PRINT) SAMPLED CONTAINER DOPTION WALL (rest): MATERIAL CODE: SAMPLE CONTAINER SPECIFICATION SAMPLE FREEERVATION SAMPLE FREEERVATION SAMPLE FREEERVATION SAMPLE FREEERVATION SAMPLE CONTAINER MATERIA L CODE VOLUME PRESERVATIVE USED CG 40 m1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· ·								-	7 .		A Share	- 17(1		0.00
SAMPLED BY (PRINT) SAMPLED BY (PRINT) SAMPLED CONTAINER DOPTION WALL (rest): MATERIAL CODE: SAMPLE CONTAINER SPECIFICATION SAMPLE FREEERVATION SAMPLE FREEERVATION SAMPLE FREEERVATION SAMPLE FREEERVATION SAMPLE CONTAINER MATERIAL CODE: SAMPLE FREEERVATION SAMPLE FREEERVATION SAMPLE FREEERVATION SAMPLE FREEERVATION SAMPLE CONTAINER MATERIAL CODE: SAMPLE CONTAINER MATERIAL CODE: SAMPLE FREEERVATION SAMPLE FREEERVATION AND OR SAMPLE CONTAINER MATERIAL CODE: SAMPLE CONTAINER MATERIAL CODE: SAMPLE SAMPLES S			'I 			SAM	PLIN	g däta		,		-	,		,
PUMP OR TUBING MATERIAL CODES TUBING	SAMPLE	BY (PRINT)	!!	ſ.	SAMPLER	S) SIGN	TURE(S)	SAMPUR	G DATE		SAMPL	NG TIME:	
DEPTH IN WELL (reet): MATERIAL CODE: MATERIA	PUMP OF	TURING	Warle	K	7-791-197-7		- ~	<i></i>	سيروسوالية	1 4	-2-1	7	15	.00	
EAMPLE CONTAINER SPECIFICATION EAMPLE FREEERVATION	DEPTH (N	WELL (leet):				CODE:	·			Pitation I	TERED Equipment	Type		FILTER	SIZE
SAMPLE CONTAINER PROPRIESERVATION SAMPLE PRESERVATION AND/OR SOLDE PROPRIESERVATION AND/OR METHOD PROPRIESERVATIVE (INFINITY) SAMPLE CONTAINER LOODE VOLUME PRESERVATIVE ADDED IN FIELD FINAL PH SOLDE (INFINITY) AND CG 40ml 10 - 89408 B - 89408 B - 89408 C	DUPLICA	TE COLLECTE	C: Y	0		1									T. L. is
SAMPLE CONTAINER LOOPE VOLUME PRESERVATION AND PROBLEMATIVE ADDED IN FIELD FINAL BH COOPE (INVANIA) C.G. 40ml 1.C 825013 B - 18 Polyetnylene; PP = Polypropylene; B = Silicone; T = Teffon; O = Other (Specify)			# .						1			-			
SAMPLE CONTAINER LCODE VOLUME PRESERVATIVE ADDED IN FIELD FINAL BY CG 40ml 100 - 89608 B - 89608 B - 89608 AG = Amber Gisss; GG = Ciest Gisss; PS = Polyetnytens; PP = Polypropytene; S = Sticone; T = Terion; G = Citter (Specify)	BAN	ple contain	er specific/	ATION	1	eampli	PRES	EVATION		AND	FOR	BQU	PMENT		LOW
D CODE SET CODE VOLUME USED ADDED IN FREID HAT SOLDED BY	Deletion C						TOTAL	VOI	,	NET.	HOD		vui.		imin)
ACG 40ml (C) - 8950B B - 88MARKS. WATERIAL SODES AG - Amber Gisss; GG - Clear Glass; PB - Polyetnytene; PP - Polypropytene; B - Stilcone; T - Teffon; G - Cliner (Specify)	D CODE	CONTAINER	LCODE	AOTOME	PRESERVA USED	TME	ADDED IN	FIELD		.1					
REMARKS: WATERIAL CODES: AG - Amber Glass; GG - Clear Glass; PE - Polyetnylene; PP - Polypropylene; B - Stilcone; T - Teffon; G - Cener (Specify)		λ	CG	40ml	Uci					801	012		· · · · ·		
WATERIAL CODES: AG = Amber Glass; GO = Clear Glass; PE = Polyethylene; PF = Polypropylene; E = Silicone; T = Tellon; G = Other (Specify)									1	1		-	<u> </u>		
WATERIAL CODES: AG = Amber Glass; GO = Clear Glass; PE = Polyethylene; PF = Polypropylene; E = Silicone; T = Tellon; G = Other (Specify)						1			Ť.	1		1			
WATERIAL CODES: AG = Amber Glass; GO = Clear Glass; PE = Polyethylene; PF = Polypropylene; E = Silicone; T = Tellon; G = Other (Specify)							, , , , , , , , , , , , , , , , , , , ,		1.					_	
WATERIAL CODES: AG = Amber Glass; GO = Clear Glass; PE = Polyethylene; PF = Polypropylene; E = Silicone; T = Tellon; G = Other (Specify)						Ţ	- 1		-						
WATERIAL CODES: AG = Amber Glass; GO = Clear Glass; PE = Polyethylene; PF = Polypropylene; E = Silicone; T = Tellon; G = Other (Specify)	PEMADE	`						1_							
MATERIAL CODES: AG = Amber Gisss; GG = Cirer Gisss; PE = Polyetnytene; PF = Polypropytene; B = Stilcone; T = Teffon; G = Citter (Specify)	- ART AREA MAN AND AND AND AND AND AND AND AND AND A		- In						. =						
Specify)	MATERIAL	CODES A		s; CO = (Clear Glass:	P# : 0	alvehde	ne Di=	Polyme	ndans ==	Dilippa	T' - T-0-			
	CAMPLING		CODES: A	PP = Atter	Peristatic Pun	ix f									sher u.A.)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

SITE	Olassela Olas		·				SITE								
NAME	Clouds Che						OCATION		ors St	real & Twi	Not			umbia, S	C
WELL	O: MIC	PEO		·····	SAME	LE ID:	Mw-	0				DAT	· 4·	-1-14	,
					Bi			1	-			.,			<u> </u>
WELL		1 otel	Well Depth (fo	et) A 4			S DATA		NI	STATIC	DERTA		- I B	(BAR NI)	0.700
	ER (Inches). OLUME FURG	1 1000	16 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	28		DEPTH	CREEN IN	to A	3 feet	TOWAT	ER (fe	et):		JRGE PUM P BAILER:	p
WEEL V	araun Lour	at sasiar	aorous = (28	CL DEPTH	: - STAT 8:-)	7.69	TOWA		X WELL	APAC I/	gallon	Moot	•1 /5	gations
	VOLUME	CUMUL				<u> </u>		-	- 	<u>^ 0,</u>	16			1.65	, 8-20,10
TIME	PURGED (gallens)	PURGED (gallons)		1 1	(su)	۸	COND (µS)		^	(mg/L)	٨	TURB IDITY (NTU)	Δ	COLOR	ODOR
1428		- Igantis	24.2		7.0	-	463		_	0.7	_	209	-	Cldv	
1442	2.0	2.0	22.4	1.8	1.9	0.2	661	1	5	<u> </u>	 	104	105		51/m
1500	2.0	4.0	22.7	3	8.8	0	42	_	9			12	192	CC	W
1517	2.0	4.0	122.6		67	0.1			5			8.2	34	710	
·												1			
		<u> </u>													
								-							
	ļ		-											Ē	
			-	} }		-		- -							
			+	 									-		
 			+			-		+			پ ب				
			"		ند	-	-	-							
	PACITY (Gallo	ins Per Foot)	· •.78* • 0.07		SAN	- 0.08 APLINO	2" • 0.16; 3 DAT/		• 0.37;	4* = 0.66;	\$ " =	1.02;	P = 14	7: 12" *	5.88
_	MATON (do. //2	L	SAMPL	R(B) BIGN	ATURES).	1	1	SAMPUNG D	ATE:	T		NG TIME:	7
PUMP OF	TUBING			TUBING		A	=	•	~	ELIDIFILITES	ED:	y d		FILTER	II)EI
	WELL (feet): TE COLLECTE	ag.	(1)	MATER	ALCODE:	LI			<u> </u>	ilitation Equi	ament	Type:		. 16.16351	70.6
		·						-	- -			· · · · · · ·		i Mariegai	
	PLE CONTAIN	er specific	MOITA	,	Bampl	e preses		A r	,	ANALYEI AND/OR METHOD		Pou	PLING PMEN ODE		MPLE UMP LOW ATE (min)
Sample D Code	CONTAINER S	AMTERIA L GODE	ACTINE	PRESEI US	RVATIVE ED	ADDED IN (In)	FIELD	FINAL		•	•				
	3	CG	4001	140	<u>ا</u>					82601	3	RF	pp		
				- CHI				<u>;</u>			V				
				ļ		,		, , ,		,					
		11													
										· · · · · · · · · · · · · · · · · · ·					
REMARKS		<u></u> ∦l.										L,			
		، الـ ت رحو													Ī
MATERIAL		= Amber 3		lear Glas		Polyethyler	ne; PP o	Polyp	ropylen	e: 8 = Silic	one;	T = Tef	on; (o Other (pec(N)
Banpling	3 EQUIPMENT	CODES:	APP = After F	eristallic (enstalle e	D = Baller,	6P = (ladde	Punp;	ESP = E	lectric	Submers	ible Pu	OΩ	
				AND I COM L	PHOTONIE P	marki g	an a bhan (uen MO	(IVED)	R RIGHT PINE	HI),	0 = 0M	er (Spe	CITY)	

STABILIZATION CRITERIA

pH: ±0.2 units Temperature: ±0.2 °C Specific Conductance: ±5% Discolved Gaygen: ±0.2 mg/L or ±10% Turbidity: ≤10 NTU or ±10%

SITE	Clouds Che	won					SITE					, ,		 	
No.							LOCATIO		lors S	treet & Tw	o Not	ch Roa	d, Col	umbia, S	C
WELLN	0.				SAMP	LE ID:	My	<u>/-</u>]				DATI	4-	2-14	
					ĐI	IPGIN	G DAT	•							
WELL	1	O Total	Weil Depth (f	eeti aa	7-0		SCREEN		AL.	STATIC	DERT		1	VRGE PUM	0.7500
DIAMET	ER (Inches): OLUME FURG	ム		. 30	MUMBER	DEPTH	1: ? 14	et to '	P tee	TO WAT	ER (fe	1) 18,6	0	R BAILER:	p,
1	ANAINE LAISE	PE: 1 TEIM	= (TOTAL WEL		- 51A H- }	8.6	H TOW	ATER) (feet)		APAC 	gallon	//oot	1,82	gallons
	VOLUME	CUMUL	T	TT						<u> </u>	10			الحظرا	Y
TIME	PURGED (gallone)	VOLUME PURGED	TEMP (°C)	۸	(31) ÜH	^	CON (µS		^	(MB/L)	A	TURB	Α	COLOR	ODOR
1420	(Restout)	(gailons)	24.6	1_	4.8		122	2	=	11	-	(NTU)			
1440	3.5	3.5	23.1	1.5	X 6	0.3	191		26	41	 -	101	INE.	CIC	mizu
1451	1.5	5.0	22.9	0.2	. 4	0.1	117/		8		-	Al	166	SICIA	
501	20	7.0	29.9	10 1	. 4	0	1151	-	5		-	9.9	110		
1520	1.5	8.5	22.9	0	3	0.1	179		7			9.4	7	CIC	
									1			 7	0.1	911	
ــــــــــــــــــــــــــــــــــــــ															
	-	4	<u> </u>		-									- 1	
			 	 											
						,							-		,
				-		+		-							
, ,		<u> </u>				+	<u> </u>								
MALL OF	(Golfaction)	ons Per Fact)	0.75* • 0.8	2; 1" = 0.0	4: 1.25	= 0.04;	2" = 0.1	. 3	- 0.37;	4" = 0.65;	5" =	1.02;	P = 1A	7, 12" =	69.0
	,	i:	,			ì			<u>ئىدۇ</u>				منبي حواسه	-	
RAMDI BI	BY (PRINT)			To a very	SAN	PLIN	G DAT	'A	Late						
· · ·		Warlie	L	SAMPLE	dataidii	AIURE(S			1	SAMPLING	ATE:			ING TIME:	
PUMP OF	TUEING	211		TUBING				-	-1	FIELD-FUTE	₹ 20 :	Y 0		「 PLTER	315/27
DUPLICA	WELL (feet):	D AT	(9)	MATERIA	CODE:	<u> </u>	٤			Filtration Equi	pment	Type:			
	i			1								<u>, </u>			
SAM	PLE CONTAIN	er epecific	ATION	100	A ALLEN L	n nggàn	MYATION			Mitende Analysi			PLINC		VMP
		1		l,		- i	******	i	1	AND/OR MITHOL			PMEN ODE		ATE
SAMPLE O CODE	# CONTAINER	MATERIA	VOLUME	PRESERV	ATIVE	TOTAL ADDED IN		FINAL	. +		o.*			- 100	/min)
O COUR	8	LCODE		USE		(d)		pH				٠,			1
	2	CG	40ml	Ha						82601	3	R'	EPF) -	
7 1				1											
				1									٠,٠٠٠		
	1		Turner					, 					·	_	
	- "	-			 				+						
REMARKS		السيني الم		· · · · ·	<u></u> -L	•				-					
شاه پرسان					······································					· ·					1
MATERIAL		9 = Amber Gi		Clear Glass;		Polyetnyle		- Poly			one;	T = Tetu	an; (a Other (S	pecity)
SAMPLIN(B EQUIPMENT	100ES:	APP = Atter (Peristallic Pu	mp; natame Pr	n = Baller	M to Street	Bladde	r Pump	Gravity Dra	Electric	Submers	Me Pu	m ec	
							, - 461 ()	MIGHT		A CHANDRY	u.A.	O = Oth	ा (अवर	CITY)	. 1

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ± 10 NTU or ± 10%

NAME C	clouds Chev	ren					OCATION: T	aylors (Street & Two	Note	h Rosc	i, Celi	umbia, S	C
METTNO		4.7.			SAMP		1W12				DATE	4	-ユー	14
					all	DOW	DATA				-		,	
WELL		TotalV	Veli Depth (fe	ett o.	PU		DATA	RVAL	STATIC D	EPTH	4.00	PI	URGE PUN R BAILER	IP TYPE
	R (inches): <	A	OLUME - (T	DTALW	L DEPTH	DEPTH	P feet to		et TO WATE	R (feet	学ら	(O	RBALER	P
				24.		t- J.	.20		× 0,	1	gallons	/fact	-3,27	gallons
TIME	VOLUME PURGED (gellons)	CUMUL. VOLUME PURGED (galions)	TEMP (°C)		pH (\$U)	٨	(hg) COND	٨	DO (mg/L)	Α	TURB IDITY (NTU)	٨	COLOR	ODOR
1950	١		22.7	_	6.1	4	345		1,3		46	_	Clc	mul
505	8.0	3.0	122.4	0.3	6.4	03	301	44			62	44	cle	1
5 8	2.0	5.0	22.3	0.	6.3	0.2	296	इ			11	51	clr	1-1-
528	2.5	7.5	22.5	0.3	5.9	0.3	294	13			10		Che	1-1-
235	2.5	10.0	22.4	0.1	5.8	0.1	297	3			9.8	0.4	CIC	
549	3.0	13.0	22.3	0, 1	58	0	295	12			9.5	0.3	CC	14
			4			 		+						
,					,		-							
, , ,		1,				<u> </u>								
					,	1					· · · · · · · · · · · · · · · · · · ·	ļ	*******	<u> </u>
			 			1	-	- 					ļ	ļ
	· · · · · · · · · · · · · · · · · · ·		 	~~	7		-	+						-
	Pacity (Gail			-	SAI		2**0.16: G DATA	8" = 0.3			1,02;	6° = 1,		- 5.88
•	PRINT)	Warli	de	SAMP	LER(S) SIG	NATURE		•	SAMPLING E		,		LING TIMI	
PUMP OR		20.0		YUBIN	B RIAL CODE:	P	E		FIELD-FILTE Filtration Equ		Y	7	FLTE	erse.
	TE COLLECTE		0			·			F . salesov edo	pinora	Typo.			
EAM	PLE CONTAIN	êr #Proipic	EATION		EAMP		RVATION		ANALYS AND/OI METHO	iB R	10	MPLIN VIP MEI DODE	NT	IAMPLE PUMP FLOW RATE (m/min)
		MATERIA	VOLUME		ERVATIVE USED	ADDED I	NAETO	FINAL ph					,	
SAMPLE D CODE	CONTAINER 6	LCODE	- 		· · · · · · · · · · · · · · · · · · ·		14							
D CODE	CONTAINER S	CG.	Homl	He	· · · · · · · · · · · · · · · · · · ·				8260	B	RF	PP		<u> </u>
D CODE	CONTAINER 6	LCODE	- 		· · · · · · · · · · · · · · · · · · ·	1			82b0	B	RF	PP	 !	
SAMPLE D CODE	CONTAINER 6	LCODE	- 		· · · · · · · · · · · · · · · · · · ·	1			8260	B	RF	PF		
SAMPLE D CODE	CONTAINER 6	LCODE	- 		· · · · · · · · · · · · · · · · · · ·	1			82bp	B	RF	RP		
SAMPLE D CODE	CONTAINER 6	LCODE	- 		· · · · · · · · · · · · · · · · · · ·	1			8260	B	RF			
SAMPLE D CODE REMARKS	CONTAINER S	LCODE	- 		· · · · · · · · · · · · · · · · · · ·	1			82b0	ß	RF			
D GODE	CONTAINER S	C G	40ml			1		Polyprop			RF			r (Specify)

SITE	Clouds Che	uron		-		13	SITE									
NAME:		NON.					CCAT		ylors (Stree	el & Tw	o Not			umble, S	C
WELLNO	3:				SAME	LE ID: V	1W.	<u>-13</u>	ri .	-			J VA	4-	1-14	
					PI	RGING	3 DA	TA								
WELL	•	Total	Well Depth (fe	ret): Q.o.		WELLE	CREEK	INTER	YAL	7	STATIC	DEPT	1 9/	2 P	URGE PUN	P TYPE
	R (Inches) C		VOLUME = (~	.10	DEPTH		feet to		et X	TO WAT			70	R BALLER	P
			= (30		et-	1.13)	feet		0.1	7	gallon	e/foot	-3,03	gallons
TIME	VOLUME PURGED (gallons)	CUMUL VOLUMI PURGEI (gallons	TEMP (9C)	۸	pH (su)	Δ		ND. LS)	A	,	w&r) DO	Λ	TURB IDITY (NTU)	٨	COLOR	ODOR
1432			250	-	6.2		16	7	_	9	141	-	21		cla	nune
448	3.5	3.5	24.0	11.0	6.0	0.2	14		26		-		49	28	clo	TT
1500	1.5	5.0	29.8	0.2	60	0		4	2					38	cic	
1210	2.5	7.5	23.9	0.1	5.9	10.1	13		3				10,5	0.5	clo	
1527	2.0	9.5	239		6.0	1.0	13	8	٦				9.8	0.7	cla	V
		ļ		-	-				·	_						
					7	-				<u> </u>						
				-	-	-			1	 -						
					,	-	├			 -	<u>-</u>	-				
					,	1	 			 			 -		,	
1			_						·	-			 		~	
		l,		23.	1,						*********			-		
									ii						·	,
	PARITY (Gelic	ns Per Foo): 0.78 0.0:	P	0.04: 121 SAI	MPLING	3 D/		- 0.3	t, 4	i" • 0.65;	#* -	1.02, (= 14	12"=	5.88
Car	MEY (PRINT)	alick	-	SAMPL	ER(B) SIGN	ATURES W.	1	_	,	SAI	WPUNG! 4-1	DATE:	1		ING TIME	_
PUMP OR DEPTH IN	TURING WELL (feet):	20	Ø	TUBING	IAL CODE:	P	E			PIE	D-FILTE	RED	10		FILTER	
DUPLICAT	E COLLECTE		0			*			لحسب	1 112	an i ada	bitter.	112			
BANT	PLE CONTAIN	ir brack	PATION		CANO L	ž priss	RVATIC	IN	-	a man	NYENDI ANALYE AND/OI METHO		EGU	MPLINA HP MEN HODE	3 77	EMPLE PUMP FLOW RATE (Moto)
SAMPLE D CODE	CONTAINER	MATERIA L GODE	AOTONE	PRESE	RVATIVE SED	ADDED IN	FIELD	Fis								
Ĩ	ચ	CG	Homi	140			`				3260	3	13	PP		
					0.8	:										
									1	i						
		1						<u> </u>		L						
				<u> </u>				 -	`				<u> </u>			
REMARKS).		<u></u>	<u> </u>			أيضيد	<u> </u>	-				<u> L.</u>			
		- !				1			4							
MATERIAL	CODES A	o Amberi	31888, CO = 1	Clear Gla	s; PÉ=	Polyethyle	ne;	PP e P(dypropy	lene:	0 = Sil	icone,	T = Tef	ion;	O = Other	Specify)
BAMPLING	a acultiment	CODES:	APP = After	Peristallic erae Flow	Pumpi Penstaltic P	B = Baller ump.	M = St	P = Blac aw Met	ider Pun 10d (Tul	np; bing (ESP -	Electri aln);	C Submer Q = Of	sible P	ing:	7.5

STABILIZATION CRITERIA

pM: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ± 10 NTU or ± 10%

AME:	Clouds Che	ALOII					SITE	Teylor	Street	i Two Ni	nich Ros	d. Coli	ımbia S	C
VELL N	0				SAM	PLE ID:					DAT		1/14	
					PI	URGIN	G DAT	A /	EP.	- 115	500	s k	DIE	- l
IELL IAMETE	R (inches):	1	rell Depth (fe	47	5	WELL	SCREEN I	TERVAL	feet To	ATIC DEP	TH 16	DPU	RGE PUM	
ELLV	DLUME PURG	E 1 WELL VO	LUME = ()	TOTAL WI	DEPTH	1 - SY/	TIC DEPTH	TOWAT		ell capa	CITY	e/loot		gaild
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME FURGED (gallons)	TEMP (°C)	٨	(an) lan	1	CON((µS)		(mg		TURB IDITY (NTU)	٨	COLOR	ÓD
														上
	,					-	+	+-	-	· ·	 			L
					1	+								
											-			-
								:					-	
						+	 		-		+			-
•														
					-		 	. 			-			
LLCA	PARITY (Galio	nà Per Font)	0.70* = 0.0		100: 40	7 - 0.00	27-01					ا سور	-	
	PACITY (Gallo	ne Par Foot):	0.78* = 0.02		SAI	MPLIN	8" = 0.16			0.55; 6"		F = 1A		
MPLEC MP OR PTH IN	SY (PRINT) TUBING WELL (feet):	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1-	SAMPL	SAI ER(6) SIG	MPLIN	G DAT		SAMP	0.55; 6" LING DATE			7. (2° =	
MPUEC MP OR PTH IN PLICAT	BY (PRINT)		N	SAMPL	SA) ER(6) SIG	MPLIN	G DAT		SAMPI FIELD- FIIITABO	JNG DATE	t Type:		NG TIME:	SIZE UNP LOW LOW
MPCED MP OR PTH IN PLICAT	DEY (PRINT) TUBING WELL (test): TO COLLECTE	D. V	N	SAMPL TUBING MATER	SA) ER(6) SIG	MPLIN	G DAT		SAMPI FIELD- FIIITABO	JING DATE FILTERED IN EQUIPMENT TENDED ALYSIS	t Type:	SAMPL SAMPL SPLING SPLING	NG TIME:	SIZE UNP LOW LOW
PLEC TH IN PLICAT	DEY (PRINT) TUBING WELL (rest): B COLLECTE PLE CONTAINER CONTAINER	D: Y ER BPROIPIOA	TION	SAMPL TUBING MATER	SAI ER(6) BIG IAL CODE:	MPLIN NATURE 1 TOTA ADDED	G DAT	FINAL	SAMPI FIELD- FIIITABO	JING DATE FILTERED IN EQUIPMENT TENDED ALYSIS	t Type:	SAMPL SAMPL SPLING SPLING	NG TIME:	SIZE UMP LOW LOW
MPCED MP OR PTH IN PLICAT	DEY (PRINT) TUBING WELL (rest): B COLLECTE PLE CONTAINER CONTAINER	D. Y ER EPECIFICA MATERIA LCODE	TION	SAMPL TUBING MATER	SAI ER(6) BIG IAL CODE:	MPLIN NATURE 1 TOTA ADDED	G DAT	FINAL	SAMPI FIELD- FIIITABO	JING DATE FILTERED IN EQUIPMENT TENDED ALYSIS	t Type:	SAMPL SAMPL SPLING SPLING	NG TIME:	SIZE UMP LOW LOW
MPCED MP OR PTH IN PLICAT	DEY (PRINT) TUBING WELL (rest): B COLLECTE PLE CONTAINER CONTAINER	D. Y ER EPECIFICA MATERIA LCODE	TION	SAMPL TUBING MATER	SAI ER(6) BIG IAL CODE:	MPLIN NATURE 1 TOTA ADDED	G DAT	FINAL	SAMPI FIELD- FIIITABO	JING DATE FILTERED IN EQUIPMENT TENDED ALYSIS	t Type:	SAMPL SAMPL SPLING SPLING	NG TIME:	SIZE UNP LOW LOW
MPLEC MP OR PTH IN PLICAT	PLE CONTAINER CONTAINER	D. Y ER EPECIFICA MATERIA L CODE	TION	SAMPL TUBING MATER PRESE	SAI ER(6) BIG IAL CODE:	MPLIN NATURE TOTA ADDEDI	G DAT	FINAL	SAMPI FIELD- FIIITABO	JING DATE FILTERED IN EQUIPMENT TENDED ALYSIS	t Type:	SAMPL SAMPL SPLING SPLING	NG TIME:	SIZE WALL

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ±5% Elasolved Oxygen: ±0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

SITE NAME.	Clouds Chi	vron				SITE	N Taylors	Street & Ty	vo Nat	ch Ros	d. Coli	umbia. S	C
WELLN	Q:				SAMPLE ID:	Mw				DAT	4	2:-14	<u>-</u>
WELL		n 1 †c	ital Well Depth (f	eat)		NG DAT		T					
DIAMET	ER (Inches)) I		25	DEP	L SCREEN I	et to 25	feet TO WA	TER (10	17.5	4 6	RGE PUM BAILER:	P TYPE
ASSET A	erhine LAKA	1862 T WHEE	T AOTAN = (101ALWEILI 25	DEPTH - ST Ret -	17.54		R) X WELL et) X O		y Ti gallon		-1.19	gallons
	VOLUME	CUMU		T	рн	CON			T	TURB	T	1111	
TIME	PURGED (galions)	PURG	ED (°C)		30) ^	(μ5		(mg/L)	٨	NTU	^	COLOR	ODOR
14:47			Hela	- 6	2 -	360	2 -	1,9	1=	32		CIC	none
													
	 	 		-									
	 	+		}		+		 	╀—	 	$\vdash \vdash$		
				+ +		_		 	+				 -
									†	-			,
···	<u> </u>	-		100									
		-	-	-									
										77)	2, 1		
						-				-			
					Signal and the first						7		
Mart 64	PACITY (Gall	ons Per Fo	of): 0.78" = 0.0:	2; 1" = 0.04;	1.26" = 0.89	; 2"=0.1	6; - -0.	37; 4" = 0.66;		1.02;	F = 1A	7, 12" =	9.88
		Å.						*	***************************************	· · · · · · · · · · · · · · · · · · ·			
SAMBI ET	SY (PRINT)			T RAME PROF	SAMPLI	NG DAT	A						
Co	more hi	ler li	k	SAMPLENGS	<u></u>	(6): <i>[بناسب</i>	ن	SAMPLING		1	Sampl 2 (NG TIME:	
PUMP OR DEPTH IN	TUBING WELL (feet):			TUBING MATERIAL C	ODE		1 = 2	FIELD-FILTE Filtration Equ		Y C	7/1	FILTER	IZE.
DUPLICA	TE COLLECTE	D'	0				-	- un appli Ede	hinese	type.	·		
		-		r,				NTEND	ID		PLINO		MAPLE TO
EAM	ple contain	er speci	EICATION		AMPLE PRES	ENVATION		ANALYS AND/O	R	Bou	PMENT		LOW
CAMPLE		MATERIA		PRESERVAT	NE TOY	AL VOL	-	METHO	D .				kimin)
D CODE	CONTAINER S	LCODE	AOTAME	USED	- I WATER	IN FIELD	FINAL pH	_				- 1	=
	a	CG	Your	HCT	-	~		8260	B		3		
			 				1						
													
		1						 					
		i.					į			,		_	
EMARKS	.	ļi	•	•		,	iF !						
MTERIAL	LCODE: A	2 - Amber	Glass; CG = (clear Glass,	PE - Polyeth	dene: Pr	= Priyarap	/ena; == 80	icana-	T = Ten	10.	= Other (S	20064
	COUPHENT		APP - Ater	eristatic Pumi	r Beile	er.	Blodder Pu	mo: BEP :	Einchric	Submers	DaPur	o lo:	her(iA)
-	· · · · · · · · · · · · · · · · · · ·		MEET 3 MEM	rse Plac Pens	ane rump;	sid = Staw	Method (Tu	bing Gravity Dr	ain);	0 = Oth	er (Spe	ily)	

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

WELL NO MANUEL ID. MANUEL ID. MANUEL ID. MANUEL ID. MANUEL ID. MANUEL STREET INTERVAL DEATH OF THE CONTRIBUTION OF THE CONTRIB	SITE	Clouds Che	vron				1	SITE	Te	viore :	Street & Tw	n Not	ch Rose	Col	imble S	
PURGING DATA WELL SCREEN NTERVAL DAMAETER (INChes) TOTAL WELL DEPTH (20 Text 5.00 neet 10 Water (resp. 20 of Baller 10 Water (resp		Mw	1.74			SAMP			_		,	- 1101				
WELL SCREEN NTERVAL DUMMTER (Inches) DUMMTER (Inches) WELL VOLUME PURGE: (TOYAL WELL OPEN 1 - STATIC DEPTH 1 - STATIC DEPTH 2 - STATIC DEPTH 2 - STATIC DEPTH 2 - STATIC DEPTH 3						 		/ 100	+			-			41.	
DIAMPETER (ICHOR): DIAMPETER (ICHOR): DIAMPETER (ICHOR): OR BALET: OR BAL						PU										
TIME PURCED COUNTY (CC) 1 9H A COND A DO A TURN (RTTU) A COLOR ODOR (RESTORS) (PC) 1 (PC) 1 9H A COND A DO A TURN (RTTU) A COLOR ODOR (RESTORS) (PC) 1 (PC)	DIAMETE	R (inches):	ク ー		30		DEPT	42 <i>0</i> fe	et to 3	ST te	et I TO WAT	DEPTI	1 33.0	0 5	URGE PUN B RAU FO	IP TYPE
TIME PURSUED COUNTY TEMP PURSUED (*C) ** (**) ** COID	MELLY	LUME PURG	E TWELL		OTALWE	LL DEPTH	- STA	TIC DEPT	HTOV	NATER) X METT	Capac	ITY			
TIME (passers) PURGED (CC) A (CU) A (CS) A (CO) A (T	CUMUL	, 	7	7	ة <u>لا</u> "	4.00	+-	100	, 0,	<u>b</u>	7	noot	1.28	gavons
WELL CAPACITY (Goldis Per Pool; 0.78" = 0.02; 1" = 0.04; 1.28" = 0.08; 2" = 0.16; 5" = 0.37; 4" = 0.85; 5" = 1.02; 5" = 1.47; 12" = 5.83 SAMPLING DATA SAMPLING DATA SAMPLING DATA SAMPLING DATA SAMPLING DATA SAMPLING DATA SAMPLING DATA SAMPLING DATE: SAMPLING DA	TIME	PURGED	PURGED	(°C)			۸	(µS)	Α,		A	IDITY	٨	COLOR	ODOR
SAMPLED BY (PRINY) CAMPLED DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) C	14:50			24.7		6.9		29	C.		1.0		82		CIC	offen
SAMPLED BY (PRINY) CAMPLED DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) C			 	 							<u> </u>	 				
SAMPLED BY (PRINY) CAMPLED DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) C			 	·		.,	-	 			ļ	 	 	<u> </u>		ļ
SAMPLED BY (PRINY) CAMPLED DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) C	(1-1			┼──	1			-		<u> </u>		 -
SAMPLED BY (PRINY) CAMPLED DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) C						····		†	-			-				1
SAMPLED BY (PRINY) CAMPLED DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) C									1			1		_		
SAMPLED BY (PRINY) CAMPLED DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) C							-								_	
SAMPLED BY (PRINY) CAMPLED DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) C										,						
SAMPLED BY (PRINY) CAMPLED DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) C		<u> </u>		1		- 		<u> </u>						,		
SAMPLED BY (PRINY) CAMPLED DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) C			 	 	-			+	1		<u> </u>	-		·		
SAMPLED BY (PRINY) CAMPLED DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) C							-	+	-		<u> </u>	 	-		·	
SAMPLED BY (PRINY) CAMPLED DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLING DATE CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINC) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) CAMPLED BY (PRINY) C					 				- +).).	·	 				
SAMPLED BY (PRINT) COME WELL (Rest): DUPLICATE COLLECTED: SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION SAMPLE CONTAINER MATERIA CODE: SAMPLE PRESERVATION SAMPLE CONTAINER MATERIA CODE: SAMPLE PRESERVATION SAMPLE CONTAINER MATERIA CODE: SAMPLE CONTAINER MATERIA CODE: SAMPLE CONTAINER LCODE SAMPLE CONTAINER LCODE PRESERVATIVE USED SAMPLE CONTAINER LCODE FIRST CODE SAMPLE CONTAINER LCODE PRESERVATIVE USED SAMPLE CONTAINER LCODE FIRST CODE SAMPLE CONTAINER LCODE PRESERVATIVE USED SAMPLE CONTAINER LCODE SAMPLE CONTAINER LCODE PRESERVATIVE USED FINAL PH SAMPLE CONTAINER LCODE FINAL PH SAMPLE CONTAINER LCODE FINAL PH SAMPLE CONTAINER LCODE FINAL PH SAMPLE CONTAINER LCODE SAMPLE CONTAINER LCODE FINAL PH SAMPLES SAMPLING TIME: SAMPLE CONTAINER LCODE FINAL PH SAMPLES SAMPLING TIME: SAMPLE CONTAINER LCODE FINAL PH SAMPLES SAMPLING TIME: SAMPLE SAMPLING TIME: SAMPLE CONTAINER LCODE FINAL PH SAMPLES SAMPLING TIME: SAMPLE CONTAINER LCODE FINAL PH SAMPLES SAMPLING TIME: SAMPLE CONTAINER LCODE FINAL CODE SAMPLE CONTAINER LCODE SAMPLE CONTAINER LCODE FINAL CODE SAMPLE CONTAINER LCODE SAMPLES SAMPLING TIME: SAMPLE CONTAINER LCODE SAMPLE CONTAI	WELL CA	PACITY (Gall	ons Per Faat):	0.78" = 0.03	j ¶*.≪(3.04; 1.2 4	J" = 0.06;	2"=0:1	6; 8	r = 0.3	7; 4" = 0.65	5" •	1.02;	" = 1 _/	17. 12" =	5,68
SAMPLED BY (PRINT) COME WELL (Rest): DUPLICATE COLLECTED: SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION SAMPLE CONTAINER MATERIA CODE: SAMPLE PRESERVATION SAMPLE CONTAINER MATERIA CODE: SAMPLE PRESERVATION SAMPLE CONTAINER MATERIA CODE: SAMPLE CONTAINER MATERIA CODE: SAMPLE CONTAINER LCODE SAMPLE CONTAINER LCODE PRESERVATIVE USED SAMPLE CONTAINER LCODE FIRST CODE SAMPLE CONTAINER LCODE PRESERVATIVE USED SAMPLE CONTAINER LCODE FIRST CODE SAMPLE CONTAINER LCODE PRESERVATIVE USED SAMPLE CONTAINER LCODE SAMPLE CONTAINER LCODE PRESERVATIVE USED FINAL PH SAMPLE CONTAINER LCODE FINAL PH SAMPLE CONTAINER LCODE FINAL PH SAMPLE CONTAINER LCODE FINAL PH SAMPLE CONTAINER LCODE SAMPLE CONTAINER LCODE FINAL PH SAMPLES SAMPLING TIME: SAMPLE CONTAINER LCODE FINAL PH SAMPLES SAMPLING TIME: SAMPLE CONTAINER LCODE FINAL PH SAMPLES SAMPLING TIME: SAMPLE SAMPLING TIME: SAMPLE CONTAINER LCODE FINAL PH SAMPLES SAMPLING TIME: SAMPLE CONTAINER LCODE FINAL PH SAMPLES SAMPLING TIME: SAMPLE CONTAINER LCODE FINAL CODE SAMPLE CONTAINER LCODE SAMPLE CONTAINER LCODE FINAL CODE SAMPLE CONTAINER LCODE SAMPLES SAMPLING TIME: SAMPLE CONTAINER LCODE SAMPLE CONTAI	-							A 843	20			-		-		
PUMP OR TURING DEPTH IN WELL (1981): BAMPLE CONTAINER SPECIFICATION BAMPLE PRESERVATION BAMPLE PRESERVATION BAMPLE CONTAINER MATERIA CODE: PRESERVATIVE USED FILTER SIZE: PRESERVATION BAMPLE PRESERVATION BAMPLE CONTAINER MATERIA CODE: PRESERVATIVE USED FINAL PH BAMPLE PRESERVATIVE USED FINAL PH BAMPLE PRESERVATIVE USED FINAL PH BAMPLE CONTAINER CODE: PRESERVATIVE USED FINAL PH BAMPLE CONTAINER CODE: PRESERVATIVE USED FINAL PH BAMPLE CONTAINER CODE: PRESERVATIVE USED FINAL PH BAMPLE CONTAINER CODE: PRESERVATIVE USED FINAL PH BAMPLE CONTAINER CODE: PRESERVATIVE USED FINAL PH BAMPLE CONTAINER CODE: PRESERVATIVE USED FINAL PH BAMPLE CONTAINER CODE: PRESERVATIVE USED FINAL PH BAMPLE CONTAINER CODE: PRESERVATIVE USED FINAL PH BAMPLE CONTAINER CODE: PRESERVATIVE USED FINAL PH BAMPLE POLYCOPY FINAL PH BAMPLE CONTAINER CODE: PRESERVATIVE USED FINAL PH BAMPLE CONTAINER CODE: PRESERVATIVE USED FINAL PH BAMPLE CONTAINER CODE: PRESERVATIVE USED FINAL PH BAMPLE CONTAINER CODE: PRESERVATIVE USED FINAL CODE: PRESERVATIVE USED FINAL CODE: PRESERVATIVE USED FINAL PH BAMPLE CONTAINER CODE: PRESERVATIVE USED FINAL CODE: PRESERVATIVE CODE: PRESERVATIVE USED FINAL CODE: PRESERVATIVE CODE: PRESERVATIVE USED FINAL CODE: PRESERVATIVE CODE: PRESERVATIVE USED FINAL CODE: PRESERVATIVE CODE: PRESERVATIVE CODE: PRESERVATIVE CODE: PRESERVATION FINAL CODE: PRESERVATIVE CODE: PRESERVATIVE CODE: PRESERVATIVE CODE: PRESERVATION FINAL CO	SAMPLE	BY (PRINT)			SAMPU	ER(S) SIGN	MTURE(S).	A		SAMPLING	DATE:		SAMP	UNG TIME	
TUBING DEPTH IN WELL (Rect): SAMPLE CONTAINER EPECIFICATION SAMPLE CONTAINER EPECIFICATION SAMPLE CONTAINER MATERIA CODE PRESERVATIVE JOTAL VOL MELL (Rect): SAMPLE CONTAINER LGOOF VOLUME PRESERVATIVE JODED IN FIELD FINAL PH STANDED AMALYSIS AND/OR NETHOD CODE CONTAINER LGOOF VOLUME PRESERVATIVE JODED IN FIELD FINAL PH STANDED AND/OR NETHOD CODE CONTAINER LGOOF VOLUME USED FINAL PH STANDED IN FIELD FIELD FINAL PH STANDED IN FIELD FINAL PH STANDED IN FIELD FINAL PH STANDED IN FIELD FINAL PH STANDED IN FIELD FINAL PH STANDED IN FIELD FINAL PH STANDED IN FIELD FINAL PH STANDED IN FIELD FINAL PH STANDED IN FIELD FINAL PH STANDED IN FIELD FINAL PH STANDED IN FIELD FINAL PH STANDED IN FIELD FINAL PH STANDED IN			Werl.	ik			بالد	•	1				1	1.4	1:50	
SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION SAMPLE PRESERVATION SAMPLE PRESERVATION SAMPLE PRESERVATION SAMPLE CONTAINER MATERIA VOLUME PRESERVATIVE USED ADDED IN FIELD FINAL PH SZGDISS (CONTAINER USED CODE (CRL) FINAL PH SZGDISS	DEPTH IN	WELL (feet):	جائے۔	\			_		-		Filtration Box	RED:	TVDE			
SAMPLE CONTAINER SPECIFICATION EAMPLE PRESERVATION SAMPLE CONTAINER LCODE VOLUME PRESERVATIVE ADDED IN FIELD FINAL ph CGD CONTAINER LCODE CGC CONTAINER LCODE VOLUME PRESERVATIVE ADDED IN FIELD (mL) CGC CONTAINER LCODE WATERIAL CODES: AG - Amber Glass; CG - Clear Glass; PE - Polyethylene; PF - Polygropylene; B - Stilcone; T - Teffon; C - Other (Specey)	DUPLICA	re collecte	D. Y	(1)				·	1	أسدستنميس				<u> </u>		-
SAMPLE CONTAINER LGODE VOLUME PRESERVATIVE USED ADDED IN FIREL PH A CG 40ml HCL - 82608 B REMARKS: MATERIAL CODES: AG = Amber Gisss; CG = Clear Giass; PE = Polyethylane; PF = Polyethylane; PF = Polyethylane; T = Tetion; O = Cither (Specify)	SAM	PLE CONTAIN	er specific	ATION		eampl	a Prici	ERVATION	3	,	ANALY!	HS R	SQU	PME	n n	PUMP FLOW RATE
A CG 40ml HCL - 82608 S - Salicane; T = Tetion; O = Citier (Specify)	D CODE	CONTAINER	MATERIA L GOOE	VOLUME			ADDED	N FIELD								REMIN)
REMARKS: WATERIAL CODES: AG = Amber Glass; CO = Clear Glass; PE = Polyethylene; PF = Polyethylene; B = Silicone; T = Tetion; O = Cither (Specify)		D	CG	40ml	HC	L					82601	3	1 R	5	-	
REMARKS: WATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PF = Polyethylene; B = Silicone; T = Tetion; O = Cither (Specify)						- ",									_	
REMARKS: WATERIAL CODES: AC - Amber Glass; CC - Clear Glass; PE - Polyethylane; PF - Polyengpylane; B - Silicone; T - Tation; C - Cither (Specify)		•		,					- 1							
WATERIAL CODES: AG = Amber Glass; GG = Clear Glass; PE = Polyethylene; PF = Polyethylene; B = Silicone; T = Tellon; G = Cither (Specify)									1	<i></i>						
WATERIAL CODES: AG = Amber Glass; GG = Clear Glass; PE = Polyethylene; PF = Polyethylene; B = Silicone; T = Tellon; G = Cither (Specify)									·		ļ		 	·		
- control telecont	REMARKS			·		لبسيب					<u> </u>			·		
- control telecont	MATERIA	LOODER A	a = Amner G	355: 00 .00	lear Cies	a. Obe	Polyabol	ene 6	1 m 600	-	1876" S = 5*	leges.	* . *		A	(Boar # A
REPP & Reverse Flow Paristolic Pump. SM & Street Method (Turbon Greats) Dealer Consider	-		CODES:	APP - Ater	enstaltic	Pump	9 - Ball	r, SP	= Blad	der Pu	mp: ESP -	Electri				one:ny)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

SITE NAME.	Clouds Ch	evron '				,	SITE	Texto			. Net				
WELLN	0:			· · · · · · · · · · · · · · · · · · ·	SAM	PLE ID.	LOCATION	1	a one	et & Two	NOI	ER ROB	3		C
L		1			1 3-411	PLE ID.	IMI	8	······································				4.0	-14	
					P	URGIN	G DAT	À	يەر ئىمارو	,					
WELL	'ER (inches):	2 Tota	i Weil Depth (I	eet) 2	<u> </u>	WELL	SCREEN IN	TERVAL		STATIC D	EPT	103/	PU	RGE PUM	P TYPE
WELLY	DLUME PURC	E TWILL	VOLUME -	TOTALWE	LL DEPT	DEPTH H - SYA	I: 20 feet	10 30	feet	TO WATE	(144	6-13°	OF	BAILER	انست
			- (38) 10	et- a	3.68	f	eet) X	0.1		gallon	s/foot :	1.01	gallons
TIME	VOLUME	COMOL	TEMP		pН		CONE			00		TURB		1101	
	PURGED (gallons)	PURGEO		^	(au)	^	(µS)	1	` ['	(mg/L)	Α	(NTU)	1 ^ [COLOR	ODOR
13:49			25.0		5.6		182		- 7	7,4		341		c/J	Strong
														-	
		-	-												
	ļ	 		4		 		!						, .,	
-	+	+		-		1	<u> </u>								
	 			++		+		+	-						
				1 - 1	****		-	+-	+-						
				1			 		+-				-		
					····				_		-				
												,			
·													1		
	 														
	4	1	1,	11											,
MELT C	LPACITY (Gall	ons Per Foot	0.75° = 0.0	2 1*=0	04, 12	30.06	# = 0.16	\$0 m.().97; 4	l" = 0.65;	5" =	1.02;	F = 1 <i>4</i> 7	12" 4	98.8
	-	, l					باست أراد ساديه	1	-		3			7	-
SAMPLE	DEY (PRINT)			1 64400	SA	MPLIN	G DATA	<i>I</i> ,	-			- 5			
Ca	merm	Wallie	L	SAMPLE	1018 (8)M:	NATURE(S		,	SAI	MPLING D	-			NO TIME:	
PUMP OF	TUBING		,	TUBING					FIEL	D-FILTER	EO:	¥ 70	13.	49 PILTER	170
	TE COLLECTE	D: Y	0	1 WVIEW	AL CODE:			1	Filtr	ation Equip	mere.	тура:			
	7	1-			,		· · · · · · · · · · · · · · · · · · ·	1 -	7					EA	NO.
MAN	ple dontain	er specifi	NOITAG	1	LAND	J PRESE	KOITAVE	1		anal yes			PLING PNENT		LOW
· · ·								1	.	AND/OR METHOD			201		ATE Voin)
Bample D Code	CONTAINER	MATERIA LCODE	VOLUME	PRESER	WATIVE	TOTAL ADDED IN	PELD	FINAL					**************************************		2403101
	2	CG	Hom		21	(m)		PH	٠,	30100			- 1		
		- 0	-10(1)	140	4-			-	+ 8	260F	2		3		
					-			-	+-				·····		
			, 1					J.	+	· ; ;				-	
						-1						-			
REMARK														1	
THE PROPERTY OF	ı.	1		-			-	1			<u></u>				
MATERIA	LCODES A	3 - Amber G	lass: co = 6	Clear Grass	_ BB =	Polyethyle	10 BB -	Polypro	nue	B = Mit					
	EQUIPMENT		APP - After	Peristanie F	umo	a Figure	20 0	i eridaé D	: 170 M	200 - C		T = Tette Bubmers		e Other (S	pecity)
		<u> </u>	RFFF - Revi	130 Flow P	enstatus P	ump:	M = Straw !	detinad (1	LINUO G	maily Drain	uiii Mi		und FUT	144	

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

SITE C	Clouds Che	vron				Ī	ITE CCATION:	Teylors :	Street & Tw	o Note	ch Rose	d. Col	umble. S	Ĉ
WELLNO); <i>(</i>				SAME		MW-1	9					3/14	
				······································	- 				2 - P ^{2-Q}				9/1	
WELL		To	ıl Well Depth (fi				CREEN INT	EPS (A)	1 07-20					
DIAMETE	R (Inches)	ス !		50		DEPTH	QD feet t	0 3 0 fe	SEL I TO WAT	ER (16)		3 0	JRGE PUM R BAILER	P TYPE
WELL TO	Lumb Purg	B: TWELL	ACTING a ()	30		et- Di	ic depth 1 3.85	O WATER feet			gallon:	Meet	1,07	gellons
TIME	VOLUME PURGED (gallons)	CUMUL VOLUM PURGE (gallors	TEMP.	٨	pH (SU)	^	COND.	۸	(mg/L)	٨	TURB IDITY (NTU)	٨	COLOR	QDOR
1435	-		23.4		4.3	 	194	-	0.8	_	164		SICILLY	mad
													7	1000
				-			-			ļ	,			
				+				 -		 		-		
,					· · · · · · · · · · · · · · · · · · ·				<u> </u>		-			-
		11											,	
				+										
-		# 1		+	· · · · · ·			-		ļ				
	-	1,			<u>, , , , , , , , , , , , , , , , , , , </u>			+						
		N.								Í	3			
							ì						40.45.4	
		L		1 1 .	٠, يا		_					ليبينا		
· · · · · · · · · · · · · · · · · · ·	DBY (PRINT)		n): 0.79" = 0.0		SAI	MPLINE	2" - 0.16.	S* = 0.3	7; 4" = 0.65;		1	SAMP	I7; 12"=	
Tre	ME SI	ock		1/2	1	As.			4/3/	14		16	135	
	WELL (feet):			MATERIA	L CODE	-		, .	Filtration Equ	HED Ipment	Type: 0	Ì	FILTER	SIZE:
DUPLICAT	E COLLECTE	D: Y	0											
SAMP	Pla Contain	er epecij	FIGATION	,	BANFI	LS PRESE	,	,	intendi Analys And/or Metho	HB . R	EQL	MPLINI JIPMEN SODE	ir i	LAPLE LOW LATE (Main)
SAMPLE D CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESER	ATME D	ADDED IN	FIELD	FINAL pH						
	٦	C	40ml	Ha			1		226013		F	}		•
- 1		-	 			-		· ·	<u> </u>		ļ			
		1	 								-			
							1							
				1		1	1 1		1		T		-	
DEMAGE		<u> </u>	<u> </u>	ــــــــــــــــــــــــــــــــــــــ		L			<u> </u>		<u> </u>			
REMARKS			,	<u> </u>					l	********	<u> </u>			
REMARKS		• = Amber	Glass; 90 u	Clear Glass,	P8 =	Polyethyle	na, PP	Polyprop)	dene, E = Si	licone;	T = Tel	īan,	Q = Other (Specify)

STABILIZATION CRITERIA

pH:±0.2 units Temperature:±0.2 °C Specific Conductance: ±5% Dissolved Oxygen:±0.2 mg/L or±10% Turbidity:≤10 NTU or±10%

SITE	Olavela Obe						SITE							
NAME:	Clouds Che	vron					OCATION T	aylors	Street & Tw	o Not	ch Rose	d, Coli	umbla, S	C
WELLN	0				SAME		W-2	0		-	DATE		3/14	
						,								
WELL		A Tot	al Well Depth (f	tion.			3 DATA		T			-		
DIAMET	ER (Inches)	~ I		***) <u>a</u> e	5	DEPTH	CREEN INTE	15	STATIC SET TO WAT	DEPTH ER //m	21.9	b to	iroe Pum : Bailer	PTYPE
MACEV	OLUMB PURT	E: TWEL			LL DEPTH	+ STAT	IC DEPTH TO	WATER) X WELL		TY		· Drietin	
	7	- KIN201	* (25	161	2)	.95	fee	*) × O1	6	gallons	Most	.0.49	gallons
TME	VOLUME PURGED (gallons)	VOLUM PURGE (gallers	E TEMP D (°C)	٨	р Н (su)	. 4	(48)	٨	(mg/L)	1	TURB IDITY (NTU)	۸	COLOR	ODOR
135	3000		23.4		6.1		136	し	0.7		77		Clr	10000
				1		1		+		一			Cic	mod
-				1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			_	 	 		 		
				1			,	+		-		 	-	
		1		1				+	 	,				
		1		1-1				+			;			
	1			+				 	ļ				,	
	 	1		++				 						
	 			++	,			-						
		-		-				-						
 	 	 					+	-						
-													,	
·	 			4										
			-4				- -			1				
	<u> </u>	حدول مساد	1	1 1	<u> </u>			Ť						, , ,
WELL O	LPACITY (GAR	ons Per Foo	t): 0.76" = 0.0	2; <u>1"</u> = 0	04, 121	P = 0.06;	2" = 0.16	3" = 0.3	7: 4"=0.65:	6° =	1.02: 4	P = 14	7; 12" = 1	
	, <u>, , , , , , , , , , , , , , , , , , </u>							<u> </u>						
		i i			SAL	do inc	DATA							
SAMPLE	DEY (PRINT)			SAMPL	R(9) 910)			-	SAMPLING	ATE		SAMO	NG TIME:	
Trea	ver SI.	ackt		1					4/3/1	7	.	3	15	- 1
PUMP OF	TUBING WELL (feet):		4	TUBING			· · · · · · · · · · · · · · · · · · ·		FIELD-FILTE	ED:	V CN		FLIER	ize
	TE COLLECTE	D: 7Y			ALCODE:				Filtration Equ	proent	Type:			
· · · · · · · · · · · · · · · · · · ·				DIAPL			1	سي ريست						
EAM	fle Contain	er efect	ICATION		BAMPL	s presei	NOITAVI		ANALYSI ANALYSI AND/OR METHQI	8	EQU	PLINO PMEN ODE	P	UNP LOW ATE
D CODE	CONTAINER 6	MATERIA L GODE	VOLUME	PRESER	ED	TOTAL ADDED IN	FIELD 1	NAL pH		,				Vmin)
	2	CG	40m1	HU				-	82601	3	L	3	1 =	
		li Si						1						
-					1						·			
			, , , , , , , , , , , , , , , , , , , ,			-								
REMARKS	<u> </u>				i				<u> </u>					
		, , ,					1							ŀ
		O = Amber (3 asa; co =	Slear Glass	. PB =	Polyemye	e; pp = p	olypropy	fene; 8 = Silli	cone:	T = Teff	מוני פ	· Other (S	Repeilor
CAMPLIN	G EGUIPMEN	* e ODES:	RPP = Atter	Peristants F	ump. eristatic Pr	V = Galler, ump; S	Pit Rit	riciar Cui		- Inches	Culmon	100		

STABILIZATION CRITERIA
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ± 10 NTU or ± 10%

SITE	Clouds Che	Vion					COATIO	N Taylor	Street & Tw	no Not	ch Roe	i. Colu	mbla. S	C
WELLN		V-0.01	7		SAME		100-				DAT	4/3		
						i .						- ' / '	2/	
14151.1					PL	JRGING								
WELL DIAMETI	ER (inches):	<u> </u>	Well Dapth (fe	0		DEPTH	10 10	NTERVAL BE to 30	fast Thuke	DEPTI	21.1		RGE PUM BAILER:	P TYPE
MILLY	DLUME PURO	E: I WELL	OLUME - (1		LOEPTH	- STAT	C DEPT	TOWATE	R) X WELL	CAPAC	ITY			
 	1	CUMUL.	- \	30	16	<u>"- 2)</u>	: 1 1	· · ·	et) × O.	16	gallon	NOOL *	1,42	gallons
TIME	VOLUME PURGED (galions)	VOLUME PURGED (gallons)	TEMP (°C)	٨	(SU)	۸	CON (µS		(mg/L)	٨	TURB IDITY (NTU)	۸	COLOR	ODOR
1244		~	24.8		5,6	-	24)	1,4	_	37	-	CIr	med
							- }							
		}	 			ļ				ļ				
			 	╂╼╾╂-						┼				<u> </u>
		*		 			+	-		┼		-		
							1			-		-+		
		1								1				
														-
							,							
_	-					<u> </u>								
			-		* .	-				1-				
WELL CA	PACITY (GE	ons Pér Poot)	0.78" = 0.07	1" = 0.	4; 121	F" = 0.06;	2" = 0.1	6 3" = 0	37; 4" = 0.68	· •	1.02;	P = 1:47	12"	5.96
,		1		,	SAI	MPLING	3 DAT	À	3 3 7			,	-	
	SY (PRINT)			SAMPLE	2(8) \$IGI	NATURE(S			SAMPLING				NG TIME:	
PUMP OF	EVET S	DINGK		UBING					14/3/			131		
DEPTHIN	TE COLLECTE		10	MATERIA	LCODE		_		Piltration Eq	tower.	Type:	<u> </u>	FILTER	size:
					·			-	17.2					W.
WAM	Ple Cüntain	er epecyk	ATION		RAMPL	la presei	MOITAYS	-1	ANALYI AND/O METHS	09 R	201	/PLING IPMENT IODE		LOW LOW LATE
SAMPLE D CODE	CONTAINER	MATERIA L'GODE	VOLUME	PRESERV USE	ATNE D	TOTAL ADDED IN	FIELD	FINAL pH				•		(Van In)
Constitution of the same	2	CG	4001	HC		-		-	8260	B	7	3	1=	
								!						
				,,										
	1								 		 	``		
,								· •			-			
REMARK				<u></u>	·				<u> </u>		<u></u>	· ·		
					,				·	·			***	
	L CODES: A	G = Amber G	APP = Atter	iear Glass.		Polyethyle		= Polypro			T = Tef		= Other (Specify)
- The second			RIPP = Revi	recisions P MSe Flow Pi	ony. Pristance F	B = Bailer, Pump; ■	M = Stra	Bladder P	ump; ESP = 'ubing Grawly Di	e Electri rain):	Submen O = Of	ide Pur er (Soei		

STABILIZATION CRITERIA
pH:±0.2 units Temperature:±0.2 °C Specific Conductance:±5% Dissolved Oxygen:±0.2 mg/L or±10% Turbidity:≤10 NTU or±10%

SITE C	Clouds Cha	ron		·····		1	OSATION T	eviors :	Street & Tw	o Note	h Rose	Cob	ımkia S	~
WELLNO):	1	Chingen April		SAME		1w-25	3		- 11010	DATE	4/.	3/14	
	7 4 M 3 A	3 to 62.64		.,		1	144 6				4		2/1-1	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				PL		DATA							
WELL DIAMETE	R (inches): 9	~	Mell Depth (fe	50)	DEPTH:	CREEN INTE	30 to		DEPTH ER Mee	23.6	J PU	RGE PUM BAILER	PTYPE
MELLVO	LUME FURG	: TWELL	OLUME - (T	OTALWE	L DEPTH	- STAT	IC DEPTH TO	WATER	X WELL	APACI	ĪΫ			
		CUMUL.		30			1.65	100) × 0.1	b	gallord	1	1.02	gallons
TIME	VOLUME PURGED (gallens)	VOLUME PURGED (galigns)	TEMP (°C)	٨	рН (SU)	۸	COND. (µS)	۸	(mb/r)	,	TURB IDITY (NTU)	۸	COLOR	ODOF
1/25	-		24.2		6.5	-	20	_	1.9		96		cic	moc
		ļ	 			ļ		-						
			-	 		 				-		 		-
-				1					 	 				<u> </u>
													-	
			<u> </u>											
						-	<u> </u>	 			***			
			 			1		╂		1-1			***	-
		· · · · · · · · · · · · · · · · · · ·			آبید دید باشده			1		1 1	, i <u>u</u>		·	
		1									,			
			<u> </u>		, , , , , , , , , , , , , , , , , , , 		i in						÷ ,,	h.
well ca	PACITY (Gallo	na Per Foot):	9.76" - 0.02	t, 1° = 0	04: 12	0.06;	2" = 0.16;	a05	7; 4" = D:66;	6 * =	1.02;	F = 1A	7: 12" =	5.68
	-	.1) (· · · · · · · · · · · · · · · · · · ·				-	-11.7					
na sano est	BY (PRINT)			-			ATAG 6	1						
	ver s				(3) 5(6) Bando	NATURE	2		SAMPLING!	DATE:			NG TIME:	
TUMP OF	TUBING WELL (feet):			TUBING	11 0005		_	-	FIELD-FILTE	RED.	Y 79		FILTER	SIZE:
DUPLICAT	E COLLECTE	5. Y	6	MAICK	ALCODE:				Filtration Equ	bweur.	Туре		-	
					*						-	-	1 -81	APER.
		4	4	i					MTEND	EĎ				
GAMP	LE CONTAIN	en spacific	ATION		BAMPI	e presen			NTENDI ANALYI AND/O METHO	iis R	EQU	MPLING RPMEN RODE		FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW
SAMPLE	CONTAINER S	MATERIA L CODE	VOLUME		EVATIVE ED	TOTAL ADDED IN	WOL FELD	mal ph	ANALYS AND/O	iis R	EQU	HPMEN		LOW
SAMPLE	CONTAINER	MATERIA			EVATIVE ED	TOTAL	WOL RELD	THAL PH	ANALYS AND/O	iis R D	#QU	HPMEN		LOW
SAMPLE	CONTAINER S	MATERIA L GODE	VOLUME	US	EVATIVE ED	TOTAL ADDED IN	WOL RELD	pH	ANALYE ANEXO METHO	iis R D	#QU	RPMEN IODE		LOW
SAMPLE D CODE	CONTAINER S	MATERIA L GODE	VOLUME	US	EVATIVE ED	TOTAL ADDED IN	WOL RELD	pH	ANALYE ANEXO METHO	iis R D	#QU	RPMEN IODE		LOW
SAMPLE	CONTAINER S	MATERIA L GODE	VOLUME	US	EVATIVE ED	TOTAL ADDED IN	WOL RELD	pH	ANALYE ANEXO METHO	iis R D	#QU	RPMEN IODE		LOW
SAMPLE D CODE	CONTAINER S	MATERIA L GODE	VOLUME	US	EVATIVE ED	TOTAL ADDED IN	WOL RELD	pH	ANALYE ANEXO METHO	iis R D	#QU	RPMEN IODE		LOW
SAMPLE	CONTAINER S	MATERIA L GODE	VOLUME	US	EVATIVE ED	TOTAL ADDED IN	WOL RELD	pH	ANALYE ANEXO METHO	iis R D	#QU	RPMEN IODE		LOW
SAMPLE D CODE	CONTAINER S	MATERIA L GODE C.G	VOLUME Yom1	US	NATIVE ED	TOTAL ADDED IN	HELD YOL	pH	ANALYI AND/O METHO 8160	13	#QU	3		CATE (ATE)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

SITE NAME:	Clouds Ch	vron					SITE	on T	wors	Street	& Tw	o Not	ch Ros	t. Col	umble, S	~
WELLN	0;	- •	7		SAMI		NW						DATI	H.	1-14	
			y												, , ,	
WELL		O TO	a Wali Manth //	- 1124	PI	JRGING						-			···	
DIAMET		2 '"	al Well Depth (f	್ [,] ೩5,	<u>6</u>	WELL S	· P :	eet to	7 .	nat I :	STATIC O WAT	HPSQ (18)	19.7	1 0	urge pum R Bailer:	PTYPE
WELL V	orane pok	FN: 1 WEL	AOTOM - (TOTALWELL	L DEPYF 人 fe	et - 10		TH TO	WATER	() X	WELL,	APAC /	ITY		-0.94	gallons
	VOLUME	CUMUL	<u> </u>	T T			 	<u>.</u>	T	1		 	7		1	Banons
TIME	PURGED (gallone)	PURGE	(°C)	^	(an) bu	٨		ND. 3)	\		67) 30	^	TURB IDITY (NTU)	A	COLOR	COOR
9:12			18.8	_	6.6		49	1	_	17	2	-	496	-	elda	Stron
															-	
	 		-	++-					 	 						
					7					-	/	-				ļ

														-		
. · · · · ·	 				<u> </u>					<u> </u>						
***************************************	1	1		 -		-								,		
			# 1	1 1	 		i is	-		i i					Ţ.	
								-		7.7				,		
		<u> L</u>														1 27
WELL C	LFACITY (Gab	oris Per Foo): 9.75" = 0.0	2; 1° = 0.0	4; 1.2 8	5" = 0.06;	8* = 0	16, 4	- 0.3	ř; 4*	- 0.65;	6 * =	1.02;	r = 1 <i>A</i>	7, 12" =	5.89
	, , , , , , , , , , , , , , , , , , , ,					, , , , , , , , , , , , , , , , , , , 	* * * * * * *						· · · · ·			
SAMDI E	O BY (PRINT)		·	I describe	SAI	MPLING	DA E	TA								
	mero .	Serlie	k	SAMPLER	(a) 21G	WATURE(S)): 		4		LING!	ATE:		Sampl P	ING TIME:	
PUMP OF	TUBING	-		TUBING MATERIAL	1 32 .		· · · · · · · · ·			FIELD	FILTE	RED:	YO		FILTER	IZE.
	TE COLLECTE	0. Y	8	ances present					1	FIRE	on Equ	bweir	уре	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
						-					TENDS	0				MPLH
BAN	PLE CONTAIN	er specif	IDATION		CANTL	e Preser	VATIO	N ·			nalye Nadyof		EQU	ode Pama Pline	7 7	LOW
SAMPLE		MATERIA		PRESERV		TOTAL	/OL 1			-	ETHOL		-	YUR 		ATE (min)
D GODE	CONTAINER	LCODE	VOLUME	PRESERV		ADDED IN	FIELD	FIN pi				-			1	
	g g	CG	HUMI	HCL	ů.					8.	160]	3	7	3	+=	
														-		
	÷	,						·	4							
					-											
	1/2	·								· ·						
REMARK			4					7-5-5-		''				,		
MATERIA	L CODES A	Ġ = Amber (855; CG = (Clear Glass;	PH a	Polyethyler	no	B C.	typropyl	Ane:	D = City		B., 2			
	S EQUIPMENT		APP = After	Paristotic Pu	ne:	B - Baller:		- Blad	der Pun	no:	2 - Sili	Inchic	T = Telle Submers	ida Pu	o Other (S	ipecify)
			RPPP = Reve	Re Flow Per	istaluc P	ump; #I	M = Stra	w Meth	od (Tub	ding Gra	Mly Dra	in);	0 = Off	er (Spe	cify)	. 1

STABILIZATION CRITERIA

pH: ± 0.2 units. Temperature: ± 0.2 °C. Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

louds Che	ALDII			_		OCATION: T	aylors t	Street & Two	o Note	:h Rose	i, Co	lumbia, S	C
				SAM			******			DATE	4/	3/14	1
	,					1							·
	Total	Mail Frants de		, P l				Laborio			7		
R (inches):			TO 30					et TO WAT	Cepth ER (fel	n20.0	1 6		
Lume Purg	WELL.	VOLUME = (T			et- STAT	C DEPTH TO) X WELL	APAC	TY			
10011110	CUMUL.				T		T	0.1	 		_	1,60	7
PURGED (gallena)		(°C)	Λ	(Su)	Α.	(µ\$)	۸	(mg/L)	^	ידוםו (טדט)	٨	COLOR	ODC
	-	350		7.0	_	191		1.2	1	296		Cly	mo
-	-				ļ		 		}—		<u> </u>		↓
	1			· (1 	-	. (+					 -	┼
													1
	<u> </u>	-	 										
·						2,	-						
				,	l Ti	-	-		- 1	A = 34		ř	-
						- 1			-				-
					_		-		-		-		-
	- i		<u> </u>			į.				1			
								,			7 -		
MOTTY (Gall	ns Per Pool	0.75" = 0.02	17 • 0),04; 1£	5° = 0.08;	2" = 0.16;	3° -03	7: 4°=0.68.	6* =	1.02	-61	7 12"	5.60
	ins Per Post	0.76" = 0.02	· · · ·	BA	MPLIN	ATAG E	3° -03		<u>.</u>	1.02;	P # 1,	47, 12**	5.69
BY (PRINT)		0.75" = 0.02	· · · · ·	BA		ATAG E	3- → 0.3	8AMPUNG	<u>.</u>		-	LÍNG TIME	-
BY (PRINT)		0.76" = 0.02	TUEING	SA EN(S) SIG	MPLIN	ATAG E	7 • 0.3	BAMPLINGS 4/3/ FELD-FLTE	ATE I	1	-	-	
BY (PRINT)	slock		TUEING	8A ER(S) SIG	MPLIN	ATAG E	3* • 0.8	SAMPLINGS	ATE I	1	-	LING TIME	
BY (PRINT) VV S TUBING WELL (foot)	slock	2.76***0.07	TUEING	SA EN(S) SIG	MPLIN	ATAG E	7-03	SAMPLING I 4/3/ FIELD-FILTE Fabration Equ	TATE I	Туре:	SAMP	GIG TIME	EIZE:
BY (PRINT) VV S TUBING WELL (foot)	olock_		TUEING	SAI EN(S) SIG 2 //	MPLING NATURES	9 DATA	3-03	BAMPLINGS 4/3/ FELD-FLTE	ATE III	Type:	-	CAIG TIME	SIZE:
BY (PRINT) TUBING WELL (REST) E COLLECTE LE CONTAIN CONTAINER	D: Y MATERIA L COOP	DATION VOLUME	TUEING MATER	SAL FRISTSIG	MPLIN	O DATA EVATION FIELD F	3" = 0.3	BAMPLING E 4/3/ FELD-FILTE FEBRATION EQU MITEMEN AND/OI METHOL	PATE IN THE PARTY	Type:	SAMP	CAIG TIME	ANFL) PUMP PLOW RATE
BY (PRINT) VICE G TUBING WELL (fest) E COLLECTE	D V	CATTON	TUEING MATER	SAL FRISTSIG	MPLING NATURES 1 PASSE TOTAL ADDED IN	DATA EVATION FIELD	WAL.	SAMPLING E U/3/ FEID-FILTE FEBRATION EQUI STENEN ANALYS AND/OI	PATE IN THE PARTY	Type:	SAMP	CAIG TIME	SIZE:
BY (PRINT) TUBING WELL (REST) E COLLECTE LE CONTAIN CONTAINER	D: Y MATERIA L COOP	DATION VOLUME	TUEING MATER	SAL FRISTSIG	MPLINE NATURES NATURES NOTAL ADDED IN	DATA EVATION FIELD	ML H	BAMPLING E 4/3/ FELD-FILTE FEBRATION EQU MITEMEN AND/OI METHOL	PATE IN THE PARTY	Type:	SAMP PLIK IPMEI ODE	LING TIME	SIZE:
BY (PRINT) TUBING WELL (REST) E COLLECTE LE CONTAIN CONTAINER	D: Y MATERIA L COOP	DATION VOLUME	TUEING MATER	SAL FRISTSIG	MPLING NATURES NATURES NOTAL ADDED IN	DATA EVATION FIELD	ML H	BAMPLING E 4/3/ FELD-FILTE FEBRATION EQU MITEMEN AND/OI METHOL	PATE IN THE PARTY	Type:	SAMP PLIK IPMEI ODE	LING TIME	SIZE:
BY (PRINT) TUBING WELL (REST) E COLLECTE LE CONTAIN CONTAINER	D: Y MATERIA L COOP	DATION VOLUME	TUEING MATER	SAL FRISTSIG	MPLING NATURES NATURES NOTAL ADDED IN	DATA EVATION FIELD	ML H	BAMPLING E 4/3/ FELD-FILTE FEBRATION EQU MITEMEN AND/OI METHOL	PATE IN THE PARTY	Type:	SAMP PLIK IPMEI ODE	LING TIME	SIZE:
BY (PRINT) JULY G TUBING WELL ((BBI)) E COLLECTE LE CONTAIN CONTAINER S A	D: Y MATERIA L COOP	DATION VOLUME	TUEING MATER	SAL FRISTSIG	MPLING NATURES NATURES NOTAL ADDED IN	DATA EVATION FIELD	ML H	BAMPLING E 4/3/ FELD-FILTE FEBRATION EQU MITEMEN AND/OI METHOL	PATE IN THE PARTY	Type:	SAMP PLIK IPMEI ODE	LING TIME	SIZE:
BY (PRINT) TUBING WELL (REST) E COLLECTE LE CONTAIN CONTAINER	D: Y MATERIA L COOP	DATION VOLUME	TUEING MATER	SAL FRISTSIG	MPLING NATURES NATURES NOTAL ADDED IN	DATA EVATION FIELD	ML H	BAMPLING E 4/3/ FELD-FILTE FEBRATION EQU MITEMEN AND/OI METHOL	PATE IN THE PARTY	Type:	SAMP PLIK IPMEI ODE	LING TIME	SIZE:
	R (inches); LUM PURO VOLUME PURGED	CUMUL. VOLUME PURGED (gallons) Total CUMUL. VOLUME PURGED (gallons)	Total Well Depth (fer control of the	Total Well Depth (feet): 30 LUME PURGE: 1 WELL VOLUME - (TOTAL WE - 30) VOLUME PURGED (9°C) A (gallons) (Qallons) (9°C)	Total Well Depth (feet): 30 LUME PURGE: 1 WELL VOLUME - (TOTAL WELL DEPTH - 30 VOLUME PURGED (VOLUME PURGED (°C) A (SU) (gallons) (gallons) (20,0) - 7.0	PURGING R (inches) 2 Total Well Depth (feet): 30 WELL S DEPTH: SO FEET OF STATE VOLUME PURGED (OC) A SHAPE (gallons) (Qallons) (OC) A (SU) A DEPTH: SO FEET OF STATE (SU)	PURGING DATA PURGING DATA R (inches) 2 Total Well Depth (feet): 30 Well SCREEN INTE DEPTH: 7 feet o 1 Well Volume (Total Well Depth - Static Depth to 1 feet - 20,0) VOLUME PURGED (9C) A PH PURGED (QBilans) (QBilans) (9C) A (SU) A COND (QBilans) (QBilans) (QBilans)	PURGING DATA Total Well Depth (feet): 30 Well Screen interval Depth: 7 feet to 1 te 1 te 1 te 1 te 1 te 1 te 1 t	PURGING DATA PURGING DATA R (Inches) 2 Total Well Depth (feet) 30 Well Screen interval toward towa	PURGING DATA PURGING DATA PURGING DATA R (Inches) 2 Total Well Depth (feet) 30 Well Screen Interval Depth Towater (feet) 4 Well Volume (Total Well Depth - Static Depth Towater) × Well Capacity (Static Depth Tow	PURGING DATA PURGING DATA PURGING DATA R (INCRES)	PURGING DATA PURGING DATA R (Incres) 2 Total Well Depth (feet) 30 Well SCREEN INTERVAL test to test to twell CAPACITY SO FEET 20.0 Feet X WELL CAPACITY VOLUME PURGED PURGED (°C) A (Su) A COND A (mgAL) A 101TY A (NTU) (gailors) PURGED (°C) A (Su) A 191 A 296	PURGING DATA PURGING DATA PURGING DATA R (Incress) 2 Total Well Depth (feet) 30 Well Screen interval test to Water (feet) 20.01 Or Baller: LUMB PURGIS: 1 Well Volume (TOTAL Well Depth - STATIC Depth To Water) X Well Capacity Total Well Volume Temp A ph A COND Test X O.1 Salions/floot - 1,600 VOLUME PURGED (CC) A ph A COND (MS) A (mg/L) A (DT) TORRESCO (CC) A (Su) A (Mg/L) A (DT) TORRESCO (CC) A (Su) A (Mg/L) A (DT) TORRESCO (NTU) A COLOR (Qalions) (CC) A (Su) A (Mg/L) A (DT) TORRESCO (NTU) A COLOR TORRESCO (CC) A (Su) A (Mg/L) A (DT) TORRESCO (CC) A (Su) A (Mg/L) A (DT) TOTAL WELL CAPACITY TOTAL

STABILIZATION CRITERIA

pH; ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

SITE NAME:	Clouds Ch	EVIO	n		<u> بدیره سید کردا</u>	•		SITE	Toylore	Street 6 St					······································
WELLN	0:			,	 	SAN	APLE (D.	MW	1 7	Street & TV	AD IND	ich Ros	d, Co	iumble, S	C
7		The second second second second second second second second second second second second second second second se						/ W	* /				4.	1-14	
WELL			Т.		ويوادان	P		G DATA							
DIAMETE	R (inches)	2	Yota	i Well Depth (leet) 3	0	WELL	SCREEN INT	ERVAL	STATIC	DEPT	H	, _A P	urge Pun	P TYP
MELLY	LUNE PUR	0E: 1	WELL	YOLUME *	TOTALW		H - STA	IC DEPTH	OWATE	() X WELL	TER (III	et): 14.	07 0	R BALER:	
		7 (CUMUL		30	?'	œt-	<u>4.65</u>	fee	*) × O·.	16	gallon	s/foot	- 2.46	gallor
TIME	VOLUME PURGED (galigns)	P	OLUME ORGET OLUME	(°C)	۸	(SU)	. ^	COND.	1	(mg/L) DO	٨	TURB IDITY (NTU)	٨	COLOR	ODC
891	3.0	4-		19.3	-	6.7	-	400		2,3	 	86		cle	חטח
844	2.0		3.0	18.3	Tro	6.3	0.4	389	113			31	55	clr	1
907	2.5		7.5	18.6	0,3	6.4	0.1	386	11			9.4	21.6	de	
pg a.	415	+		10.6	10	6.3	104	382	14.		4	9.6	0.1	elr.	J
R. Bin		1	-	1							-				
	*								-		-		-		
,						,			_						-
							1							-	
==-		-											,		1 24
	·····		-				-	· · · · · · · · · · · · · · · · · · ·			,				
7,							100	-				y			
						حد رُخ جد		·			1				
ell cap	ACITY (Gai	ons Pe	r Foot)	0.75"= 9.0	10 = 0	DA: 44		2" = 0.16			-				-
		-		,					\$ = 03	4" = 0.65	6° +	1.02;	7=14	7; 12"=2	.66
MPLED	BY (PRINT)				RAME	SA	MPLINO NATURE(B)	DATA			-				
Ca	MERRA	4)	arl	ick	Shinra	201010		.		SAMPLING!	ATE:	1		NG TIME:	
MP OR	NELL (feet):	<u></u>	19.	7	TUBING	ALCODE	PE			PELO-FILTE	(ED)	V -	\mathcal{I}	PLTER'S	7F
PLICATE	COLLECTE	1 0 (" " "	V	<u>O</u>	HELY STATE	ALCOUE.	11			Pitration Equ	pment '	ype:	· · · · ·		
			l		,					NTENDE				1 84	PLE-
· ·	E CONTAIN			Ation		RAMPI	i Presen	VATION		ANALYE AND/OR METHOS	8	EQUI	DOS PHENT PLINO	門門	IMP CW LTB
VPLE CODE	CONTAINER		ERIA DOE	AOTOME			ADDED IN (mL)	JETO .	PH						min)
-+	2	Ç¢	-	40ml	HC				_	8260F		RS	P		-
								- 4.							-
		20					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					٠			
		-						-++							
ANKS.			1	,54				-							
imkks:		-,	;			· ·	,	1	· · · · · · · · · · · · · · · · · · ·		الــــــــــــــــــــــــــــــــــــ				
BRIAL C	ODES A	a Am	ber Gia	81. 00 - 0	lear Glass		Dab one				·				
	CUPMENT		18:	APP - Atter P	eristolic P	an D	Polyethylen B = Baller,		olypropyle dder Pum			T = Tello	ı, o	• Other (Sp	ecity
	- 1		1	IPP - Reve	se Plow P	enstable Pr	ump, Sh	l = Straw Me	duT) beit	ng Gravity Drai	recuric i N);	Submersi O = Othe	ae Pur r (Spec	ig ig	

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C. Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

Clouds Ch	Syron			*************************************		SITE	Tendor	a Olmat A	Toro Ale			_	
0	forie			SA	MPLE ID: /		12	P Oligh! W	IAO MO	DAT	En l	lumble, S	<u>sc</u>
						*****	<u> </u>				4/	1/19	
	. 1 #	-4-1-1-1-1		F									r
R (inches):	~ 1		-	0				STA	TIC DEPT	H 15	13 P	URGE PUN	P TYP
OLUME PUR	OE! 1 WE	TT AOFOWE -	TOTAL	ELL DEP	TH - STA	TIC DEPT	TOWATE	R) X WE	LL CAPAC	TY			B
VOLUME		72 1	72	Υ		2.63 T		, , e	2.16	· · · · · · · · · · · · · · · · · · ·	9/1001	2 	Qállo
PURGED (gallons)	PURG	ED (°C)	^	(su)	4		- 1	(mg/L	A	IDITY (NTU)	^	COLOR	CDC
		18.6		6		181		2,9		188		CH	\
	+				-	 						-	"
	1		┪		-			<u> </u>					
					+	-							
								+		-			<u> </u>
								-			┝╌┥		
,	-												
	+	_	-				,						
	-			***									
			+	, , , , , , , , , , , , , , , , , , , 	+		20 P S 1 12						
-			+			-						,	
								 	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			-
BY (PRINT)				SA	MPLING	DATA					*,		1.88
erna hi	larlie	<u>K</u>	<u>L</u>		ツー			SAMPLIN 4-1	> DAYE	1	AMPL	NG TIME:	1
VELL feets			TUBING	ALCODE			(Filtration 6	ERED	(1)		PILTERS	ZE.
COLLECTE	Э.		·		1				district :	100.			-
e contain	er epaçı	TRATION		BAMPI	i Prusia	MATION		ANALY AND/		EQUI	THERE	PI	PLE IMP OW
CONTAINER S	MATERIA L CODE	VOLUME	PRESER	VATIVE ED	ADDED IN	MELD	FINAL					(0)	min)
2	CG	Hom	140	77.00				2211	R	7	ζ	-	
									-		·		· .
		-			, a		ì						
													
					· · · · · · · · · · · · · · · · · · ·								
		·						-					
Paris :			-										, 5, 0
									licone; '	r = Teflen	. 0:	Other (Se	ecili.
	~ WKB!	RFPP = Rays	enstallic P Reflow P	ump eriotetic P		# = B	adder Pur	p; 28 P	Elsebus C	ubmersib	ie Pum	g	777
	AGITY (Gall BY (PRINT) CONTAINER SONTAINER CONTAINER CONTAINER AGITY (GALL COLLECTE	ACITY (Gallone Per Formation Well (Gallons) WENTY (Gallone Per Formation Well (Gallons) WELL (Geot): COLLECTED: CONTAINER MATERIA LOOPE A C.G.	PROPERTY (Gallans Per Foot): 0.75" = 0.0 ACITY (Gallans Per Foot): 0.75" = 0.0 SY (PRINT) CONTAINER EPEGLIFICATION CONTAINER MATERIA VOLUME CONTAINER LCOOK VOLUME COLLECTED: WELL VOLUME CONTAINER MATERIA VOLUME COLLECTED: WELL COLLECTED: APP - After EQUIPMENT CODES: A	Total Well Depth (feet): 2 SLUME PURGE: 1 WELL VOLUME: (TOTAL W. 3 VOLUME PURGED PURGED (9C) A (gallons) (gallons): (9C) A AGITY (Gallons Per Pox): 6.75* = 0.02: 1* = 1 BY (PRINT) CUBING Well Depth (feet): 7 AGITY (Gallons Per Pox): 6.75* = 0.02: 1* = 1 BY (PRINT) CUBING Well (Gallons Per Pox): 6.75* = 0.02: 1* = 1 BY (PRINT) COLLECTED: WATERIA VOLUME PRESENCE CONTAINER MATERIA VOLUME PRESENCE COLLECTED: WELL (CODE US) COMPMENT CODES: APP - After Paristable COUPMENT CODES: APP - After Paristable CODES: APP - After Paristable CODES: APP - After Paristable CODES: APP - After Paristable CODES: APP - After Paristable CODES: APP - After Paristable CODES: APP - After Paristable CODES: APP - After Paristable CODES: APP - After Paristable CODES: APP - After Paristable CODES: APP - After Paristable CODES: APP - After Paristable CODES: APP - After Paristable CODES: APP - After Paristable CODES: APP - After Paristable CODES: APP - After Paristable CODES: APP - After Paristable CODES: APP - After Paristable CODES: APP - After Paristable CODES: APP - Aft	Total Well Depth (feet): 30 CUMUL: 30 VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEP 30 VOLUME PURGED PURGED (9C) A gh (8u) (galions) (galions) (9C) A (8u) AGRITY (Galions Per Foot): 6.78" = 0.02: 1" = 8.04: 1.8 SY (PRINT) SY (PRINT) CUMUL: 5.78" = 0.02: 1" = 8.04: 1.8 SY (PRINT) COUNG WATERIAL CODE COLLECTED: 60 CONTAINER EPECIFICATION CONTAINER MATERIAL VOLUME PRESERVATIVE USED COUPMENT CODE: APP - After Peristable Runs COUPMENT CODE: APP - After Peristable Runs COUPMENT CODE: APP - After Peristable Runs COUPMENT CODE: APP - After Peristable Runs COUPMENT CODE: APP - After Peristable Runs COUPMENT CODE: APP - After Peristable Runs COUPMENT CODE: APP - After Peristable Runs COUPMENT CODE: APP - After Peristable Runs	PURGIN PU	PURGING DAT PURGING DAT PURGING DAT PURGING DAT R (inches) 2 Total Well Depth (feet) 30 Well SCREEN I DEPTH 5 Fee R (inches) 3 Total Well Depth (feet) 30 Well SCREEN I DEPTH 5 Fee R (inches) 4 Well Volume 7 Total Well Depth 5 Fee PURGED (Qallons) 1 Well Volume 7 Temp 9 PURGED (Gallons) (G	SAMPLE ID MW-28 PURGING DATA PURGING DATA PURGING DATA R (Inches) 2 Total Well Depth (feety 30 LUMB PURGE: 1 Well Volume - (TOTAL Well Depth - STATIC Depth 1 Spect of 20 LUMB PURGE: 1 Well Volume - (TOTAL Well Depth - STATIC Depth 1 Spect of 20 LUMB PURGED ("C")	SAMPLE ID MW-18 PURGING DATA PURGING DATA R (inches): Total Well Depth (reet): 30	PURGING DATA R (IRChes) 2 Total Well Depth (IREY 30 Well SCREEN INTERVAL TO WATER IN TOWARD IN	SAMPLE D MW-28 PURGING DATA R (Inches) 2 Total Well Depth (Next) 30 Depth 15 next 50 feet 10 WATER (Next) 15 Total Well Depth (Next) 30 Depth 15 next 50 feet 10 WATER (Next) 15 Total Water (Next) 15 total Sample (Next) 15 total	SAMPLING DATA PURGING DATA PURGING DATA PURGING DATA PURGING DATA R (Iriches)	SAMPLE ID NOVEL SCREEN TRYON Street & TWO Notch Road, Columbia, S. SAMPLE ID NOVEL SCREEN THE WELL VOLUMB (I GOTAL WELL DEPTH - STATE DEPTH -

STABILIZATION CRITERIA

PH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

	Or d					O 5 12			Street & Tw		DAYE			<u> </u>
ELT N			<u> </u>		SAM	PLE (D:	Mw-2"	1				4-	1-14	
			+		PI	URGIN	G DATA							
ELL	ER (Inches).	Q Total	Vell Depth (le	et) 30	7	WELL	CREEN INTE	TVAL 2	STATIC	DEPT	15.5	P	urge pum	r Y
	BLUMB PUKO		OLUME = (1	OTALWE	LL DEPTH	1 - STA	IC DEPTH TO	WATER	eet TOWAT		itv		R BAILER	15
		1 /8/16/69	;= (30) ^{fe}	et-	5.51	fee	10 × 0.16		gallore	/feet	-2.4%	gaile
IME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP (°C)		pH (SU)	۸	COND.	٨	00 (mg/L)	٨	TURB IDITY (NTU)	۸	COLOR	CE
थार	-		19.5	-	5.8	-	174	-	3.5	1=	48		c/r	Λ
- 1					• 3		- F			1				 ''
<u></u>					E		3 -						, ,	
			184 1				44						ji -	
******	<u>'</u>	<u> </u>												
	 		<u> </u>		-									
	ļ	+	 											
		-				,								
				╁┷┼		 		 	<u> </u>				-	
	 			 		 	-	 						
··········			-			-		 	 	-				
***************************************					•	-		-	1		,	-	· · · · · · · · · · · · · · · · · · ·	-
	7				7.127	-		-				,	3 5	,
		ns Per Foot):			04; 1,2	5* = 0.6 <u>6</u> ,	2" = 0.16	5" = 0.3	7; 4"= 0.65;	6 *-=	1.02;	" = 1 <i>A</i>	7. 12**	5.68
IP OR	BY (PRINT) A M + V - TURING WELL (Feel)	hVa-1.	i.k	SAMPLE	SAI R(s) SiGi	MPLIN NATURE(S	3 DATA	8" = 0. 3	SAMPLING I	ATE: 14		SAME	ING TIME:	
AD OTH MI HT	amt	hVa-1.		SAMPLE	SAI R(s) sigi	MPLIN NATURE(S	3 DATA	- 0.3	SAMPLING!	ATE: 14		SAME	NGTIME:	
IP CAR	A MT - P - TURING WELL (feet)	D. V	ik O	SAMPLE	SAI R(S) S(G)	MPLIN NATURE(S	3 DATA	5" = 0.3	SAMPLING I	ATE: /4 RED primeral	Y CO	SAME	PILTER	SIZE UMP LOW LOW
PORTH IN	A m t very very very very very very very very	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ATION VOLUME	SAMPLE	SAI PR(S) SIGN ALCODE	MPLININATURES A PRESENTATION AND THE ADDRESS IN TOTAL AD	B DATA RVATION VOL. F	S" = 0.3	SAMPLING E 4-1- FRELD-FRITE FRITEDIN EQUI ANTENDE ANALYS	ATE: /4 RED primeral	Y CO	SAMPING 9	PILTER	SIZE UMP LOW LOW
PORTH IN	A M TURING WELL (fest): E COLLECTE	D. V	ATION	SAMPLE TUBING MATERY	SAI IR(S) SIGN ALCODE BANDA WATME	MPLIN NATURE(S W)	DATA RVATION VOL FILL	VAL	SAMPLING E 4-1- FRELD-FRITE FRITEDIN EQUI ANTENDE ANALYS	ATE: /4 RED pment	Y CO	SAMPI 7	PILTER	SIZE Union ATM
PORTH IN	A m t very very very very very very very very	D: Y REFECIPIO MATERIA L GODE	ATION VOLUME	SAMPLE TUBING MATERI MATERI PRESER USI	SAI IR(S) SIGN ALCODE BANDA WATME	MPLIN NATURE(S W) TOTAL ADDED IN	B DATA RVATION VOL FILL	VAL	SAMPLING E -/-/- FELD-FILTE Filtration Equ NTEMPE ANALYS AND/OT METHOR	ATE: /4 RED pment	Type:	SAMPI 7	FILTER	SIZE Unit
PORTH IN	A m t very very very very very very very very	D: Y REFECIPIO MATERIA L GODE	ATION VOLUME	SAMPLE TUBING MATERI MATERI PRESER USI	SAI IR(S) SIGN ALCODE BANDA WATME	MPLIN NATURE(S W) TOTAL ADDED IN	B DATA RVATION VOL FILL	VAL	SAMPLING E -/-/- FELD-FILTE Filtration Equ NTEMPE ANALYS AND/OT METHOR	ATE: /4 RED pment	Type:	SAMPI 7	FILTER	SIZE Union ATM
PORTH IN	A m t very very very very very very very very	D: Y REFECIPIO MATERIA L GODE	ATION VOLUME	SAMPLE TUBING MATERI MATERI PRESER USI	SAI IR(S) SIGN ALCODE BANDA WATME	MPLIN NATURE(S W) TOTAL ADDED IN	B DATA RVATION VOL FILL	VAL	SAMPLING E -/-/- FELD-FILTE Filtration Equ NTEMPE ANALYS AND/OT METHOR	ATE: /4 RED pment	Type:	SAMPI 7	FILTER	SIZE Union ATM
AP COR PTH IN FLICAT	A m t very very very very very very very very	D: Y REFECIPIO MATERIA L GODE	ATION VOLUME	SAMPLE TUBING MATERI MATERI PRESER USI	SAI IR(S) SIGN ALCODE BANDA WATME	MPLIN NATURE(S W) TOTAL ADDED IN	B DATA RVATION VOL FILL	VAL	SAMPLING E -/-/- FELD-FILTE Filtration Equ NTEMPE ANALYS AND/OT METHOR	ATE: /4 RED pment	Type:	SAMPI 7	FILTER	SIZE Unit
PORTH IN	A M TUBING WELL (fest): E COLLECTE LE CONTAINS CONTAINER S J.	D: Y REFECIPIO MATERIA L GODE	ATION VOLUME	SAMPLE TUBING MATERI MATERI PRESER USI	SAI IR(S) SIGN ALCODE BANDA WATME	MPLIN NATURE(S W) TOTAL ADDED IN	B DATA RVATION VOL FILL	VAL	SAMPLING E -/-/- FELD-FILTE Filtration Equ NTEMPE ANALYS AND/OT METHOR	ATE: /4 RED pment	Type:	SAMPI 7	FILTER	SIZE Union ATM
PARKS	YURING WELL (feet) E COLLECTE LE CONTAINE CONTAINER S 2	D: Y REFECIPIO MATERIA L GODE	ATION VOLUME	SAMPLE TUBING MATERI MATERI PRESER USI	SAL PR(S) SIGN ALCODE	MPLIN NATURE(S W) TOTAL ADDED IN	B DATA RVATION RVOL FI	VAL	SAMPLING TO A PRICE PRIVATE PRIVATE PRIVATE ANALYS ANALYS METHO:	ATE: /4 RED pment	Type:	SAMPI 7	FILTER	SIZE Union ATM

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ±5% Discolved Oxygen: ±0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

SITE C	louds Che	vron			- /	7	SITE		- 41						
WELLNO		. A	K		1/.		LOCATION	Taylon	Stree	I & TW	o Not	ch Ros	d, Col	umble, S	C
					1500	APLE ID \	1w-	<u> </u>				UAI	4-	1-1	
					P	URGIN	G DAT	A							
WELL. DIAMETER	? (inches).	Tota	Well Depth	(fee)). 3 (AGATA	CREEN IN		feet	STATIC TO WAT	DEPTI ER (le	20.	54 P	IRGE PUN R BAILER,	P TYPE
ANTIF AG	LVIIIE PUNG	e: A Metr	VOLUME =	(TOTAL WELL	HDEPT	H - STA	O SC	TOWATE	R) X	WELL C	APAC	ITY	/foot		gallon
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (gallons)	TEMP	۸	(kn)	۸	COND (µS)		T	DO ng/L)	A	TURB	٨	COLOR	ODOF
10:07			27.3		6.¥		3/8		1 3	. %	=	(NTU) 56		clr	N
			+	+++	ــــــ	4									
							= -1		士				\vdash		
			-	+-+	,	-			-			, , , , , , , , , , , , , , , , , , ,			
		1							上	-	,			_	
	-			+	- 			-	-						
															1
			2.1		-				-						
								2.1							
MELL CAP	ACITY (Gallo	m Der Fort	0720-01	<u> </u>			-							l	-
W 40-			~.	1" = 0.0	· 14	0 - 0.00,	X" = 0.16,	2-407	37, 4	= D.65;	***	1.02;	* 14	12"=	3.69
AMPLEDE	Y (PRINT)		·	T SAMPLER	SA	MPLING	DATA	1	I DAGA	PUNG D		رد سبد	i com		
UMP OR T	MEING (A	larlick		TUBING		NATURE(S)			4	-1-1	4	1	lo:	NG TIME:	,
EPTH IN W	COLLECTE	D Y	0	MATERIAL	CODE	•			FIELD	FILTER ion Equip	ment '	ype:		FILTER	ZE:
SAMPLI	e contani	ir specific			ZAMO!	a Presen	Various '			TENDAL NALYSI	2	BAN	PLINO		NATE OF
	- 1		· · · · · · · · · · · · · · · · · · ·						1 4	and/or athod		#QUI	PMENT DDE		ATE (min)
CODE	CONTAINER	MATERIA L GODE	AOTONG	PRESERVA	TIVE	ADDED IN	Ero	FINAL							
	2	<u>C6</u>	Yanı	HCL	,	-			83	WB		E	}		
				1											
EMARKS:					4			-						-5	
ATERIAL C	ODES AO	= Amber Giz	35. CO = 1	Clear Glass;	PB -	Polyethylen	A. B.	Polypropy	Inur.	04 201-					
implino e	CUIPMENT	CODES:	APP = After	Peristante Pur orse Plaw Per	n er	R . Ratter	80 - 6	Indian D.		***		T = Teflo Submersi		= Omer(S	pecify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

SITE	Clouds Ch	evron				T	SITE	-								
WELLN					SAN		LOCATIO			Site	et et IM	0 101	CO ROS	7	lumbia, S	
<u></u>		1 -				ires je.	<u>M~</u>	-12	1			-		4	1-2-1	4
					P	URGIN	G DAT	À								
DIAMET	ER (irches):	2 101	al Well Depth ((eet) 3.		WELL	SCREEN I	NTE	X4.		STATIC	DEPTI	24.	4/ P	VRGE PUM	P TYPE
WELLY	OLUME PUR	E TWEE	. YOLUMI o	TOTALW	ELL CEPT	H - STA	TIC DEPT	A TO	WATER	() X	TO WAT	CH (IC	FLJ.	<u> </u>	R BAILER	
		CUMUI		35) "	est- 21	1.41	-	fee	t) X	6 ,	16	Ballen	s/loot	8	gallons
TIME	VOLUME PURGED (gailons)	VOLUM PURGE (Gallons	D (PC)	۸	pH (su)	۵	(hg	- 1	٨		00 (mg/L)	^	TURB IDITY (NTU)	۸	COLOR	ODOR
13:57	 -	 	23.0	4=	6.0	1	12	3_	_		2,9	_	110	E	SICIN	N
 	 	+		-		+		-	 	╄						
		+		+		+	 	-	┼──	╀╌	~;~~~~	-		<u> </u>		
					,	1	 	+	 	 		-	 -			
												-				
		 			,											
				-							-					
	1	+		1		1		-	پجين	<u> </u>						
		i i				+	-	-		_			,			
		- 1			í			* 11 *1								
								1								
	l	1	_L		······································				,	L						
MET'T 61	PACITY (Gall	ans Per Foo	t): 0.78 " = 0.0	2; 1"=1	0.04; 1.2	5" = 0.08;	27 = 0.1	6, 1	-03	7: 👍	- 0.65;	* * =	1.02,	P=1A	17, 12" = 1	7.68 ·
		jan.			المقد			1			<u>, jeling and 41.</u>			بسب	ويبين مخرب أأسهان بهاسي	
SAMPLE	BY (PRINT)		•	SAMPL	SA ERIRI BIG	MPLIN	3 DAT	Α_		P SAN	APLING C	NAME:				
Can	nors !	Jarl. d	4			- ~	<u></u>			-	4-2	14			Ing time: 7:5%	
PUMP OF DEPTH IN	WELL (feet):		•	MATER	AL CODE	_		,		Filtr	D-FILTER	ED	V CAS		FLIERS	ZE:
DUPLICA	TE COLLECTE	:D: Y	0	, d			*		المنسيب			PICE GENERAL SERVICES	i jiya.			
SAM	ple Contain	ar spec	ICATION		BAND	LE PRESE	RVATION	1			NTENDE ANALYSI AND/OR METHOD	•	sau	PLING PMEN COM	T PI	INFLE UNIP LOW ATE
D CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESE US	RVATNE SED	TOTAL ADDED IN	MELD	FIN		,			-		1100	rin(n)
	थ	C6	4am1	HC		-				8	2601	3	L			
	Ţ	d						-			سندب			·		
		-								-						
								- 1						-		
REMARKS	E.											إبيسي				-
MATERIAL	CODES: A	G = Amber C	Nass; CO • 1	Clear Glas	S: PB=	Polyethyle			ypmpy							
Bampling	EQUIPMENT		APP - After	Peristallic I	Pumor	9 - Batter		Blade	der Pun	10:	8 = 8HC	inchie	T = Telle Submers	ide Pu	o = Other (S	pecify)
			RPP = Revi	rise Pick F	enstante F	чиор,	M= Straw	Meth	od (Tut	ing G	ravity Dra	n);	0 = Oh	er (Spe	CHYA	ı

STABILIZATION CRITERIA

pH: ±0.2 units Temperature: ±0.2 °C Specific Conductance: ±5% Dissolved Oxygen: ±0.2 mg/L or ±10% Turbidity: ≤10 NTU or ±10%

SITE	Clouds Ch			-			SITE	Peviore	Street & Tv	va Na	sh Baa	4 0-1		-
WELL	10.	AT 1		•	SAM	PLE ID:	9w-3	2	OUGO! OF 14	10 110	DAT	u, Co.	2-14	ic .
		1											2 17	
WELL		A Tub	il Well Depth	teett 🛕 -	Pl		3 DATA	<u>,</u>			-			
DIAMET	TER (inches) TOLUME PURI	d		SV		I COSTU	CREEN INTE	a	eet TO WA	en he		8 PI.	RGE PLIN	P TYPE
			I APANT .	30	L DEP I F	tete – istati	C DEPTH TO	WATER tes	I) X MEIT	1 Z		/foot		galions
TIME	VOLUME PURGED (gallons)	CUMUL VOLUM PURGEI (gallons	TEMP	1	рн (6 u)	٨	COND (pS)	A	BC (mg/L)	16	TURB	Λ	COLOR	ODOR
10:15		GALILOTS	22.8	1_	5.5		218		2.1		(NTU) 145		0/2	1
							- ,				173		-	11:30
,	 	- 			-		,						-	
-	 	+		+										
			_	+				┼						
				+ +				+		-			-	
								 			-		****	
· · · · · · · · · · · · · · · · · · ·	-	1												
		 	-	+										
	 		+	+-+										
				-										
								7		-		, ,		-
Mift ö	VPACITY (Gui	ons Per Foot	: 0//8" = 0.0	2: 1"=00	1.20	P = 8.06;	2"=0.16	\$ = 0.97	4" = 0.65	Ž* a	1.02;	- 147	12" = 1	T 00
		+ +			·	+				-	·	- 17.		7.25
OALUS EI	BY (PRINT)				SAN	APLING	DATA							1
- 6	amero	~ Was	-lich	2	(B) SIGN	ATURE(6)		;	Sampling C		1	AMPL	NG TIME:	
PUMP UR	YUBING I WELL (feet):			TUBNG				·	PRULPIL YES	SEAT -	V CD		7/5	1712-
DUPLICA	TE COLLECTE	D. Y	0	I WATERIAL	CODE:			<u> </u>	Piltration Equ	pment	ype:		· / / / / / /	
		1						1	NTENDE	D	<u> </u>		T BA	W.L.
<u> </u>	PLE CONTAIN	er specifi	PATION	-	BANPL	e Parier) f		ANALYS AND/OR METHOL		ROUI	PLINO PMENT IDE	P	UMP LOW ATE Vinin)
SAMPLE D CODE	GONTAINER	MATERIA L CODE	AOTAME	PRESERVA USED		TOTAL VI ADDED IN F	min f : PU	H H						
	3	CG	Heml	HCL		<u> </u>	-		826019	3	13		-	
				 										
					- +							· , .	+-	
		1											+	
EMARKS													1	
		- 1					- 1							
	CODES: A		858; CG = 1	Clear Glass;	PB = F	olyethylene	. PP = Pc	hypropyle	re: 8 = Billo	nne	T = Teffo	. 4	• Other (6)	
ANPLIN	equipment		APP - Atter	Peristettic Pun	16 1	a Raller	DO - Die	diam Promi			Submersi		- carrer (6)	hecuA)

STABILIZATION CRITERIA

pH: ± 0.2 unite Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ± 10 NTU or ± 10%

SITE C	Clouds Char	70 D				8	OCATION: T	sylona (Street & Two	Note	h Road	, Col	ımbla, Si	C	
MELLING).				BAMP		1W-32				DATE	4-	1-14		
						,					<u> </u>		 		
WELL		Tobil	/ell Depth (fe	- 2			DATA CREEN INTE		l'avenue			(a. 1 a.			
DIAMETE	R (inches):	<u> </u>		35		DEPTH.	AD feet to	3.5 to	STATIC I	ER (let)		RGE PUM R BAILER:	PTYPE	
METLAG	Lumb Purgi	E A WALL V	DLUME = (T	otal Wei			3.18	WATER feet			enolicg	/loot		galions	
	VOLUME	CUMUL.		T	· · · · · · · · · · · · · · · · · · ·			1		ř	TURB				
TIME	PURGED (gallons)	PURGED (gakens)	TEMP (°C)	^	рН (s u)	^	COND.	^	(uðr) -	^	(NTU)	Δ	COLOR	ODOR	
10:24		(HOROIS)	24.1	-	G.3	_	224	-	2.0	=	383	J	cldy	stran	
						1			- SIV			1	-	7	
			<u> </u>												
_															
-			ļ			Į.	,						,	-	
		4							,						
		,			************	i									
,			1		,										
WELL CA	PACITY (Gallo	na Per Poot):	0.76" = 0.02	t 1" = D	04; 121	P = D.06;	2" = 0.16;	3" = 0.3 "	7; 4" = 0.65;	5" e	1.02;	P = 1A	7, 12°*	5.88	
			· · · · · · · · · · · · · · · · · · ·		1744	, . ,		. / -				, ,		,	
		1	5 <u></u>		SAI	IPLIN	ATAG E	***							
	BY (PRINT)	Warl	èk			はTURE(5 ・ ル/~			BAMPLING T	NTE.			ING TIME: ク・ユイ		
PUMP OR	TUBING			TURNG			- i		PIELD PILTE Filtration Equ	RED	7 2	14	FILTER	size:	
	WELL (feet):	D Y	0	MATERI	ALCODE.		• 		Filtration Equ	pment.	ype				
							1		NTEND	D				WALE	
BAMF	le contain	er specific	ATION		PAMPL	e Prese	NOTAV		Analye And/of		40 0	PLIN(IPMEN ODB		TOM	
	,		yraque i	*****		TOTAL	VAN		METHO	D			1	rate (roin)	
D CODE	CONTAINER	L CODE	AOTAME	PRÉSEI US	ivative Ed	ADDED IN	FIELD	DNAL ph						1	
	2	CG	40ml	HC		•		*	8360E	3		3		-	
			11			1									
	,														
,		-			•				,		,				
REMARKS	1						,			***		·			
MATERIAL	LCODES: A	a Amher Gu	150: DG p	Clear Glas	WE =	Polyethyle	ne: 50 = 6	olyprek)	iene; 8 = Sil	icone.	T = Ten	un.	0 = Other (Roselta	
	BOUPMEN	CODES:	APP - Ater	Peristatic I	Junio.	# Baile		dder Pu		Electric	Submen	ibie F	ma	Oper07)	

STABILIZATION ORITERIA

pH:±0.2 units Temperature:±0.2 °C Specific Conductance: ±5% Dissolved Oxygen:±0.2 mg/L or ±10% Turbidity:≤10 NTU or ±10%

SITE NAME.	Clouds Che	vron					SITE	N Taylo	re s	Street & Tw	o Not	ch Rose	l. Cel	umbia. Si	<u> </u>
WELLN	o. [M)	W-34	3		SAME	LE ID	MW		***********			DATE		-1-1	
	- Anna														
WELL		o I for	Well Depth (f	pot) A	<u>Pl</u>	IRGIN				1 57470	2000		· 1 =		
DIAMET	ER (inches)					DEPTH	CREEN I	n to 3.	fe				6 6	JRGE PUM R BAILER:	PTYPE
Webs V	APAISE LAVE	M: 1 AADT	VOLUME = (35°	(S)	81- 31	I DEPTI	AWOT P	TER) feet)	X WELL	APAC	iTY gallens	/loot	*	gallens
TIME	VOLUME	CUMUL			pH		CON	0		00		TURB			
TUME	PURGED (gallons)	PURGE!	(00)	1	(su)	^	(µS		۸	(mg/L)	۸	(NTU)	^	COLOR	ODOR
10:30			236		5.7	-	121	> -	^	2.7		441		cldy	N
<u> </u>		-		1										7	
	 	 		+	,	 			_			ļ			
	+	 				-			-		-				
	ļ	 			·				_						
		 		1		-									
				1			 	-1+	-	-					••••
	***											1,5			
	جنيحبيا	<u> </u>			· · · · · · · · · · · · · · · · · · ·	<u> </u>	<u> </u>								
METT CV	VPACITY (GAR	ons Per Fool): 0.78" = 0.0	2; 1"=1	0.04; 1.21	l" = 0.06;	2" = 0.1	6. 3"	0.37	4" = 0.65;	5" =	1.02;	F = 1.4	7, 12"=	5.08
-		,			44			1				 			
SAMPLE	PSY (PRINT)			SAMPL	ER(8) SIGN	MPLINI VATURE(S	A.	A		SAMPLING E	ATE:		SAMP	NO TIME:	
	TUBING	· Wa	rlick	100000		~ w		;		4-1-	14			:30	
DEPTH IN	WELL (feet)	<u> </u>		TUBING	MLCODE	-				PIELD-PICTE	Proent	Type		FLTER	ZE
DUPLICA	TE COLLECTE	(O. Y	U	-											
CAM	Ple Contain	i concin	CATION		******	e Press		1		ENTENDE			PLO K		UMP WPLE
					All reconstraints	`≅.Lu\r\ d B	,	<i>}</i>		AND/OR METHO!	ì		PMEN ODE	R	ATB
SAMPLE D CODE	CONTAINER	MATERIA	AOTOME	PAESE	RVATIVE	TOTAL ADDED IN		FINAL					-		Vmin)
D CODE	<u>s</u>	LCODE			EO .	(o)		pH	4	201-	<u></u>		_		
		CG	40ml	1	4			-	+	82601	<u> </u>	 	3_		
					7			ij	1						
								·	1						
REMARKS	<u> </u>	<u> </u>		L				4	اند			<u> </u>			
			, l					-							
براء برخانسان المتعدد	l codes A G Equipment		APP - After	Clear Glas		Polyetnyle		= Polyp				T = Tell		o = Other (S	ipecity)
	- CHVIPPEN	· + + + + + + + + + + + + + + + + + + +	RPPP = Rev	erse Flow	rump; Penataliic P	B = Baller ump, E	M = Syar	Bladder Method	Pum (Tub	ip; ESP = 1 ling Gravity Circ	Electric I'n),	Submers 0 = QH	ible Pu er (Spi	mg icity)	

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

NAME:	Libura Ci	******					SITE	+						
WELL	Ciouds Ci	A self models of					OCATION T	sylore :	Street & Tw	ro No	ch Ros	d, Co	lumbia, S	C
AEPP	10	- 2 m n			SA	MPLE ID: N	1w-25	3			DAT	E 4-	1-14	
							5 DATA							
VELL.		O TO	zi Well Depth	(feet) oc		PURGING	CREEN INTE	DVAI	074710				·	
PELL	TER (inches) YOLUMA PU R	OE I WELL	. VOLUME :	COTALW	EIL NES				et TO WAT	ER (fe	7 2/. 3 51):	15 P	URGE PUM R BAILER:	PT
				35		feet- Q)	, 35	WATER)	× O'	APAC [s/foot	•	98
TIME	VOLUME PURGED (gallons)		E TEMP	٨	gH (SU)	^	COND. (µS)	1	DO (mp/L)	٦	TURB	A	COLOR	0
33			24:	2 =	3.8		197		1.8		(NTU)			L,
							117		X	二	50/		ckly	L
					-									L
		<u> </u>	_									-		-
	+	1 ,												_
	 	-												
	1		+											
				 	متبح حد			17.35-36		-				
						1 .			-			-		7
-														
-	-	-						1 ** 1 4		-	-	-1		-
		-						9						-
T 0\	IPACITY (Gall	ons Per Foot	0.76* + 0 1	10 av - n					البيانيات	باسيسا				
			. 444	343 T	ANG TA	er = 0.05;	2" = 0.16; 4	= 0.37;	4" = 0.65;	B* =	1.02;	= 147	121 + 6	.89
, -							_	- 037;	4" = 0.68;	B* -	1.02;	= 14)	12***	.69
PLE	SEY (PRINT)				SA	MPLING	DATA							.68
PLEI	BY (PRINT)			EAMPL	SA R(S) BIG		DATA		4" = 0.68; SAMPLING D. 4/ -/ -/	AYE:		AMPU	NG TIME:	.69
PLEI POR IM IN	GM CAP TUBING WELL (rest)	, Wa		SAMPLE TUBING	SA R(S) BIG	MPLING	DATA		Sampling di 4/-/-/	AYE:		AMPU		
PLE	GM CAP	, Wa		SAMPLE TUBING	SA R(S) BIG	MPLING	DATA		SAMPLING D. 4-1-1	AYE:		AMPU	NG TIME	
PLEI POR TH IN	GM CAP TUBING WELL (rest)	n Wa	lick	SAMPLE TUBING	SA ER(S) BIG AL CODE	MPLING	DATA		SAMPLING D. 4 - / - / IELD-FILYER Rivetion Equip RYTENDER ANALYSI	ATE: 4	ype (C)	PLING	NG TIME:	Ze.
PLEI POR TH IN LICA	OBY (PRINT) TUBING WELL (rest). TE COLLECTE	n Wa	lick	CAMPLI TUBING MATERI PRESER	SA ER(S) SIG AL CODE BAND	MPLING	DATA ATION FIN		SAMPLING D. 4'-'-'/ GLD-FILTER Totalion Equip	ATE: 4	ype (C)	JO	NG TIME:	ZE WWW.
PLEI POR HIN JOA	GEY (PRINT) G. M. S. A. P. TUBING WELL (rest): TE COLLECTE LE CONTAIN	MATERIA LOODE	PATION VOLUME	SAMPLI TUBING MATERI PRESER USE	SA ERIS) SIG AL CODE SAMP NATIVE ED	MPLING NATURE(S): V TOTAL VC ADDED IN R	DATA		SAMPLING D. 4 - / - / IELD FIL YER RIVERON EQUIP NTENDER ANALYSII ANE/OR METHOD	ATE: 4	ype (C)	PLING	FILTER S	Ze.
PLEI POR HIN JOA	GEY (PRINT) G. M. C. P. TUBING WELL (rest): TE COLLECTE LE CONTAINER E. S.	Wa DER SPECIFIC	lick Operation	CAMPLI TUBING MATERI PRESER	SA ERIS) SIG AL CODE SAMP NATIVE ED	MPLING NATURE(S): V TOTAL VC ADDED IN FI	DATA ATION FIN	1	SAMPLING D. 4/-/-/ IELD FILTER ITYRION Equip INTENDED ANALYSII	ATE: 4	ype (C)	PLANO PLANO	FILTER S	ZE.
PLEI POR HIN JOA	GEY (PRINT) G. M. C. P. TUBING WELL (rest): TE COLLECTE LE CONTAINER E. S.	MATERIA LOODE	PATION VOLUME	SAMPLI TUBING MATERI PRESER USE	SA ERIS) SIG AL CODE SAMP NATIVE ED	MPLING NATURE(S): V TOTAL VC ADDED IN R	DATA ATION FINE	1	SAMPLING D. 4 - / - / IELD FIL YER RIVERON EQUIP NTENDER ANALYSII ANE/OR METHOD	ATE: 4	SAM BOUT	PLANO PLANO	FILTER S	Ze.
PLEI POR HIN JCA	GEY (PRINT) G. M. C. P. TUBING WELL (rest): TE COLLECTE LE CONTAINER E. S.	MATERIA LOODE	PATION VOLUME	SAMPLI TUBING MATERI PRESER USE	SA ERIS) SIG AL CODE SAMP NATIVE ED	MPLING NATURE(S): V TOTAL VC ADDED IN R	DATA ATION FINE	1	SAMPLING D. 4 - / - / IELD FIL YER RIVERON EQUIP NTENDER ANALYSII ANE/OR METHOD	ATE: 4	SAM BOUT	PLANO PLANO	FILTER S	Ze.
PLEI POR TH IN LICA	GEY (PRINT) G. M. C. P. TUBING WELL (rest): TE COLLECTE LE CONTAINER E. S.	MATERIA LOODE	PATION VOLUME	SAMPLI TUBING MATERI PRESER USE	SA ERIS) SIG AL CODE SAMP NATIVE ED	MPLING NATURE(S): V TOTAL VC ADDED IN R	DATA ATION FINE	1	SAMPLING D. 4 - / - / IELD FIL YER RIVERON EQUIP NTENDER ANALYSII ANE/OR METHOD	ATE: 4	SAM BOUT	PLANO PLANO	FILTER S	ZE.
PLE POR	TUENG WELL (CON). TO COLLECTE LE CONTAIN CONTAINER S	MATERIA LOODE	PATION VOLUME	SAMPLI TUBING MATERI PRESER USE	SA ERIS) SIG AL CODE SAMP NATIVE ED	MPLING NATURE(S): V TOTAL VC ADDED IN R	DATA ATION FINE	1	SAMPLING D. 4 - / - / IELD FIL YER RIVERON EQUIP NTENDER ANALYSII ANE/OR METHOD	ATE: 4	SAM BOUT	PLANO PLANO	FILTER S	ZE.
POR IN LICA	TUENG WELL (CON). TO COLLECTE LE CONTAIN CONTAINER S	MATERIA LOODE	PATION VOLUME	SAMPLI TUBING MATERI PRESER USE	SA ERIS) SIG AL CODE SAMP NATIVE ED	MPLING NATURE(S): V TOTAL VC ADDED IN R	DATA ATION FINE	1	SAMPLING D. 4 - / - / IELD FIL YER RIVERON EQUIP NTENDER ANALYSII ANE/OR METHOD	ATE: 4	SAM BOUT	PLANO PLANO	FILTER S	ZE.
PLEIC PORT ON THE PROPERTY OF	TUENG WELL (CON). TO COLLECTE LE CONTAIN CONTAINER S	ER EPEGIP	Joseph Volume 40 mail	SAMPLI TUBING MATERI PRESER USE	SA ER(S) SIG ALCODE SAMP	MPLING NATURE(S): V TOTAL VC ADDED IN R	DATA ATION FINE		SAMPLING D. 4 - / - / ELD-FILTER RIVETON EQUIP ANALYSII AND/OR METHOD 8260 3	AYE.	SAM BOUT	PLING MENT	FILTER S	

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Distributed Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ± 10 NTU or ± 10%

SITE NAME:	Clouds Ct	nevron	**************************************		************	1	BITE							
WELLN	O: -				SA	MPLE ID:	LOCATION:	1 Sylors	Street & Ty	O NO	ICH ROE	id, Co	lumble, S	C
												4	-1-14	
WELL DIAMET	ER (inches)	7	otal Wall Depti		5	WELL	G DATA SCREEN INTI AO feet to	.2.5	STATIC TO WAT	DEPT	H. 22.8	7415	VRGE PUN OR BAILER:	JAYT G
*******	ACOUST LOS				VEIT DEPT	H - STAT	IC DEPTH TO	WATE!	?) X WELL	CAPA	ITY	is/feet		pallon
TIME	VOLUME PURGED (gallions)	VOLU PURG (gallo	ME TEMP SED (°C)	^_	p)4 (su)	۸	COND (LS)	٨	CO (mg/L)	1	TURB IDITY (NTU)	٨	COLOR	CDO
10:19		#=	2.3.4	4-	5.9		220	-	2.6	E	86	, —	SICIAY	Sligh
<u> </u>									,					
				1										
		1-25					74							
												· -		7,2 -
Ca PO EMI EPTH IN I	BY (PRINT) M & // M TUBING WELL (itsel): E COLLECTE	•	lick (4)	TUBING	ER(S) SIG	MPLING	-		SAMPLING D.	1			7. 12" - 8 ING TIME : 19 FILTER 8	,
SANP)	e Contain	er epscu	IOATION	Ą	MAN	i Preder	/ATION		ANALYSI ANALYSI ANDOR METHOD	,	BOU	PLINO PARNI NOS	PU	TE MP DW TE
CODE	CONTAINER 6	MATERIA L CODE	Aofrive	Ųš	NVATIVE ED	TOTAL VI ADDED IN F	Pin I To	IÁL H					(6)	m(m)
	2	Cq_	Almi	HCI				•	8.260B		B			
1			-											
MARKS	, , , , , , , , , , , , , , , , , , ,									\exists				
Terul (Mpling i	COSS AC	- Amber (Jass; CG = APP = After RIPP = Rev	Clear Glass Peristanic P	1000	olyethylene B = Baller;	P a Stade	ar Pume		retele 6	r = Tellor		• Other (Sp	eily)

STABILIZATION CRITERIA

pH: ±02 units Temperature: ±02°C Specific Conductance: ±5% Dissolved Oxygen: ±0.2 mg/L or ±10% Turbidity: ±10 NTU or ±10%

SITE NAME:	Clouds Che	vren				T	SITE OCATION	Taylors	Stre	et & Two	o Not	ch Rose	i. Co	lumble, S	c
WELLNO					SAMI	PLE ID:						DATE	4-	1-14	
	r				Di	10011			<u> </u>						
WELL		Töta	Well Depth (fe	(el) 0 5		WELLS	S DATA	ERVAL	_	STATIC	DEPTH	22.2	Цlр	URGE PUM	D TVOG
DIAMETE WELL VO	R (inches). LUME PURG	E TWELL	VOLUME = (TOTAL WEI		DEPTH	20 tenti	n 9.5 i	eet	TOWAT	ER (fet	et):		R BAILER:	ir stru
			- (35	fe	et-	IO PEPIN (fee		WELL	APAC	gallom	/foot	•	gallons
TME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	(°C)	٨	8H (\$U)	Δ	COND. (µS)	٨		DO (mg/L)	٨	TURB IDITY (NTU)	٨	COLOR	ODOR
:25			23.6	-	4.9		127	F	1	60	-	301	Ξ	chy	Sligh
								-							
		ŀ			,			1	F						
									F						
	,										7				
		,								,					'
													, <i>/-</i>		
WPLEO	PACITY (Galic BY (PRINT)	Wal.			SAI		DATA		1 SA)	WHUNG C	ATE		SAMP	LING TIME:	
MP OR	TUBING WELL (1991): E COLLECTE	1		TUBING MATERY	LCOSE				FE	D-FILTER Bion Equi	(60)	Type:	(()	FLIER	oke.
SANT	LE CONTAIN	er specific	PATION	1.	east 1	a Presei	NATION	1		ENTENDE ANALYS ANDADR ANDADR SHTHOL		EOU	PLINI PMEI ODE	D P	WALE UMP LOW LATE (Vin(n)
CODE	CONTAINER S	MATERIA L COBE	AOTAME	Preser USE	5	TOTAL ADDED IN	FIELD	FIXAL pH				'			tearroot_
	2	(6	41mL	H		-				8261	3	Y	2_		
=	, , , , , , , , , , , , , , , , , , ,			-								-			
VARKS															
TERIAL	CODES: AC	a - Amber G	lass; CO = C	iear Glass;	P3 =	Polyethyler	10; FP a	Polypropy	ARTIC:	a = Sill	ions.	T = Teff	ñn:	O = Other (I	Maria.
	EQUIPMENT		APP = Atter	eristatic P	unic.	B = Bailer	BP = B	lerider Chi	MA'	200 - 2	in chris	Submers	ible P	mp	yer πλ)

STABILIZATION CRITERIA

pH:±0.2 units Temperature:±0.2 °C Specific Conductance: ±5% Dissolved Oxygen:±0.2 mg/L or±10% Turbidity:≤10 NTU or±10%

	Clouds Chev	70N					BITE LOCATION	Tay	dors S	Street & Two	Note	h Road	, Col	umbia, Si	5
METTHO		-1			SAMP							DATE		- 1.14	
	•	, , , , , , , , ,			D)		0 047			,		~,			
WELL		Tetal	Well Depth (fe	et) ac		WELL	G DAT	TEN	/AL	STATIC	EPTH		. I pi	JPGE PUM	TYPE
DIAMETE	R (inches)				L DESYH	DEPTH	:10 fee	t to S	S fe	et I TO WATE	R (fee	7.6	O	R BAILER:	
		. , , , , , , , , , , , , , , , , , , ,	= {	35		st~			feet)		re-myl	gallons	/foot	•	gallons
TME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallors)	TEMP (°C)	A	pH (60)	i a	CON!		٨	ĐƠ (mg/L)	٨	TURB IDITY (NTU)	۸	COLOR	ODO
//:35			24.7	_	4.8	-	118			3,2		198	-	clan	N
														1	
			 	 _	-	<u> </u>	ļ								
			+		······································	 	-								
			1				1								
														,	
		,								, , , , , , , , , , , , , , , , , , ,					
				-			ļ		-						
			4				 								
		, ,,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, 	-			H	1	+				<u> </u>		,	
-1								\Box							
									i,		_	_			
AMPLEC	BY (PRINT)	ľ		SAMPLE			G DAT	A	' 1	12		7	-	 	
	•	11.)	-	- L	3):			SAMPLINGE	ATE.		SAMP	LING TIME	-
UMP OR	TURING	War	-26	TUBING		- ~	9):			WELD-FLIE	14	V - N	SAMP	LING TIME: /:35 FILTER	-
UMP OR SEPTH IN	TUEING WELL (feet): E COLLECTE!	71		TUBING MATERIA	LCODE:	- W				4-1-	14	V - N	SAMP	1:35	-
UMP OR EPTH IN EUFLICAT	TURING WELL (feet):	y	0		-	- W	RVATION			WELD-FLIE	14 pment pment	Type:	SAMP PLINI IPMED	FILTER	SIZE SOLE SUMP LOW LOW
UMP OR EPTH IN EUFLICAT	TUEING WELL (feet): E COLLECTE!	y	0	MATERIA PRESER USI	SAMPI VATIVE ED	- ~	ERVATION VOL N FIELD	FIN		MELD-FLTE Filtration Equi MTRNOE ANALYE AND/OF	14 pment pment	Type:	PLINI PME	FILTER	SIZE SOLE VAP LOW LOW
EAMPLE CODE	TURING WELL (feet) TE COLLECTE	D V	ATION	MATERIA PRESER USI	EAMP!	TOTAL ADDED (M	ERVATION VOL N FIELD			MELD-FLTE Filtration Equi MTRNOE ANALYE AND/OF	PEO pmert	Type:	PLINI PME	FILTER	SIZE SOLE VAP LOW LOW
SAMPLE CODE	TUEING WELL (feet) TE COLLECTE PLE CONTAIN GONTAINER E	ER SPROIFIC MATERIA L'OOSE	ATION VOLUME	MATERIA PRESER USI	SAMPI VATIVE ED	TOTAL ADDED (M	RVATION WOL N FIELD	, ph		MIELD-FELTE Fürelign Equi MIENDE ANALVE AND/OF METHO	PEO pmert	Type:	PLIN IPMED	FILTER	SIZE WAP LOW LOW LOW LOW LOW LOW LOW LOW LOW LOW
UMP OR EPTH 6N UPLICATE BAMP BAMPLE	TUEING WELL (feet) TE COLLECTE PLE CONTAIN GONTAINER E	ER SPROIFIC MATERIA L'OOSE	ATION VOLUME	MATERIA PRESER USI	SAMPI VATIVE ED	TOTAL ADDED (M	RVATION WOL N FIELD	, ph		MIELD-FELTE Fürelign Equi MIENDE ANALVE AND/OF METHO	PEO pmert	Type:	PLIN IPMED	FILTER	SIZE WAP LOW LOW LOW LOW LOW LOW LOW LOW LOW LOW
SAMPLE CODE	TUEING WELL (feet) TE COLLECTE PLE CONTAIN GONTAINER E	ER SPROIFIC MATERIA L'OOSE	ATION VOLUME	MATERIA PRESER USI	SAMPI VATIVE ED	TOTAL ADDED (M	RVATION WOL N FIELD	, ph		MIELD-FELTE Fürelign Equi MIENDE ANALVE AND/OF METHO	PEO pmert	Type:	PLIN IPMED	FILTER	SIZE UNP LOW LATE IVAIN
EAMPLE O CODE	TUEING WELL (feet) E COLLECTE LE CONTAIN GONTAINER S 2	ER SPROIFIC MATERIA L'OOSE	ATION VOLUME	MATERIA PRESER USI	SAMPI VATIVE ED	TOTAL ADDED (M	RVATION WOL N FIELD	ph		MIELD-FELTE Fürelign Equi MIENDE ANALVE AND/OF METHO	PEO pmert	Type:	PLIN IPMED	FILTER	SIZE UNP LOW LATE IVAIN
SAMPLE CODE	TUEING WELL (feet) E COLLECTE LE CONTAIN GONTAINER S 2	ER SPROIFIC MATERIA L'OOSE	ATION VOLUME	MATERIA PRESER USI	SAMPI VATIVE ED	TOTAL ADDED (M	RVATION WOL N FIELD	ph		MIELD-FELTE Fürelen Equi MIENDE ANALVE AND/OF METHO	PEO pmert	Type:	PLIN IPMED	FILTER	SIZE UNP LOW LATE IVAIN
EAMPLE CODE	TURING WELL (feet) PLE CONTAIN CONTAINER S	ER SPROIFIC MATERIA L'OOSE	CATION VOLUME	MATERIA PRESER USI	EAMPI VATINE C. L.	TOTAL ADDED (M	WOL N FIELD	ph		PIED-FETE Fibration Equi extende ANALYE AND/OF METHO!	/4 PEO pment B	Type:	PLINED ODE	FILTER	SIZE

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

AME	Clouds Che	vron				SITE LOCATION TO	aviors 8	Street & Tw	a Note	h Rose	l Co	lumbia Si	•
VELL N	o (M	w-39		9	AMPLE ID:	EUCATION.				DATE		-2-/	
			•		PURGIN	G DATA	,						
VELL NAMETI	ER (inches) CLUME FURG		Well Depth (fo	et): 35 OTALWELL DE	WELL DEPTH PTH - STA	SCREEN INTER	15 %	STATIC TO WAT	ER (fee	()	9 6	urge pum R Bailer:	YPE
		CUMUL	- (35	feet-		feet	X		gallore	//oot	•	gállons
TIME	VOLUME PURGED (gallons)	VOLUMI PURGEI (galions	TEMP (°C)	A pH (su) ^	COND. (µS)	٨	(mg/r) DO	٨	TURB IDITY (NTU)	۸	COLOR	0001
:/3			23.6	- 5	9 -	49	-	1.4	1	88	-	SICIAY	Slig
				, .									
						, , ,	, ,						
ندسب بخشیری		i i											
					,							,	······································
							3					·	
MP OF	OBY (PRINT) AME 10 TUBING WELL (feet):	, a 4	a _c lick	SAMPLER(S)	- W	G DATA		SAMPLING (UNG TIME:	
					Lile.		- t -	FELD FILTE		V N		FILTER S	26
PLICA	TE COLLECTE	D Y				FELD-FILTE Fibration Equ		y N Type:			IKE:		
*	PLS CONTAIN		CATION		MPLE PRESE	RVATION	1		pmert D	eA!	PLIN PMEN ODS	PLYERS	MPLII UMP LOW ATE
PLE CODE	PLE GONTAIN CONTAINER S	er epecif Materia LCODE	CATION	Preservative USED	MPLI PRESE	VOL P	NAL.	Printing Equi	pmert D	eA!	PLIN	PLYERS	MPER UNIP LOW
PLE	PLE CONTAIN	ER SPECIF	KGITAS	PRESERVATIVE	MPLE PRESE	VOL PI		Printing Equi	pmert	SAL SQU	PLIN	PLYERS	MAPER UMP LOW ATE Voting
PLE ODE	PLE GONTAIN CONTAINER S	er epecif Materia LCODE	CATION	Preservative USED	TOTAL ADDED IN	VOL PI	H	Pibalon Equ INTERDI ANALYS ANDIO METHO	pmert	SAL SQU	PLIN PMEN ODS	FILTER S	MPLE JNP LOW ATE (min)
	CONTAINER S	er epecif Materia LCODE	CATION	Preservative USED	TOTAL ADDED IN	VOL PI	H	Pibalon Equ INTERDI ANALYS ANDIO METHO	pmert	SAL SQU	PLIN PMEN ODS	FILTER S	MPLE JNP LOW ATE (min)
SAM WPLE CODE	CONTAINER S	er epecif Materia LCODE	volume 40m/L	PRESERVATIVE USED H.C.U.	TOTAL ADDED IN	VOL PI	H	Pibration Equi	pment .	SAL SQU	PLIN PAGE	FILTER S	MPER JMP LOW ANTE Malini

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

SITE	Clouds Che	LEON .			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.5	ITE							
397-1000-11		116					OCATION:	Taylors	Street & Tw	ro Nat	ch Rose	i, Colu	mbla, S	C
MELTIN	U:	W-71	<u> </u>		SAMPLE	iO:					DATE	4-	2-14	•
					PUR	GING	DATA							
WELL		Tot	al Well Depth (f	·et) 3.5	Ĭ	WELL S	CREEN IN	PERVAL	STATIC	DEPTH		e PU	RGE PUM	P TYPE
WELLY	ER (inches) CLUME FURG	E: 1 WELL	AOLUME - (DEPTH -	DEPTH:	20 feet	to 25 f	BOT TO WAY	TER (fe	4)45.i	7 OR	SAILER:	
			= (35	feet-			fee	t) ×			Moot =	,	gallons
TIME	VOLUME	COMO	E TEMP	^	рн	A.	COND		DO	T .	TURB			
	(enolisg)	PURGE (galign	0		(su)		(µS)	^	(mg/L)	^	(NTU)	^	COLOR	ODOR
12:18	-	-	23.0		6.0	-	154	-	21		245	-	cloh	Y
	+	+						_					0	
	 	1		 					 			1		
		1		 						-				
								_		-				
						į		3						
					-									
***************************************	-					<u>, , </u>	· · · · · · · · · · · · · · · · · · ·				į			
	1	 								-		-		
			· ·	 				-						
7.1							***********	1				-		
	PARTY (GRI		0.75* 0.0	2: 1" = 0.04	SAMP	LING	DATA	į	7. 4" = 0.65:		, , ,		12" = 1	5,89
BINDA	GOOD CO	- 4/a	lick			w			4 - 2			12		
DEPTH IN	WELL (feet):			TURING MATERIAL	CODE:				Filtration Equ	RED: Ipment	Y N Type;		FILTER	SIZE"
DUPLICA	VE COLLECTE	D. Y	0	,				,					, , , , , , , , , , , , , , , , , , , 	,
	PLE CONTAIN		IDATION		BAMPLE P	,			ANTENIN ANALYE AND/OI METHO	1# R	BOU	PLING PMRHT DDN	Pi Pi	UMP LOW ATS Indin)
D CODE	CONTAINER 8	MATERIA L GODE	VOLUME	Preserva USED	A	TOTAL V DED IN I	FIELD	FINAL pH						
	2	CG	40ml	HU		-			8260	B		3		2007
					_									
							-	-						
									-				-	
4, 1									in. 4				+-	
REMARKS	3	4	-			7700					'	 		
MATERIA	LOODER	G = Amber	Plane MA - /	Clear Glass:	MA - Park			Í.						
	G COUPMENT		APP = After!	Peristallic Pur	PR = Pol	Raller		Polypropy il add er Pur			T = Tello Submers		= Other (S	pecity)
	-		RFFF = Rev	ree Flow Perl	italic Pump), 8	n = Svaw h	vetnod (Tu	bing Gravity Dr.	in);	O a Oth	er (Spec	Ϊý	1

STABILIZATION CRITERIA

pH:±0.2 units Temperature:±0.2 °C Specific Conductance: ±5% Dissolved Caygen:±0.2 mg/L or ±10% Turbidity:≤10 NTU or ±10%

TE Clouds C	5.5				S	ITE OCATION: 7	aylors :	Street & Tv	ro Note	h Ros	d, Cel	umble,	sc
ELLNO.	WATT!			SAMP	LE ID					DATI	Υ.	-1-1	4
				PU	RGING	DATA							
'ELL AMETER (Inches) ELL YOLUME PU	1		OTALWEL	LDEPTH	DEPTH:	CHEEN INTE 20 teet to CDEPTH TO	35 te) X WELL	DEPTH TER (fee CAPAC)	(t): 人 7・ /	0 0	urge pu R Baler	
	CUMUL	e (<u> 35</u>	fet	t-		feet) X	.,	gation	s/foot	*	gallons
TIME PURGE (gallen	E VOLUME D PURGED	TEMP	٨	рн (80)	۸	COND.	۸	(mg/L)	٨	TURB IDITY (NTU)	٨	COLOR	0008
.24 -	• -	249	-	6.9		321	-	2.7	-	401	-	cidy	818
					1								
		- 					-		+-	-	╁		-
							1	· ·					
							* E	1					
									-				
				*****			1						,
	fi 7	-											
ELL CAPACITY (); 9.78" = 0.0;	· · · · · · · · · · · · · · · · · · ·	SAI	MPLIN	DATA	- 1	·		1.02;			
WPLED BY (PRIN	on Was	-lick		HIS SICE	NATUREIS W_		,	SAMPLING	1-19		SAMF	ING TIM	2
IMP OR TUBING 19th in Well (fe 19LICATE COLLE		(N)	MATERI	CODE			· · · · · · · · · · · · · · · · · · ·	Filtration Ed	mbweu EKED	Type:		FETE	REZE
BAMPLE CONT				SAMPI	LE PRESE	NVATION	1	ANALY AND/ METH	BIS DR	10	MPLIN CODE		PUMP FLOW RATE
AMPLE CONTAIN	ER MATERIA LCODE	VOLUME	PRESER	VATIVE	ADDED IN	FIELD	PINAL			1			(m/min)
- 2	C6	40ml	H					826	112		Ø		
		ì			-					$oldsymbol{ol}oldsymbol{oldsymbol{oldsymbol{ol{ol}}}}}}}}}}}}}}}}}$			
,			_		1		1		'				
,	·				 			1		-			· · · · · · · · · · · · · · · · · · ·
EMARKS:							-						

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ± 10 NTU or ± 10%

	ouds Chev	ron			AT 4 6 7		ITE OCATION: T	aylors !	Street & Tw	ro Note			ımblə, S	C
WELLN					SAMP	LE ID:					DATE	4-	1-14	
					PU	RGING								
VELL DAMETER		Total V	Veil Depth (fe	_		DEPTH.	CREEN INTE	3.5 fe	et TOWAT	DEPTH IER (ICE CAPACI			RGE PUM BAILER:	P TYPE
			a (35	fee		- DEPTH IC	feet		CAPACI		/foot	•	gallon
TIME	VOLUME PURGED (QBIIONS)	CUMUL: VOLUME PURGED (gallors)	TEMP (°C)	۸	pH (su)	4	COND (µS)	۸	(watr) DO	^	TURB IDITY (NTU)	۸	COLOR	000
:56	~		24.7		4.8	-	75	-	2.9	-	108	-	clay	W
						ì								
									,					
							À						·	
														1
							-							
	AREV (Calla	na Mar Barot	10 No. 10 A A			7-222	AT D. AC.							
	AOITY (Gallo BY (PRINT)	ns Per Point			SAI	APLING	DATA	5-83	7; 4" = 0.65	DATE:		SAMP	7, 12" =	
AMPLEO I	BY (PRINT) TUBING WELL (lest):	Wa.	0.78" = 0.02		SAI R(S) SIGN	APLING	DATA	5-83	SAMPLING	DATE:	7	SAMP		-
MPLEO I	BY (PRINT)	Wa.		SAMPLE	SAI R(S) SIGN	APLING	DATA	7-03	SAMPLING F(ELD-PLT) F(Elb-stion Eq	DAYE: /-/ RED: ulpment	7	SAMP	ING TIME SZ FILTER	SINE:
IMPUED I	BY (PRINT) TUBING WELL (test): F COLLECTE	Wa.	lich (D	SAMPLE	SAI R(S) SIGN	APLING ATURES	DATA LLL (VATION	5-03	SAMPLING FIELD-PLT	DATE: / -/ RED: upment 80 813	Type:	SAMP	ING TIME	SIZE:
AMPLEO I	BY (PRINT) TUBING WELL (test): F COLLECTE	Wa.	lich (D	SAMPLE	SAI RESISION L CODE	APLING VATURE(S) VATURE(S) VATURE(S)	DATA IVATION REL FIELD	5" = 0.3	SAMPLING FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI	DATE: / -/ RED: upment 80 813	Type:	SAMPLING	ING TIME	SIZE:
AMPLEO I	BY (PRINT) TUBING WELL ((est): F COLLECTE LE GONYAIN	O V	lich (N) Attion	SAMPLE TUBING MATERIA PRESERI	SAI RESISION L CODE	MPLING MATURE(S)	DATA EVATION FIELD	TINAL	SAMPLING FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI FIELD-PILTI	DATE: //-/ PRED: ulpment sis sis sis	Type:	SAMPLING	ING TIME	SIZE:
AMPLED I	EY (PRINT) TURING WELL ((SEIL): F COLLECTE GONTAINER GONTAINER	O: Y ER SPECIFIC MATERIA LGODE C.G.	ATION VOLUME	SAMPLE TUBING MATERIA PRESERI	SAJ RISTSIGN L CODE LAMPL VATIVE	APLINC VATURE(S) VOTAL ADDED IN	DATA EVATION FIELD	TWAL	SAMPLING FIELD-PLT FIEVERION EQ OTTEND ANALY AND/S WETHE	DATE: //-/ PRED: ulpment sis sis sis	Type:	SAMPL // , MPLING RPMEN CODE	ING TIME	SIZE:
AMPLED I	EY (PRINT) TURING WELL ((SEIL): F COLLECTE GONTAINER GONTAINER	O Y ER SPECIFIC MATERIA LGODE C.G.	ATION VOLUME	SAMPLE TUBING MATERIA PRESERI	SAJ RISTSIGN L CODE LAMPL VATIVE	APLINC VATURE(S) VOTAL ADDED IN	DATA EVATION FIELD	TWAL	SAMPLING FIELD-PLT FIEVERION EQ OTTEND ANALY AND/S WETHE	DATE: //-/ PRED: ulpment sis sis sis	Type:	SAMPL // , MPLING RPMEN CODE	ING TIME	SIZE: PUMP FLOW RATE RIVINIO)
AMPLEO	EY (PRINT) TUBING WELL ((cet): F COLLECTE CONTAINER S 2	O: Y ER SPECIFIC MATERIA LGODE C.G.	ATION VOLUME	SAMPLE TUBING MATERIA PRESERI	SAJ RISTSIGN L CODE LAMPL VATIVE	APLINC VATURE(S) VOTAL ADDED IN	DATA EVATION FIELD	TWAL	SAMPLING FIELD-PLT FIEVERION EQ OTTEND ANALY AND/S WETHE	DATE: //-/ PRED: ulpment sis sis sis	Type:	SAMPL // , MPLING RPMEN CODE	ING TIME	SIZE:

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

ELL NO:		-				CATION	. layı	018 6	ireet & Tw	Noic	DATE	, Coll	anoia, St	<u> </u>
				SAMPL	E (D:							4-	2-14	
				PU	RGING	DAT	A							
ELL AMETER (inches)		Well Depth (fee	70)	WELL S	REEN IN	TERV	O tes	STATIC TO WAT	ER (fee	1): 14,0		irge pumi R Baler:	TYPE
EL VOLUME PU	KOB: A MELL A	OLUME - (TC	TALWEL U H	T DEPTH	- STATI t-	C DEPTH	TOW	ATER) feet)	X MEIT (APACI	gallons	/foot	•	gallons
TIME YOLUM PURGE (gallons	D PURGED	TEMP (°C)	۸	pH (su)	^	(mg)	2.	٨	(mg/L) DC	^	TURB IDITY (UTU)	۸	COLOR	ODOF
1:38 _		264	-	4.7	-	12	7	-	3.6	_	55	-	(Ic	N
							-					_		
		-			,		\dashv			┼─-				
		+					_			 				
						7								
	1													
-				· ·	ļ					 		_		
				-	1		-+			1-7-		-	 	
		-			-	+	\dashv			+-				
		1				-			, , , , , , , , , , , , , , , , , , , ,					
		1 2			1			u G						
-	I.				1					<u> </u>		<u> </u>	<u> </u>	
AMPLEO BY (PRI			SAMPL		MPLIN				· · · · · · · · · · · · · · · · · · ·	-		,1		<u>2 17</u> 1.
Camero	1 201	ick		2	NATURE (A -		SAMPUNG 4-2	14		SAMI	UNG TIME	
EPTH IN WELL (TO	set):	,	YUBING		NATURE		÷			14 ERED	t Type:	SAMI	CNG TIME 4;27 PLTER	
UMP OR TUBING DEPTH IN WELL (II DUPLICATE COLLE	set):	0	YUBING	ALCODE	NATURE				4-2	ERED WIDTH OR OR	SA SQ	SAMI) MPLII UIPNE CODE	HICTER	SIZE AMPLI FUMP FLOW RATE
UMP OR TUBING EPTH IN WELL (IT EPTH IN WELL (IT EAMPLE CONTENTS EAMPLE CONTENTS	HOI): ECYED: Y TAINER EPEOIR	0	TUBING	ALCODE	LE PRESI	RVATION			FIELD-FILT Fittration Ed NYEWI ANALY AND	ERED WIDTH OR OR	SA SQ	MPLO	HICTER	SIZE AMPLI FUMP FLOW RATE
SAMPLE CONTAINS SAMPLE CONTAINS CODE CONTAINS	eel): ECTED: Y TAINER EPEOIR	CO	TUBING MATER MATER	BAND BAND	LE PRESI	RVATION	FIN		FIELD-FILT Fittration Ed NYEWI ANALY AND	14 Lipmen Sis Sis OD	SA SQ	MPLO	HICTER	SIZE AMPLI FUMP FLOW RATE
SAMPLE CONTAINS SAMPLE CONTAINS CODE CONTAINS	EETED: Y TAMER EPEOM NER LCODE	VOLUME	TUBING MATER MATER	BAND BAND BRIATIVE SED	LE PRESI	RVATION VOL N FIELD	FIN	H	FIELD-FILT Filtration So INTERN ANDA METH	14 Lipmen Sis Sis OD	SA SQ	MPLE UIP NE CODE	HICTER	SIZE AMPLI FLOW FLOW RATE
SAMPLE CONTAINS SCOOLE COOLE C	EETED: Y TAMER EPEOM NER LCODE	VOLUME	TUBING MATER MATER	BAND BAND BRIATIVE SED	LE PRESI	RVATION VOL N FIELD	FIN	H	FIELD-FILT Filtration So INTERN ANDA METH	14 Lipmen Sis Sis OD	SA SQ	MPLE UIP NE CODE	HICTER	SIZE AMPLI FLOW FLOW RATE
SAMPLE CONTAINS SCOOL CONTAINS	TAMEN EPEON TAMEN EPEON NER LCODE C.G.	VOLUME	TUBING MATER MATER	BAND BAND BRIATIVE SED	LE PRESI	RVATION VOL N FIELD	FIN	H	FIELD-FILT Filtration So INTERN ANDA METH	14 Lipmen Sis Sis OD	SA SQ	MPLE UIP NE CODE	HICTER	SIZE AMPLI FLOW FLOW RATE
UMP OR TUBING MEPTH IN WELL (IN DIPLICATE COLLE SAMPLE D CODE 2	TAMEN EPEON TAMEN EPEON NER LCODE C.G.	VOLUME	TUBING MATER MATER	BAND BAND BRIATIVE SED	LE PRESI	RVATION VOL N FIELD	FIN	H	FIELD-FILT Filtration So INTERN ANDA METH	14 Lipmen Sis Sis OD	SA SQ	MPLE UIP NE CODE	HICTER	SIZE NAPLI PUMP PLOW
SAMPLE CONTAINS SAMPLE CONTAINS CODE CONTAINS	TAMEN EPEON TAMEN EPEON NER LCODE C.G.	VOLUME	TUBING MATER MATER	BAND BAND BRIATIVE SED	LE PRESI	RVATION VOL N FIELD	FIN	H	FIELD-FILT Filtration So INTERN ANDA METH	14 Lipmen Sis Sis OD	SA SQ	MPLE UIP NE CODE	HICTER	SIZE AMPLI FLOW FLOW RATE
JMP DR TUBING EPTH IN WELL (IN UPLICATE COLLE EAMPLE CONTAIN CODE CONTAIN 2	TAMEN EPEOUR TAMEN EPEOUR NER LOODE C.G.	VOLUME 40 ml	TUBING MATER MATER	SAMP SAMP SED	LE PRESI	RVATION LYOL N FIELD	Fin	H	FIELD FILT Filtration So INTERNI ANALY ANDA METH	14 Lipmen Sis Sis OD	SA BA	AMPLIII MENERAL PROPERTY AND AMPLIES AND A	HICTER	AND LI

STABILIZATION CRITERIA

pH:±0.2 units Temperature:±0.2 °C Specific Conductance: ±5% Dissolved Oxygen:±0.2 mg/L or ±10% Turbidity: ≤10 NTU or ±10%

VELLNO)		APLE ID:	1					/	1-14	
VELL		Total	Well Depth (fer	41	URGING	3 DATA	En Jai	OTATIO	OCOTU		i I mi	RGE PUM	n mine
MAMETE	R (inches):		• •	'3	DEPTH	le feet to	3) feet		ER (fes	(t):01.	OR	BAILER:	- 11-1
WELL AG	lumi purgi		VOLUME = (T	SALWELL DEP	rh - Stat feet -	IC DEPTH TO	(WATER)		APACI		/foot •	1	gállar
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallors)	TEMP (°C)	A PH (SU)	۸	COND (µ\$)	•	(mg/L)	^	TURB (DITY (NTU)	۸	COLOR	000
:40	****		25.2	- H.	<u> </u>	161		3.2	=	88	=	SICIAY	N
		î	 				++	· · · · · · · · · · · · · · · · · · ·	-				
	,					,	1						
							,						
			-				1-1	,			$\vdash \vdash$	-	
							+++						
				13	ľ							,	
		,									┞		
		1				-							
	,						*						
) BY (PRINT)			1* = 0.04; 1 S SAMPLER(S) S	AMPLIN	G DATA		BAMPLING			-	7. 12" =	
Ca	marane h	Jarlice	4	6		ــــــــــــــــــــــــــــــــــــــ		4-1-	14			20	
epth in	TURING WELL (feet). TE COLLECTE	M V	0	TUBING MATERIAL COL	XE:			FIELD-FILTE Pitration Equ		Y N Type:		FLTER	SIZE:
	PLS CONTAIN		;	BAN	PLS PRESS	RYATION		MYEND ANALY! AND!O	R R	501	MPLIKE IIP MEN IODE	•	LUMP LOW RATE
AMPLE	CONTAINER	MATERIA L GODE	VOLUME	PRESERVATIVE USED	ADDED II	RELD	FINAL pH	AND STREET				(0	nkmin
	2	16	4Unl	HU				826	UB		<u>B_</u>		
			·										
		, 											
MARK													

STABILIZATION CRITERIA
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ±5% Dissolved Oxygen: ±0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

VELLNO		and a		SAMP	LE ID:					DATE	4-	1-14	· · · · · · · · · · · · · · · · · · ·
				PL	IRGING DA	TA							
VELL HAMETER	R (inches):	1.	Vell Depth (fee	¹³ 30	WELL SCREE	NINTERVA) feat	STATIC TO WAT	DEPTH ER (fee	1) 21.2	2 PU OF	RGE PUM BAILER	PTYPE
VELL VO	UMB PURGE	HELLY	DLUME = (TC	TALWELL DEPTH	- STATIC DEF et-	THTOW		X WELL	CAPACI	Pallens enolieg		9	Qallon
TME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP (°C)	A (su)	1 4 1 "	ND. S)	۸	(w8/r)	٨	TURB IDITY (NTU)	۸	COLOR	000
1:22			24.3	- 4.7		2/ -		3.3	-	56	Į	cir	V
									 				
				, i	-		-+	-	+	,		*	
					+				1				\vdash
	,										"		
									 				├
						-+			+	-			-
						-		· · · · · · · · · · · · · · · · · · ·	†				
												1-	
										-			
								, '		ļ	بيبا		<u> </u>
UMP OR EPTH IN	BY (PRINT) LM4-264 TUBING WELL (1881):		_	SAMPLER(S) SIG YUBING MATERIAL CODE	-	NTA		SAMPLING 4-1 FIELD-FILT Filtration Eq	・/) ERED	Y N		UNG TIME バンユ FILTER	
UPLICA	re course te	D: Y	(N)				· · · · · · · ·	-					W. L
BANI	ilé contain	er epecipi	ATION	SAMP	le preservat	ION	·	ANALY ANALY AND/ METH	eis Dr	EQ	MPLIN JIPMEI DODE	NT T	PUMP PLOW RATE m/m/n
SAMPLE D CODE	CONTABLER	MATERIA L CODE	AOTAME	PRESERVATIVE USED	TOTAL YOU MELT (III)	FINA		,			,		
,	2	CG	41ml	HCL				820	10		13		
					· · ·					1-		_	
										1			
(
The state of				<u> </u>									
REMARK	.	<u> </u>			,							*	
			885; QG =	Glear Glass; PR	- Polyetnylene:	PP u Po			alleone	T = Te		0 • Other	1 Canal

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Opecific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

MAINE	louds Chev	ren					re ICATION:	Taylo	rs St	reel & Tw	o Noic	h Road	, Col	umble, Sc	<u> </u>
AEIT 40					SAMPLE								4-	1-14	
					PUR	RGING	DATA								
	R (inches):		Vell Depth (fee	متدن		WELL SC	REEN INT	638	feet	STATIC TO WAT	DEPTH ER (fee	1):28.5	S PI	irge pumi R Bailer:	PTYPE
AULT AO	Lume purol	: TWELL Y	DLUME = (T	35	EPTH . feet-		DEPTH 1			X MEIT	:APACI	engileg engileg		•	gallon
TIME	VOLUME PURGED (galions)	CUMUL. VOLUME PURGED (gallors).	TEMP (°C)	л (s	H)	۸	COND. (84)		`	DO (mg/L)	٨	TURB (DITY (NTU)	٨	COLOR	000
4:35			26,4	- 4	9	-	221			3.8	_	171		Clare	N
			 	-					-				-		
			 						十					,	<u> </u>
		,													
								, ;		-					·
		ļ <u>"</u>	-												<u> </u>
			 	i.				-+-	十						-
							20								
		1							\Box					,	
						<u> </u>			-						
								-1	+						
AMPLEC	BY (PRINT)	امادرا	L.L	SAMPLER(S	SAM	PLING ATURE(S)	DÁT	A	Ĩ	SAMPUNG	DAYE,		BAMF	UNG TIME	
und ob Epth in	TUBING WELL (feet): FE COLLECTE			TURING MATERIAL (:008:			1		Pilorion Eq	WED.	Y N Type:		FILTER	
-	PLU CONTAIN		PATION		IANPLI	PRESEN	MATION	- ·		ANALY ANALY AND/O	HIP IR	BOL	MPLIN IIP ME IODE	IG I	AND LE
SAMPLE D CODE	CONTAINER 6	MATERIA L GODE	VOLUME	Preservat USED	NE	TOTAL \ ADDED IN	FIELD	Fanal ph		,		,		3	
	9.	66	40ml	HU	4	-		•		8961	13		3_		
								ì	1	 					
				1											
								· · · · · · · · ·				-			,
EMARK		1	,	<u> </u>		**************************************	L					<u> </u>	-	L,	
MATERIA	LCCORS. A	G + Amber C	1895; CO =	Clear Glass;	PB = 1	Polyethyle	na; FF	- Poly	propyl	éne; S = S	Vicane,	7 - 7e	ion;	O = Other	(Specif
amplin	o rquipmen	T CODES:		Peristatic Pur erse Flow Peri		# = Baller		Bladde		p; BSP Ing Gravity D	= Electr train):	ic Subme O = O		Puriting pecify)	

STABILIZATION CRITERIA

SITE	Clouds Che	vrdn					SITE									
NAME:		The second			1		LOCATIO	N. TE	ylors	Street	& Two	Note			lumbia, S	
WELLN	O. 1	سيده مله			SAME	LE ID.		-			-			4-	2-14	
					PU	IRGIN	IG DAT	A								
WELL		Total	Vell Depth (fe	et) 30		WELL	SCREEN	NTER	VAL	s	TATIC DE	PTH	10.7	O P	URGE PUM	P TYPE
WELLV	er (inches); Olume purg	E TWELL	OLUME = (T			DEPT	H: S te	et to	SO RE	et T	TATIC DE O WATER VELL CAI	(fee	1). []] 4 "	0	R BAILER:	
			= (30	Te:	et÷				ý x '	TELL ON		gallons	/foot	.	gallons
TME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP (°C)	۸	pH (su)	, A	CON (µS	Τ-	A		0 0	۸	TURB IDITY (NTU)	A	COLOR	ODOR
1438	_	_	25.4	-	6.4	-	23	3	-	4.	0		33	=	clr	N
						1									100	//
		<u> </u>											,		,	
		-		1 1												
		· ·						-								
	 	 	 			-		1 -				_				
			 	 		-	+	-						, · · · · i		<u> </u>
	1					 	+			<u> </u>		-	,			
					,			* * *				-	<u>.</u>			
					, i										-	
3.00				 						1,						
	I		1				ــــــــــــــــــــــــــــــــــــــ	-		L						
MATT CI	MACITY (Gal	ons Par Foot).	0.78" = 0.02	\$45 ≥ 01	注 拉	F = 0.06	2"=0,1	6, 8	- 03	i de	0.65	# "	1.02;	P = 14	7, 12" -	5.88
		ť,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				4			********		سنسون أندس			.,
SAMPLE	DBY (PRINT)			SAMPLE	R(S) SIGN	ATURE	IG DAT	A	,,	SAME	LING DA	TE.	1.	EV ME	UNG TIME:	
	- meren	Warle	k			W				4	2-1	4	1		4.37	
DEPTHA	Y TUBING I WELL (feet):	. 4		TUBING MATERY	LCODE:	,		,		FIELD	PILTERE on Equipa	0	A N		PILTER	SIZE.
OUPLICA	TE COLLECTE	D. Y	N					1	ل			JOIL	1102	-		
SAM	ple contain	er epscipio	ATION		SAMPL	S PRES	ERVATION			A	TENDED VALYEIS VND/OR		EQU	PL(N PNE)	er ,	row nie
SAMPLE D CODE	CONTAINER	MATERIA L GODE	VOLUME	PRESERV	/ATIVE	TOTA	r vol	FD	ML	, N	ETHOD	4		002		tate (Vmin)
_	2	CG	40ml	HU			<u>u </u>	P	*1	6 6	1.0 -		-			
			T NIAO		'			-		بكك	600	_	C	2		
				-				1		·		-	-		 	
											 	-				Ţ
								١								
REMARK	<u></u>				I		$\perp I$						·/			
	-															-
MATERIA	LCCDES A	G = Amber Gli	155, 00 º (ilear Glass;	PBo	Polyethy	lene: Pi	P a:Pr	o Abrob A	lene:	s = Shigo	ne:	T = Teff	DD.	O = Other (Speeds
BAMPLIN	o Equipment		APP - Atter F	eristatic P	urn n	R = Bas	er.	Blad	der Pun	no.	CEP a Ele	ctric	Submen	ibleP	an c	obeen31
			RPP = Reve	THE FION P	न अमहाराष्ट्	ump,	SM = Strav	* Meti	nod (Tu	ong Gre	Mily Drain)	0 = On	er (Sp	ecity)	1

SITE NAME:	Clouds Chev	vron					SITE LOCATION	Te	ylors t	Street & Two	o Note	ch Road	l, Col	umbia, Si	3
WELLNO) :	\$ **			SAMP			}				DATE			
\ <u> </u>		an I an I law Stagager				;		1						"	
					PU		G DATA	diam'r.							
DIAMETE	R (inches):		veil Depth (fe	3	0	DEPTH	SCREEN IN	to 2	D fe	STATIC I	ER (fet	:t)·		irge pum R Bailer:	PTYPE
WHIL YO	CLUME PURG		= (OFAMB = (1	3 <u>6</u>) tes		IIC DEPTH	TOV) X METT C	APAC	gallons	/loct	•	gations
TIME	VOLUME PURGED (gations)	VOLUME PURGED (gallons)	TEMP (°C)	A	рН (su)	٨	(µS)	X	٨	00 (mg/L)	۸	TURB IDITY (NTU)	۸	COLOR	QDOR
														2	
	ļ					ļ	 				ļ				
		-					 	-							
						 	1		-	193	-				
-		,													
								1							
				.,	4										
******		i i		-		ļ	 	1-1							
					, ,	,	 	-					,		
يد تيديد			 					+							JE
					1										
WILL CA	PACITY (Gale	ons Per Foot):	0.78" = 0.02	: 1*×	064: 1.2 6	- 0.06:	2* = 0.18		P = 0.3	7; 4" = 0,65;	57.	1.02	r = 1 <i>4</i>	7. 12" -	K 42
								+			-			.,	
				-	SAI	APLIN	G DAT	À							-
SAMPLE	OBY (PRINT)	, 'I		SAMP	ER(8) SIGN	IATURE(5):			SAMPLING	ATE.		SAMP	LING TIME:	
PUMP OR DEPTH IN	WELL (feet)	*	,	TUBIN	G RIAL CODE:		-			FIELD-FILTE Filtration Equ			-	FILTER	SIZE
DUPLICA	TE COLLECTE	D. Y	N'			************		1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- Post of a	. 700.			
BAM	PLE CONTAIN	er specific	ATION	i i	éanpl	i Prisi	IRVATION	1	1	ANALYS AND/OI METHO	16 1	EGU	WPLINI IP MEN IODE	ir i	WPLE UMP LOW LATE (Kmin)
SAMPLE D CODE	CONTAINER S	MATERIA L GODE	VOLUME		ervative ised	ADDED (N FIELD		H WL				***************************************		
								,							
·								1							
·				ļ				4		-		 			
				-				-		, , , , , , , , , , , , , , , , , , ,		1		, į	
								;	7.					_	
REMARK	5:	CIL	Lock	1	A1 - 1		11			 					
AAATIM: A	LCODES A						esed		-h	Anne de de			les.	A 4	
	O EGNEMEN	G = Amber Gil F CODER:	APP = After	Clear Giz Peristatu		Polyetny			olyprop) ider Pu			T = Tef		O = Other (abeculy)
~~~~ <del>~~</del>	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~							Met	hnd (Tu	nip. Gravity Dr	aint	тоншиса ИО « О			

STABILIZATION ORITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

SITE (	Clouds Chey	non.		<del></del>			ITE OCATION	Ter	viors S	Street & Two	e Note	h Rose	i. Col	umble. Si	3
WELLING	).	me		<del></del>	SAMP	LE ID:						DATE			
		13.1.4	<u> </u>	· · · · · · · · · · · · · · · · · · ·				<del>}</del>	-		<del></del>	ــــــــــــــــــــــــــــــــــــــ			
	· */ -7/5   • / *		Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Ma		PU		DAT					_			
WELL	R (inches):	Total V	Vell Depth (fe	en) 30		WELL S	CREEN IN	TER	YAL 181	STATIC				RGE PUMI BAILER:	TYPE
WELLVE	LUME PURGE		OLUME - (T	OTAL WELL	DEPTH	- STAT	IC DEPTH	TOV	VATER)	X METT		ŤΥ			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		CUMUL.	• (	30	155	)t-:	·	<u> </u>	feet)	* *	·	gallons	лост	9	engileg
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (gallone)	TEM₽ (°C)	۸	pH (su)	<b>A</b>	CONE (µS)		A	(w <b>ō</b> /୮) DO	۸	TURB IDITY (UTV)	^	COLOR	ODOR
				1											
		<del> </del>	<del> </del>	<del> </del> -	<del></del>	<del>                                     </del>	<b> </b>				<del>}</del>				
		<del>                                     </del>	<del>                                     </del>	┼┼┼		1					-				
			1	<del>                                     </del>	<del></del>			-				<b></b>			,
			1												
			ļ					-						,	
			<del> </del>			<del> </del>	<del></del>				-				
	-		<b>/</b>		<del></del>	1		-		-					;
			,									-	H		
		1.				Ì				,		35			
WELL CA	PACITÝ (Gelic	na Par Pact):	<b>0.75* =</b> 0.03	20 = "1 ;	121	B" = 0.06;	#= 0.16		r = 0.31	r. 4" = 0.65;	6° -	1.02; (	P = 14	7, 12"=	5. <del>8</del> 8.0
	<del>(1), 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 </del>		<del>,</del>	<del></del>		+		Ţ			<del>,</del>				
andria i Valence	*				SAI	HPLIN	G DAT	A							
	SEY (PRINT)	. P		,	R(S) SIGI	vature(e	ķ	:		Sampling	·	-	SAMP	LING TIME:	
	TUBING WELL (feet): TE COLLECTE	D: Y	N	TUBING MATERIA	LCODE:		Ţ.	,		FIELD-FILTE Filtration Equ	AED: ipment	Type:	-	FUVER	3)7(É
SAM	PLE CONTÁIN	er specific	MOITA		BANTI	e prior	RVATION			MTENDI ANALYI AND/O METHO	lio R	BOL	MPLIN IIP MER LODE		EMPLE UMP LOW LATE
SAMPLE D CODE	GONTAINER S	MATERIA LCODE	VOLUME	PRESER		YOYAL ADDED U	FIELD	Fib	H H				<del>,</del>		ivinin)
		, ,							Ĵ						
								<del>-</del>							
	<u> </u>					1		+			-	<b> </b>	<del></del>		
	,	8 1	****	<u> </u>		<del> </del>		4				<del> </del>			
							-+	-				1			
REMARK	Cal	e Loi	1			<del></del>		· ·		1 .	<del></del>	<del></del>			
MATTO				Alas Alas		Bal with a			a). a		11.27.7			<b>***</b>	
	l Codes: A Gequipment		APP = After	Clear Glass, Peristatic P		Polyeny		-	olypropy Ider Pur			T = Tel		O = Cither (	abecuA)
					and a dear like at	B	·			helium diament die a die	,				Į.

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ±5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

PURGING DATA  ELL AMETER (Inches) AMETER (Inches) BELL VOLUME PURGE: 1 WELL VOLUME: (TOTAL WELL DEPTH - STATIC DEPTH TOWATER) TO WATER (IES) BELL VOLUME PURGE: 1 WELL VOLUME: (TOTAL WELL DEPTH - STATIC DEPTH TOWATER) X WELL CAPACITY TOWATER (IES) OR BALLER:  " O TOTAL WELL DEPTH - STATIC DEPTH TOWATER) X WELL CAPACITY TOWATER (IES) OR BALLER:  " O TOTAL WELL DEPTH - STATIC DEPTH TOWATER) X WELL CAPACITY TOWATER (IES) OR BALLER:  " O TOTAL WELL DEPTH - STATIC DEPTH TOWATER) X WELL CAPACITY TOWATER (IES) OR BALLER:  " O TOTAL WELL DEPTH - STATIC DEPTH TOWATER) X WELL CAPACITY TOWATER (IES) OR BALLER:  " O TOWATER (IES) OR BALLER:  " O TOWATER (IES) OR BALLER:  " O TOWATER (IES) OR BALLER:  " O TOWATER (IES) OR BALLER:  " O TOWATER (IES) OR BALLER:  " O TOWATER (IES) OR BALLER:  " O TOWATER (IES) OR BALLER:  " O TOWATER (IES) OR BALLER:  " O TOWATER (IES) OR BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:  " O TOWATER (IES) OW BALLER:	AME CI	ouds Chevi	ren				SITE	N: Ta	ylors S	treet & Two	Note			mbia, S	3
ELL GAPAGETY (Galloro Per Foot) 9.76"   ***OLUME PURGED PROBLES TEMPLY COLUMN (COLUMN COLUMN	VELLNO:					GAMPLE II	)·					DATE	4	-2-	14
ELL GAPAGETY (Galloro Per Foot) 9.76"   ***OLUME PURGED PROBLES TEMPLY COLUMN (COLUMN COLUMN						PURC	ING DAT	ra l							
TIME YOLUME VOLUME TEMP (C) A (M) COND. A (M) COND. A (M) A COLOR ODC (M) A (M) A COLOR (M) A (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A COLOR (M) A CO						W	ELL SCREEN EPTH: 20 16	INTER	<b>5</b> fee	TAW OT 1	ER (fee	いわげ	3 PU		P TYPI
TIME PURSED PURSED PROBLEM (%) (%) (%) (%) (%) (%) (%) (%) (%) (%)	ABEL VOL	ume purge	I WELL V				STATIC DEPT	H TO			APACI		/foot		gallor
TEL GAPAGITY (GSIONS PET FOOT) 9.76" = 0.02, 12 = 0.04, 128" = 0.06; 2" = 0.16; 5" = 0.37, 6" = 0.63; 8" = 1.02; 6" = 1.07; 12" = 0.69  MAPLED BY (FRINT)  JAMPLED BY	TIME	PURGED	VOLUME PURGED	TEMP	^ {	rd+i Su)			٨		A	IDITY	٨	COLOR	000
SAMPLING DATA  AMPLED BY (PRINT)  CANCIN WALL (Sect):  JUBBIS  BATTEN WELL (Sect):  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING TIME:  4-1-14 / 5-2-5  JUBBIS COLLECTED:  NATERIAL CODE:  PELD-FLYERED:  MATERIAL CODE:  MATERIAL CODE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING TIME:  PELD-FLYERED:  NATERIBED  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANAL	535		-	25.8	- 5	-7	- 9	4	Ξ	3,3	-	41	=	111	Ν
SAMPLING DATA  AMPLED BY (PRINT)  CANCIN WALL (Sect):  JUBBIS  BATTEN WELL (Sect):  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING TIME:  4-1-14 / 5-2-5  JUBBIS COLLECTED:  NATERIAL CODE:  PELD-FLYERED:  MATERIAL CODE:  MATERIAL CODE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING TIME:  PELD-FLYERED:  NATERIBED  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANAL								!							
SAMPLING DATA  AMPLED BY (PRINT)  CA-2 LA-1								<u>'</u> ] 						uminangi u mada	
SAMPLING DATA  AMPLED BY (PRINT)  CA-2 LA-1								1							
SAMPLING DATA  AMPLED BY (PRINT)  CANCIN WALL (Sect):  JUBBIS  BATTEN WELL (Sect):  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING TIME:  4-1-14 / 5-2-5  JUBBIS COLLECTED:  NATERIAL CODE:  PELD-FLYERED:  MATERIAL CODE:  MATERIAL CODE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING TIME:  PELD-FLYERED:  NATERIBED  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANAL															
SAMPLING DATA  AMPLED BY (PRINT)  CANCIN WALL (Sect):  JUBBIS  BATTEN WELL (Sect):  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING TIME:  4-1-14 / 5-2-5  JUBBIS COLLECTED:  NATERIAL CODE:  PELD-FLYERED:  MATERIAL CODE:  MATERIAL CODE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING TIME:  PELD-FLYERED:  NATERIBED  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANAL															
SAMPLING DATA  AMPLED BY (PRINT)  CANCIN WALL (Sect):  JUBBIS  BATTEN WELL (Sect):  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING TIME:  4-1-14 / 5-2-5  JUBBIS COLLECTED:  NATERIAL CODE:  PELD-FLYERED:  MATERIAL CODE:  MATERIAL CODE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING TIME:  PELD-FLYERED:  NATERIBED  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANAL															
SAMPLING DATA  AMPLED BY (PRINT)  CANCIN WALL (Sect):  JUBBIS  BATTEN WELL (Sect):  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING TIME:  4-1-14 / 5-2-5  JUBBIS COLLECTED:  NATERIAL CODE:  PELD-FLYERED:  MATERIAL CODE:  MATERIAL CODE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING TIME:  PELD-FLYERED:  NATERIBED  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANAL			4					<u>. j</u> .	-	,	-			-, '	
SAMPLING DATA  AMPLED BY (PRINT)  CANCIN WALL (Sect):  JUBBIS  BATTEN WELL (Sect):  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING TIME:  4-1-14 / 5-2-5  JUBBIS COLLECTED:  NATERIAL CODE:  PELD-FLYERED:  MATERIAL CODE:  MATERIAL CODE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING TIME:  PELD-FLYERED:  NATERIBED  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANAL			-										$\vdash$	· ····	<u> </u>
SAMPLING DATA  AMPLED BY (PRINT)  CANCIN WALL (Sect):  JUBBIS  BATTEN WELL (Sect):  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING TIME:  4-1-14 / 5-2-5  JUBBIS COLLECTED:  NATERIAL CODE:  PELD-FLYERED:  MATERIAL CODE:  MATERIAL CODE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING TIME:  PELD-FLYERED:  NATERIBED  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANAL								į							
SAMPLING DATA  AMPLED BY (PRINT)  CANCIN WALL (Sect):  JUBBIS  BATTEN WELL (Sect):  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING TIME:  4-1-14 / 5-2-5  JUBBIS COLLECTED:  NATERIAL CODE:  PELD-FLYERED:  MATERIAL CODE:  MATERIAL CODE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING TIME:  PELD-FLYERED:  NATERIBED  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANAL		-				ž.		. !	1						
SAMPLING DATA  AMPLED BY (PRINT)  CANCIN WALL (Sect):  JUBBIS  BATTEN WELL (Sect):  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING TIME:  4-1-14 / 5-2-5  JUBBIS COLLECTED:  NATERIAL CODE:  PELD-FLYERED:  MATERIAL CODE:  MATERIAL CODE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING TIME:  PELD-FLYERED:  NATERIBED  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANAL												,		,	
PRICATE COLLECTED: Y (N)  SAMPLE PRESERVATION AND SAMPLIND SAMPLIND SQUIPMENT GODE  AND COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPAN	CAL	TUBING	darlici	<b>{</b>	TUBING	S) BIGNAT		TA		4-1.	- 14 RED	V N	SAMP	7.2	
SAMPLE CONTAINER SPECIFICATION  SAMPLE PRESERVATION  ANALYSIS SQUIPMENT PLOW RATER CODE  CODE  CODE  CONTAINER MATERIA  LOGOE  VOLUME  PRESERVATIVE USED  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  AN			D: Y	(A)		ouns.				Landron ext	i lauge	1786			
AMPLE CODE CONTAINER LCODE VOLUME PRESERVATIVE LCODE USED FINAL PH S2606 3	BANG	LE CONTAIN	ir efecific	HOITA		DANGLE?	RESERVATIO	N		ANALY! AND/O	\$19 R	10	JP 1481	T	PLOW RATE
EMARKS:	SAMPLE D CODE	CONTAINER S	MATERIA L GODE	<b>AOTAME</b>	PRESERVA USED	TIVE A	DED IN FIELD						,		, , ,
EMARKS:	-	2	(5	Alme	HU			-		826	16	1	3		
EMARKS:			+ + +				· · · · · · · · · · · · · · · · · · ·	1				1-			
EMARKS:							<u> </u>								
ATERIAL CODES: AG = Amber Glass; CC = Clear Glass; PE = Polyethylene, PP = Polyetopplene, B = Silicone; T = Tellon; C = Ciner (Speci	EMPANS		l'					•							
ಕರ್ನಾಗಿ ಕರ್ಮ ಮುಖ್ಯಮ ಪ್ರಭಾಗಕ ಕಣ್ಣ ಅವರು ಪ್ರಮುಖ ಸಂಪುರ ಮುಖ್ಯಮ ಮುಖ್ಯಮ ಮುಖ್ಯಮ ಕರ್ಮ ಕರ್ಮ ಕರ್ಮ ಅವರ ಕರ್ಮ ಕರ್ಮ ಕರ್ಮ ಕರ್ಮ	ATEDIA	CODES: A	s Amber G	888; CG #	Clear Glass:	<b>PE</b> • Po	yethylehe.	<b>69</b> a 6	olygroov	iene, B = S	licone:	ToTe	fion:	O o Other	(Speci

SITE	Clouds Che	vron		<del></del>		13	SITE _				-			
NAME:					T		OCATION: TO	ylors	Street & Tw	o Note			umble, S	<u>C</u>
WELLN	U.		·	*	SAMP	LE ID.				-	DATE	41	3/14	
					PU	RGING	ATAD E	1				•	·	
WELL	ES dans	Total	Well Depth (fe	et) 20		METT	CREEN INTER	VAL	STATIC	DEPTH	A	PI	JRGE PUM	P TYPE
WELLV	ER (Inches): OLUME FURG	E: 1 WELL	VOLUME = (Y	OTALWELL	DEPTH	DEPTH	5 feet to	AD N	TO WAT	ER (fee	94.60	)   0	RBAILER:	
			= (	20	fee	1- 9	.60	feet	X	MAT-MU-1	gallons	/foot	•	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP (°C)	Λ	pH (su)	۸	CÓND. (µS)	A	(mg/L)	۸	TURB IDITY (NTU)	۸	COLOR	ODOR
0851			149.3	-	7.1	-,	186	-	3.6	-	19	-	Ur	N
					,								<u> </u>	
	<del> </del>	<del> </del>												
		-	<del></del>										,	
	-	-	-								-	-		
			<b>—</b>							-	-			
													<del></del>	
		1												
	<del> </del>		<u> </u>											
,						-								
	-		<del> </del>					,						
							- /	V = 7.						
WILLO	VPACITY (Gall	ans Per Fron	6.78° = 0.03	47=00	4.60	V = 0.00	2"=0.16, 1		- 27 4 - 7 - 1					
<del></del>					-, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- 0.00	4 -0.16, 1	- 0.37	, 4" = 0.65;	9" a	1.02;	- 14	7, 12" =	5.88
			1, 1		SAN	PLIN	DATA	i 1						
	DEY (PRINT)		, ,	SAMPLER	(S) SIGN	ATURE			SAMPLING C	ATE:			NO TIME.	
PUMP OF	R TUBING	Slack		TUBING		42	<del></del>		FIELD-FILTER	380		08	5	
DUPLICA	WELL (feet):	D Y	65	MATERIAL	CODE				Filtration Equi	busing.	ype:	, ,	PATER	SIZE:
		, ,	<u> </u>	4	<del>,</del>	<del>,</del>				·	,			
BÀM	PLE CONTAIN	er epsoiph	ATIÓN	,	BAMPLI	i priiser	MATION		analyei Analyei And/or Methol		EGU	Pline Pren Odi		MPLE UMP LOW ATE
D CODE	CONTAINER	MATERIA L CODE	VOLUME	PRESERVA USED	TIVE	TOTAL \ ADDED IN	FIELD					<del>''' '' '' '</del>	199	řmlo)
-	2	66	4Unu	141		_			8260	0	10	5		-
										$\Box$				
ر جا المالية		1				<del></del>		ļ <u>-</u> ;			-			
					-+	<del></del>			**************************************		•			
REMARK	<b>*</b>			<del></del>		· · · · · · · · · · · · · · · · · · ·					****			
MATERIA	00000	-	<b></b>	Naise and a second				· 	,		•			
	C COUPMENT	GODES:	APP = After P	lear Glass, eristatic Pur		olyathylar B = Satier.					T = Tello		= Other (S	pecky)
			RPP = Reve	ise Flow Per	Stallic Pu		H = Staw Met	uo: ruii had (Tub	ip, were i ing Gramity Dra	siecuic Ink	Submers O = Oth			ı

STABILIZATION CRITERIA

pH: ±0.2 units Temperature: ±0.2 °C Specific Conductance: ±5% Dissolved Dxygen: ±0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

SITE C	louds Chev	ron				SITE LOCATION:	laylors S	treet & Tw	o Nate	h Road	i, Col	umbia, S	
WELLNO		3			SAMPLE ID:					DATE	4-	-1-14	/
			-		PURGING	DATA							
WELL DIAMETEI	R (Inches):	Total	Vell Depth (fee	** 20	WELL!	CREEN INT	20 fee	STATIC TO WAT	DEPTH ER (fee	) //. 3	PL	IRGE PUM R BAILER.	P TYPE
WELL VO	LUME FURGE	TWELLY	OLUMB . (TO	STALWELL D	EPTH - STAT	IC DEPYH T	(teet)	X WELL	APACI	gallons		*	gations
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallors)	TEMP ( [©] C)	Α .	OH A	COND (µS)	٨	(w8/r) DO	٨	TURB IDITY (NTU)	٨	COLOR	ODOR
5:45	-	-	24.0	6	.0 -	227	+	3.3	-	<i>5</i> 0	90	Clr	N
						1			-				
			<del> </del>					····	-		-	·	<del> </del>
		<del></del>											
								*******					
'						<b> </b>							
	,	<del></del>							-				<del> </del>
			<del></del>						1				-
2,	,												
	,	-											
			1					,					
	BY (PRINT)	Jarl.	.la	SAMPLER	SAMPLIN SIGNATURE			Sampling 4 - / Field-Pilte	-/-			LING TIME	•
DEPTH IN	WELL (feet)	D: <b>V</b>	N)	MATERIAL	-00E	<del></del>		Filtration Et	upment	Type:		,	
MAS	LE CONTÂNI	ir specifi			iample pres	IRVATION		ANALY ANALY ANDAG METHO	RIS	EQ	MPLIN JIP MEI JODE	o NT	PLOW PLOW PLAYS PLOWIN)
SAMPLE D CODE	CONTAINER	MATERIA L'ODE	VOLUME	PRESERVAT USED	TOTA ADDED	A LIEFO	FINAL PH				•		, , , , , , , , , , , , , , , , , , , ,
-	1	16	40ml	HL				\$21	OB		3_		
		1					-			-			
										<del>                                     </del>			
240		1											
REMARKS	3.	6,					1						
MITERIA	L CODES A	0 = Amber 6	ilass; CO =	Clear Glass;	PB = Palyam)	ene; PF	Polypropy	iene; S= S	ilicone;	T = Te	iton;	O = Other	(Specif)

STABILIZATION CRITERIA

pH; ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

	louds Chev	non					SITE OCATION	Taylors	Street & Tw	ro Note	h Rose	i. Col	umbia. S	c
METTNO					SAMP	LÉ ID:	1					47		
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,	PU	RGIN	DAT	Δ.					- (	
WELL DIAMETE	R (Inches): 2	<b>.</b>	Vell Depth (fe	. 17		WELL S	CREEN IN	TERVAL	feet TO WA	DEPTH	1) 25		JRGE PUM R BAILER:	P TYPE
WELLVO	LUMB PURGE	: 1 WELL V	OLUMB = (T	OYALWI V		- STAT	C DEPTH		R) X WELL ( et) X	CAPACI	1.A	e/logt		gallon
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP (°C)	A	pH (au)	۸	COND (H2)		(mg/L)	٨	TURB IDITY (NTU)	4	COLOR	000
7935		- Colleges	21.77	_	1.3		138		3.4	-	220	=	Say	20
946	25	1.5	20.7	0.7	5.7	4.4	133	5	1	<b> </b>	180	40	SICILY	7
90 O	3.0	5.5	20.9	0.4	5:1	6.2	134	TT		1	101		S CIRY	1
009	2.5	8.0	19.6	0.7	5.9	0.1	137	3	",		41	60	cirl	11
1015	3.0	11.0	19.5	1.0	28	0.0	13-9	12			9	32	CIC	V
					l									
								,						
		11											1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		1	1		<del>,</del>									
			1					1			,			
					SAI	MPLIN	a DAT	A			-	P • 14	17. 12" *	,
-	BY (PRINT)	2 5	nde		ER(8) 816)			i i	SAMPLING			SAMP!	UNG TIME	
UNP OR	TUBING			TUBING				1	FIELD FILT	PED:	V N	1.0	FILTER	SIZE
	E COLLECTE	D. Y	6	MATER	IAL CODE:			··	Filtration Eq	upment	Type:	······································		
SAM	ls contast	IR SPECIFIC	ATION		BANAPI	a Prese	RYATION	1 41	ANALY ANALY ANDVO	NG R	BOL	MPLINI IPMIN IODE	T .	LOW RATE
SAMPLE D CODE	CONTAINER 8	MATERIA L CODE	AOTOME		HVATIVE SED	TOTAL ADDED IN (m)	FELD	FINAL pH			-			
-	7	CG	Almb	L	CL	-		-	226	13	e i i	3_	8.1	
	,				· · · · · ·			4						<del></del>
								1						
				<del></del>				,	+			-		
EMARKS	Broke	n hel	Lid	mis	Since	bat	<u>.</u>		1		J.,			44,
ATERIAL	CODES: AC	a Amber Gi	885, <b>CG</b> = 1	Clear Gla	55. PH a	Polyethyle		Polypro	pylene: 2 = S	ilcone.	T = Tel	ian:	O = Other	Specia
un Line	SQUIPMENT	CODES:	APP - After	Peristante	Pump;	D = Batte		Eladder F		Electri	Submer	sible P	ung.	

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: 5 10 NTU or ± 10%

787 ·

				·	SAMPL	£ ID:					DATE	4/	3/14	
					PU	RGING	DATA	}						
LL	(inches); G	<i>L</i> 1	ell Depth (feet	<b>3</b>	0	DEPTH	REEN INT	0 <b>20</b> #		ER (feet			RGE PUMI R BAILER:	PTYPE
FLACE	UM PURGE:	A MELT AG	LUMB = (TO	ACWE	DEPTH fee	- STATI	С ОЕРТН Т	OWATER	) X ) X METT (	APACII	gallons	Hoot		norieg
IME	VOLUME PURGED (gallons)	CUMUL: VOLUMB FURGED (gallons)	TEMP (°C)	۸	pH (su)	٨	COND.	٨	(mg/L)	Α	TURB IDITY (NTU)	۸	COLOR	000
41	(10000107	- Idaios 51	14.3	-	618	-	160	1+	3.7	-	33	-	cir	N
					-			+						
二														╀
		<del>مه إ</del> نسسي عمم									-		,	
												_		-
			-						, , , , , , ,					上
	,									_				-
								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
	<del></del>	-	1					1 ( )	1,777	7.		T	Ī	1
	the state of the state of		-		<del></del>	-	1		1	<del> </del>		+		1
					000 10	FF = 0.05	0° = 0 16	87.00	37 47+0.6	5. 5"	1.02	•	A7. 18"	5.88
al ca	PACITY (Guild	ne Par Foot):	9.767 - 0.02	(**				<del></del>	37; A*+0.6	6; 67	1.02;	<b>*</b> • 1	A7, 12"	- 6.88
	PACITY (Guild ) BY (PRINT)	ms Par Footh:	<b>8.76</b> ° = 0.02			MPLIN	G DAT	<del></del>	SAMPLING	DATE:		SAM	PLING TIM	
APLEO Tico	BY (PRINT)	on Per Foot:	<b>9.767</b> = 0.02		SA SER(6) SIG	MPLIN	G DAT	<del></del>	SAMPLING	DATE:		SAM	PLING TIME	
AMPLED Toc UMP OR EPTH IN	BY (PRINT)	dack	e.78* - 0.02		SA ZER(6) SIG	MPLIN	G DAT	<del></del>	SAMPLING	DATE:		SAM	FLING TIME 29 4 L FILTE	F SIZE:
TCC UMP OR EPTH IN UPLICA	BY (PRINT)  VC C  TUBING  WELL (fest):	olack	b		SA ÆRIG) SIG W NG ERIAL CODE	MPLIN	G DAT	A	SAMPLING	DATE:	t Type:	SAM	FLING TIME	E SIZE
AMPLEO TOC UMP OR EPTH IN UPLICATION BAMBLE	BY (PRINT)  YC C  TYUBING  WELL (feet): TE COLLECTE	olack	b	TUBIN	SA ERIOT SIGNAL CODE PANAL CODE EANAL CODE EANAL CODE EANAL CODE EANAL CODE	MPLIN MATURE E La Presa TOTA ADDED	G DAT	A FINAL pH	SAMPLING 4131 FIELD-FIL FIRMATION E  NYTHN ANAL AND METT	DATE:  FERED  QUI pmer  DED  YETS  OR  HOD	t Type:	SAM (() AMPLI QUIPM QODI	FLING TIME	E SIZE
AMPLEO TOC UMP OR EPTH IN UPLICATION BAMBLE	D BY (PRINT)  YOU CONTAINS  THE COLLECTE  PLB CONTAIN	DIAC.	BATION	TUBIN	SA ER(S) SIG NG ERIAL COOR	MPLIN MATURE E La Presa TOTA ADDED	ERVATION	A	SAMPLING 4131 FIELD-FIL FIRMATION E  NYTHN ANAL AND METT	DATE:	t Type:	SAM (	FLING TIME	E SIZE
AMPLEC TYCC UMP OR EPTH IN UPLICA SAM	D BY (PRINT)  YUBING WELL (feet): TE COLLECTE  PLB CONTAINER  CONTAINER	O Y	DATION	TUBIN	SA ERIOT SIGNAL CODE PANAL CODE EANAL CODE EANAL CODE EANAL CODE EANAL CODE	MPLIN MATURE E La Presa TOTA ADDED	ERVATION	A FINAL pH	SAMPLING 4131 FIELD-FIL FIRMATION E  NYTHN ANAL AND METT	DATE:  FERED  QUI pmer  DED  YETS  OR  HOD	t Type:	SAM (() AMPLI QUIPM QODI	FLING TIME	R SIZE
TCC UMP OR EPTH IN UPLICA	D BY (PRINT)  YUBING WELL (feet): TE COLLECTE  PLB CONTAINER  CONTAINER	O Y	DATION	TUBIN	SA ERIOT SIGNAL CODE PANAL CODE EANAL CODE EANAL CODE EANAL CODE EANAL CODE	MPLIN MATURE E La Presa TOTA ADDED	ERVATION	A FINAL pH	SAMPLING 4131 FIELD-FIL FIRMATION E  NYTHN ANAL AND METT	DATE:  FERED  QUI pmer  DED  YETS  OR  HOD	t Type:	SAM (() AMPLI QUIPM QODI	FLING TIME	E SIZE
AMPLEC TYCC UMP OR EPTH IN UPLICA SAM	DEY (PRINT)  YOU CONTAINER  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  S  TO STANDARD  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CONTAINER  CON	O Y	DATION	TUBIN	SA ERIOT SIGNAL CODE PANAL CODE EANAL CODE EANAL CODE EANAL CODE EANAL CODE	MPLIN MATURE E La Presa TOTA ADDED	ERVATION	FINAL pH	SAMPLING 4131 FIELD-FIL FIRMATION E  NYTHN ANAL AND METT	DATE:  FERED  QUI pmer  DED  YETS  OR  HOD	t Type:	SAM (() AMPLI QUIPM QODI	FLING TIME	

STABILIZATION CRITERIA
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ±5% Dissolved Oxygen: ±0.2 mg/L or ± 10% Turbidity: ± 10 NTU or ± 10%

ELLNO.	0.33.44				SAMP			<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>		<del></del>	<u> </u>	<u> </u>	2-14	<u> </u>
ELL,		T otal V	Well Depth (fer	et). 10		WELL SO	CREEN INTER	RVAL	STATIC	DEPTH		PU	RGE PUMI	P TYPE
AMETER ELL VOI	R (Inches): LUME PURGE:	TWELLY	OLUMB : (T	•	ELL DEPTH	DEPTH: - STATIO	C DEPTH TO	WATER) feet)	X WELL C	APACI	t). Ty gallons:		BAILER.	gailon
TIME	VOLUME PURGED (gallons)	VOLUMP PURGED (gallens)	TEMP (°C)	٨	ρH (su)	۸	COND. (µS)	A	ÇÇ (mg/L)	٨	TURB IDITY (NTU)	۸	COLOR	000
	:				·			##						
$\exists$		,1						$\Box$						E
<u></u>														
						,		#		H			1-	1
BLL OA	PACITY (Galo	ns Per Foot):	9.78" = 0.03	2; 4**	·		#*-016 G DATA	\$F = 0.57;	4" = 0.65	<b>6</b> * =	1.02;	P = 14	7, 12"=	5,88
	TUENG				LER(S) SIG			[	SAMPUNG FIELD-FILTE	, '	- 1		ing time	,
PTH IN	METT (LEST): JURING	D Y	N	MATE	RIALCODE	i Ji			Filtration Eq	ipment	Type:		Piliter	BILE.
SAMP	'le Containi	er specific	ATIÓN	,	SAMP	Lë Prese	1		ENTEND ANALY! AND/O METHO	eis R	HOL	MPLIN JIPMEN JODB	ir I	AMPL PUMP PLOW RATE Winin
CODE	CÖNTAMER 6	MATERIA L CODE	AOLUME		SERVATIVE USED	ADDED IN	LEFO ,	FINAL pH						
	ì					med,								

STABILIZATION CRITERIA

pH: ±0.2 units Temperature: ±0.2 °C Specific Conductance: ±5% Dissolved Oxygen: ±0.2 mg/L or ±10% Turbidity: ≤10 NTU or ±10%

NAME:		man .					BITE	Tank		ireel & Ty	as blate	the Brand		employee @4	•
	louds Chev	" My	<del></del>		1		CCATION	i ayu	112 01	magrar IA	O MON	DATE		umbje, ei	
VELLNO		1	<del></del>		SAMP	LE ID:		-							·
				1	PU	RGIN	3 DAT	A							
	R (inches)	ł.	Well Depth (fee	1/		DEPTH	CREEN I	n to 1	7 tee	AWOT I	CEPTH TER (fee	106.0	5 PI	JRGE PUM R BAILER:	PTYP
PELL VO	LUNE PUROE	: 1 WELL V	OLUME + (TO	STACWED		- STA	IC DEPTH	TOWA	TER) feet)	X WELL	CAPAC	TY gallons			galio
TIME	VOLUME PURGED (gallens)	CUMUL VOLUME PURGED (collers)	TEMP (°C)	٨	рН (su)	٨	CON!		٨	DO (mg/L)	^	TURB IDITY (NTU)	٨	COLOR	ODG
<u> </u>	(Banerie)	(dang(b)	21.0		6.4		43	<u>द्र ।</u>		3.1	-	88		SICHA	~
							-	-	_					7	
					-,	-			$\dashv$		+				
		1 2													
									$\Box$						
				-	<del></del>	-	-	+-	-+	<del>}</del>	+	<u> </u>			_
					,				寸		$1^{-}$				
17 11				-								, ,			
÷,						-	ļ		-	· · · · · · ·	1-	ļ			-
						<b>4</b>		. 1			1			. ~	
		1		1			1								
ell ca	PAOITY (Galid		9.76° = 0.62	; ****	D4; 1.2	B* = 0.06;	2" = 0.1	6 5	• 0.97,	, <b>4</b> * = 0.6	5 5-	1.02;	*=1/	17, 18**	6.68
AMPLEC	SY (PRINT)	one Per Foot).	9.78° = 0.02	, ,	SA		G DAT	<del> </del>		SAMPUNG	DATE	1.02;	SAME	LING TIME	
AMPLEC	PRINT)	one Per Foot).	9.78* • 0.62	SAMPLE	SA	MPLIN	G DAT	<del> </del>		SAMPLING LI/2/I	DATE:		SAME		· · · · · ·
AMPLEC TYOUR OR OR OR OR OR OR OR OR OR OR OR OR OR	BY (PRINT)	one Per Foot)	0.76° • 0.62	SAMPLE	<b>SA</b> R(5) SIG	MPLIN	G DAT	<del> </del>		SAMPLING	DATE:		SAME	LING TIME	· · · · · ·
AMPLEC TYV UMP OR BEPTH IN UPLICA	DBY (PRINT)	one Per Poot)	B	SAMPLE	SA ER(S) SIG AL CODE	MPLIN	G DAT	<b>A</b>		SAMPLING LI/2/I	DATE L ERED R R R R R R R R R R R R R R R R R	Type:	SAME	LING TIME SSS FILTER	SIZE:
AMPLEC TYV UMP OR BEPTH IN UPLICA	DBY (PRINT) TUBING WELL (feet): FE COLLECTE	one Per Poot)	DATION VOLUME	SAMPL TUBING MATERI PRESER	SAI R(S) SIG AL CODE	MPLIN	G DAT	<b>A</b>		SAMPLING 1/2/1 FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT ANALY ANALY ANDA	DATE L ERED R R R R R R R R R R R R R R R R R	Type:	SAMP I.S MPLIN	LING TIME SSS FILTER	SIZE:
AMPLECA BAMILE	DBY (PRINT) TUBING WELL (feet): FE COLLECTE	IN SPECIFIE	DATION	SAMPLE TUBING MATERI PRESER US	SAI R(S) SIG AL CODE	MPLIN NATURE: LE PRESI	G DAT	Fina		SAMPLING 1/2/1 FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT ANALY ANALY ANDA	DATE: L( ERED julpinism pupinism page ( Sala or or	Type:	SAMP I.S MPLIN	LING TIME SSS FILTER	SIZE:
AMPLECA BAMILE	DBY (PRINT)  VOT S TUBING WELL (reet): FE COLLECTE  PLE CONTAINER  CONTAINER	D VER SPECIFE	DATION VOLUME	SAMPLE TUBING MATERI PRESER US	SAI PR(5) SIG AL CODE BANK WATNE ED	MPLIN NATURE: LE PRESI	G DAT	FINAL		SAMPLING 1/2/1 FIELD-FILT FUTGEON EC ENTEN ANALY ANDA METH	DATE: L( ERED julpinism pupinism page ( Sala or or	Type:	SAMF / C	LING TIME SSS FILTER	SIZE:
AMPLECA BAMILE	DBY (PRINT)  VOT S TUBING WELL (reet): FE COLLECTE  PLE CONTAINER  CONTAINER	D VER SPECIFE	DATION VOLUME	SAMPLE TUBING MATERI PRESER US	SAI PR(5) SIG AL CODE BANK WATNE ED	MPLIN NATURE: LE PRESI	G DAT	FINAL		SAMPLING 1/2/1 FIELD-FILT FUTGEON EC ENTEN ANALY ANDA METH	DATE: L( ERED julpinism pupinism page ( Sala or or	Type:	SAMF / C	LING TIME SSS FILTER	SIZE:
AMPLECA BAMILE	DBY (PRINT)  VOT S TUBING WELL (reet): FE COLLECTE  PLE CONTAINER  CONTAINER	D VER SPECIFE	DATION VOLUME	SAMPLE TUBING MATERI PRESER US	SAI PR(5) SIG AL CODE BANK WATNE ED	MPLIN NATURE: LE PRESI	G DAT	FINAL		SAMPLING 1/2/1 FIELD-FILT FUTGEON EC ENTEN ANALY ANDA METH	DATE: L( ERED julpinism pupinism page ( Sala or or	Type:	SAMF / C	LING TIME SSS FILTER	SIZE:
AMPLEC UMP OR EPTH IN UPLICA BAMI	DBY (PRINT)  VEC E TUBING WELL (rest): FE COLLECTE  LE CONTAIN  CONTAINER S	D VER SPECIFE	DATION VOLUME	SAMPLE TUBING MATERI PRESER US	SAI PR(5) SIG AL CODE BANK WATNE ED	MPLIN NATURE: LE PRESI	G DAT	FINAL		SAMPLING 1/2/1 FIELD-FILT FUTGEON EC ENTEN ANALY ANDA METH	DATE: L( ERED julpinism pupinism page ( Sala or or	Type:	SAMF / C	LING TIME SSS FILTER	SIZE:
AMPLECTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF	DBY (PRINT)  VEC E TUBING WELL (rest): FE COLLECTE  LE CONTAIN  CONTAINER S	IN SPECIFIE LGODE	DATION  VOLUME  405AL	SAMPLE TUBING MATERI PRESER US	SAI R(S) SIG AL CODE BANK WATME ED	MPLIN NATURE: LE PRESI	G DAT	FINAL		SAMPLING 1/2/1 FIELD FILT FIELD FILT FIELD FILT FIELD FILT AMEA AMEA AMEA METH	DATE: L( ERED julpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pulpinism pu	Type:	SAMPUN IPME DODE	LING TIME SSS FILTER	SIZE:

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ±5% Dissolved Oxygen: ±0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

SITE C	louds Chev	70N					SITE LOCATION:	Te	ylora S	ireel & Two	Note	h Road	, Col	ımbia, S¢	;
WELLNO	);	1.			SAMPL	E IÓ:					******	DATE			
		. 0+1					,		······································			·			لينجيب
							IG DATA	-							
WELL	R (inches):	TODIV	Vell Depth (feet	114		DEPT	SCREEN INT		TH re	BTATIC C				irge pumi RBAILER	PTYPE
WELLVO	LUME PURGE	: I WELL V	OLUMB = (10	TALW	FLL DEPTH		TIC DEPTH	OV	VATER)		APÀCI	TY gallons	doct		galions
	<u> </u>	CUMUL.	<del></del>	۳.		·	<del>. ,</del>	-		**		,		_	gonoris
TIME	VOLUME PURGED (galians)	VOLUMP PURGED (gallera)	TEMP (°C)	A	pH (su)	Α	COND.	1	۸	(mg/L)	۸	TURB IDITY (NTU)	Α,	COLOR	ODOR
	( accepted	Mannie													
						,								· · · · · · · · · · · · · · · · · · ·	
													,	1	
						-									
						<u> </u>									
		ļ,						1							
		ls .				-									
	7	1 7					1	1			-				-
CONTRACTOR OF THE PARTY.													-		
	3	ľ	1												
		i.	1					Ù							
										,					
WELL DA	PACITY (Gallo	ns Per Foot)	<b>9.78* = 0.02</b> ;	<b>1"</b> :	0.04; 1.28	P = 0.0	i; 2° ÷ 0.16		<b>5" = 0.</b> 5	7; 4" = 0.66;	\$" =	1.02;	<b>3" = 1</b> /	17, 12° =	5.88
				-	SAI	<b>IPLI</b>	NG DAT	Ä.		,					_
Sample	OBY (PRINT)			SAMI	PLER(S) SIGN	IATURE	(S):			Sampling I	ATE		SAMP	LING TIME	
PUMP OF DEPTH IN	TURING WELL (rest):	11		TUBI	NG RIAL CODE			,		FIELD-FILTE Filtration Equ	RED:	Type:		FILTER	size:
	TE COLLECTE	b. Y	N			,	<del></del>	<del>`</del>			Pillion				
SAN	ple Contain	er specifi	MOITA		BAMPL	a PRE	HRVATION	) }		ANALYE ANALYE AND/OI METHO	HB R	10	MPLIN IPME IDDE	<b>9</b>	MPLE PUSEP FLOW RATE PUSTIN
D CODE	CONTAINER 8	MATERIA L GODE	AOTAME		SERVATIVE USED	ADDE	AL VOL ON FIELD		NAL pH						17.82.133
												1			
		-						<del>'</del>				<del> </del>			
		-				<u> </u>		<u> </u>	<del></del>	ļ		+			<del></del> -
								<u> </u>		<u> </u>	400/	+		+	
			<u>,                                      </u>									1			
REMARK	Nat	Loco	He d												
MATERIA		<b>0</b> = Amber G		lear G	1839. <b>Pê</b> =	Polyet	nylenë; Pir	» F	olyprop	vene; B=S	icone;	9T a T	ion,	0 = Other	(Specify)
Bamplin	o Equipmen	reodes:	APP = After P RPPP = Reve	eristal 3e Pic	uc Pump, w Penstauc f	e e e	SM = Straw	BIS Ma	dder Pu thed (Tu	mp: <b>ESP</b> : bing Gravity Di	Electricaln);	ic Subme O = O			

NAME:	Clouds Chav	ren				LOCATION	Toylors	Street & Tw	o Note	h Road	i, Col	umble, SC	5
WELLNC	in the sale				SAMPLE ID:		,			DATE		1-14	_
						NG DAT	A .						
	R (Inches):	Į.	Vell Depth (fe	53	WEI	L SCREEN II TH:20 fee	NTERVAL et to 3.5	STATIC TO WAT	DEPTH	, 22.3	A Pi	JRGE PUMI R BAILER:	P TYPE
WILLAG	LUME PURGE	: TWELLY	olume = (T	STALWEIL B	EPTH - S'	ATIC DEPTE	TOWATE	a) x WELL	CAPACI	, .	//oot		gallon
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallors)	TEMP. (°C)		OH A	CONI (µ9)	.	DC) (mg/L)	٨	TURB IDITY (NTU)	٨	COLOR	000
3:38			23.1	- 3	TO -	23	8 -	2.9		465		clay	N
												,	
				-			-		$\vdash$				
		- ;											
					-								
						-				<del>,</del>	-		
	PACITY (Gallo	ns Per Root):	9.75" = 0.02		SAMPL	8: 2"=0.1		37. 4"=0.65	5-4	1.02;	F = 1.4	if. 12"=:	5.88
	BY (PRINT)	Warl.	è K	SAMPLERIS	SIGNATUR	E(S):	i	SAMPLING 4-1	DATE			LING TIME;	
U.S. Took	WELL (rest):			TUBING					, 7		7.5	: 32	
THE WAY	B COLLEGE			MATERIAL C	ODE:			PIELD-FILTE Pitration Equ	RED	type:	/3	FILTER	SIZE.
UPLICA	E COLLECTE	D: Y	0	MATERIAL (	ODE:			FIELD-FILT Filtration Eq.	ipment			FILTER	er le
PUPLICAT	E CONLECTE	1		MATERIAL	ample pre	BERVATION	- 1	I FELDAR	ipment ipment	BAI EQU	MPLIMI IP MEN	FLYER	UNP LOW LATE
SAMPLE SAMPLE	E COLLECTE	1	ATION YOLUME	MATERIAL	AMPLE PRE	TAL VOL	PINAL	PIELS-FILTE Pitration Equ OFTEND ANALY! AND/O	ipment ipment	BAI EQU	MPLINI IP MEN	FLYER	WPLE UMP 'LOW
SAMPLE SAMPLE	E COLLECTE	IR SPECIFIC	ATION	MATERIAL C	NAMPLE PRE	TAL VOL	FINAL DIS	PIELS-FILTE Pitration Equ OFTEND ANALY! AND/O	ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ip	BAI EQU	MPLINI IP MEN	FLYER	UNP LOW LATE
SAMPLE SAMPLE	PLE CONTAINS CONTAINER S	ER EPEGIFIS MATERIA L CODE	ATION YOLUME	MATERIAL (	NAMPLE PRE	TAL VOL DIN FIELD (ml.)	gH	FELD-FILTE Filtration Eq. OFTEND ANALYS AND/O METHO	ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ip	BAI EQU	MPLINI IPABA COSE	FLYER	UNP LOW LATE
SAMPLE SAMPLE	PLE CONTAINS CONTAINER S	ER EPEGIFIS MATERIA L CODE	ATION YOLUME	MATERIAL (	NAMPLE PRE	TAL VOL DIN FIELD (ml.)	## 	FELD-FILTE Filtration Eq. OFTEND ANALYS AND/O METHO	ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ip	BAI EQU	MPLINI IPABA COSE	FLYER	UNP LOW LATE
PUPLICAT	PLE CONTAINS CONTAINER S 2	MATERIA LGODE	ATION YOLUME	MATERIAL (	NAMPLE PRE	TAL VOL DIN FIELD (ml.)	## 	FELD-FILTE Filtration Eq. OFTEND ANALYS AND/O METHO	ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ip	BAI EQU	MPLINI IPABA COSE	FLYER	EMPLE UMP LOW LATE
SAMPLE D CODE	PLE CONTAINS CONTAINER S 2	MATERIA LGODE	ATION YOLUME	MATERIAL (	NAMPLE PRE	TAL VOL DIN FIELD (ml.)	## 	FELD-FILTE Filtration Eq. OFTEND ANALYS AND/O METHO	ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ipment ip	BAI EQU	MPLINI IPABA COSE	FLYER	EMPLE UMP LOW LATE

AME:	uds Chevn	on				S	OCATION: T	eylors S	treet & Two	Note			ımbie, Si	C
ELL NO:	in the second				SAMPI	EID.		1			DATE	4-	2-14	
ELL		Tetal W	/ell Depth (fee	b 4 (		WELLS	DATA	RVAL	STATIC	DEPTH	_23. <del>67</del>	PL PL	IRGE PUM	P TYPE
AMETER (	inches). ME FURGE:	TWELLY	SEUME = (TC	TALWE	IL DEPTH	- STAT	20 feet to	WATER)	X WELL	EK (IEE	Q,	) (1	R BAILER:	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED	TEMP (°C)	^	pH (su)	1	COND. (µS)		DC) (mg/L)	٨	TURB IDITY (NTU)	۸	COLOR	ODOR
:27	(Reumis)	(gallors)	26.2		5.2	_	22	_	3.5	-	49	-	Clr	N
		<del> </del>						-			<del>                                     </del>	-		-
								1						
										-		-		
								1				匚		
						-	<del> </del>			-	-	-		-
	11													
								1 2						-
	*						<del>                                     </del>			<del>                                     </del>	1			
				- (1)			ľ						المراجعة المراجعة	
UMP OF T	word h	/cr/ic	Ł	TUBIN	ER(S) SIG	WATURE	G DATA		SAMPLING 4-2 FIELD-FILT Filtration Ed	14	t Type:		PUNG TIMI 3:17 FILTE	بنظ
	COLLECTE	D. V	19			·		;					, ,	TAMPLE
BAMPL	e contain	er specifi	CATION		SAMP	`	ERVATION	1	ANALY AND/ AND/ METH	·新维 D获		MPLH CODE	NT INT	PUMP FLOW RATE (m/min)
SAMPLE D CODE	CONTAINER	MATERIA L CODE	AOTAME		ervative USED	ADDED	E VOL IN RELD IL)	FINAL ph						
	V	CG	40m	L	CL	-	- '	-1	940	18.		3_		
								<u> </u>						
	~			<b>}</b>	<del>,</del>	+		-	-		+			
		لسطيسا		<del>                                     </del>	,	-		-	1	<del> </del>				
DEMARKS			<u>.</u>	1										
REMARKS.	CODES A		·-	Clear G		= Polyali		= Polypro		Sucone	ToT		O = Office	

STABILIZATION CRITERIA

pH:±0.2 units Temperature:±0.2 °C Specific Conductance: ±5% Dissolved Oxygen:±0.2 mg/L or ± 10% Turbidity:≤ 10 NTU or ± 10%

E Clouds Che	/ren					SITE LOCATION: TE	ylors S	treet & Two	Note	h Road	, Coli	ımbia, S	3
LLNO				SAMP	LE ID:					DATE	<u>}</u>		
				PU		G DATA				N	len	G	nst
LL METER (Inches):		veli Ceptin (fei	^{en} 35		DEPTH	SCREEN INTER	3 5 te	STATIC (	ER (fee	t) [,]	1 ' '	RGE PUM R BAILER:	PTYPE
LL VOLUME PURG	E: 1 WELL V	* (T) * EMUJO	OTAL WE	LL DEPTH		TIC DEPTH TO	rater)	X WELL	APACI	gallons	/foot	•	gallons
ME VOLUME PURGED (gallone)	CUMUL. VOLUME PURGED (Railors)	TEMP (°C)	٨	pH (su)	٨	COND. (µS)	^	(MOL)	۸	TURB IDITY (NTU)	۸	COLOR	ODOF
		·											
													ļ.,
			,									1.	
		1			1		1				1	1	
			1		<del> </del>		1				-		1
ELL CAMBITY (GR	oris Per Foot)	<b>9.76* •</b> 0.0	2: 1: •	0§4; 12	6* = 0.06	2*=0.16;	<b>3" - 0.</b> 3	7, 4"=0.65	*	1.02;	67 = 1	47, 12°	6.88
MPLED BY (PRINT) MP OR TUBING PTH IN WELL (feet)			SAMP	SA ER(S)SIG	MPLII	NG DATA	<b>A* - 0.</b>	8AMPLING	DATE:	<b>V</b>		AT, 12°	
MPLED BY (PRINT) MP OR TUBING PTH IN WELL (feet)	ED: Y		SAMP	SA LER(S) SIG STAL CODE	MPLI	NG DATA	<b>3* - 0.3</b>	SAMPLING	DATE: SRED: Upmen	туре:		PLING TIME	FREE PURP FLOW RATE
MPLED BY (PRINT) MP OR TUBING PTH IN WELL (rest) PLICATE COLLECT  SAMPLE CONTAI	ED: Y		SAMPI TUBIN MATES	SA LER(S) SIG STAL CODE	MPLII NATURE	NG DATA	or = 0.5	SAMPLING FRELD-FILTI Fibration Eq  NTENE ANALY AND	DATE: SRED: Upmen	туре:	SAMI	PLING TIME	FRIZE
MPLED BY (PRINT) MP OR TUBING PTH IN WELL (feet) PLICATE COLLECT SAMPLE CONTAINER	ED: Y	N CATION	SAMPI TUBIN MATES	SA ER(S) SIG BAMP BAMP	MPLII NATURE	NG DATA (S):  DERVATION  ALVOL DIN FIELD	FINAL	SAMPLING FRELD-FILTI Fibration Eq  NTENE ANALY AND	DATE: SRED: Upmen	туре:	SAMI	PLING TIME	FREE PURP FLOW RATE
MPLED BY (PRINT) MP OR TUBING PTH IN WELL (1981) PLICATE COLLECT  SAMPLE CONTAIN MPLE CORR CORR CONTAINER	ED: Y	N CATION	SAMPI TUBIN MATES	SA ER(S) SIG BAMP BAMP	MPLII NATURE	NG DATA (S):  DERVATION  ALVOL DIN FIELD	FINAL	SAMPLING FRELD-FILTI Fibration Eq  NTENE ANALY AND	DATE: SRED: Upmen	туре:	SAMI	PLING TIME	FAMPLE PUMP FLOW RATE
MPLED BY (PRINT) MP OR TUBING PTH IN WELL (feet) PLICATE COLLECT  BAMPLE CONTAINER CODE CONTAINER S	ED: Y	N CATION	SAMPI TUBIN MATES	SA ER(S) SIG BAMP BAMP	MPLII NATURE	NG DATA (S):  BERVATION  AL VOL OR FIELD	Final ph	SAMPLING FRELE-FILTI FRETENER NTENE ANALY ANDA METH	DATE:	Type:	SAMI AMPLI) UIPMI GODE	PLING TIME	PUMP PUMP FLOOP FLOOP FLOOP FLOOP (militarin)
MPLED BY (PRINT) MP OR TUBING PTH IN WELL (1981) PLICATE COLLECT  SAMPLE CONTAIN MPLE CORE CORE CORE CORTAINER	MATERIA L CODE	N CATION	SAMPI YUBIN MATER	SA ER(9) SIG GRAL CODE BAMP ERVATIVE USED	MPLII MATURE LE PREI TOT ADDE	NG DATA (S):  BERVATION  AL VOL OR FIELD	Final ph	SAMPLING FRELD-FILTI Fibration Eq  NTENE ANALY AND	DATE:	Type:	SAMI AMPLI) UIPMI GODE	PLING TIME	PUMP PUMP FLOOP FLOOP FLOOP FLOOP (militarin)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ± 10 NTU or ± 10%

NAME:	Clouds Chey	ron_					SITE LOCATION:	Te	ylore !	Street & 1	We Net	ch Rose	i. Cel	umbia. S	C
WELLNO	);	1			SAMP	LE ID:						DATE		1-14	
				<del></del>											<del></del>
VELL		1	Islal Basis of	-A.b.			IG DATA			1 2			<del></del>		
HAMETE	R (inches)	•	Well Depth (fe	27		DEPT	SCREEN IN H:20 feet	to 3	5 n	et i tow	IC DEPTI ATER (Te	12%,4 et)	<b>'4</b>   6	urce pun R bailer:	IP TYP!
MELLYC	Lume purde	w =	OLUME = (T	OTAL W		-	ATO DEPTH	TOV	WATER feet		L CAPAC	gallon	foot	8	gallor
TIME	VOLUME PURGED (galians)	CUMUL. VOLUME PURGED (Qalibra)	TEMP (°C)	A	pH (su)	٨	COND (µS)		A	DO (mg/L)	Ā	TURB IDITY (NTU)	٨	COLOR	ODC
12:42	~		21.7	_	5.5		11)		-	316		506	-	chy	IV
			-	<u> </u>		-			<b> </b>			ļ			
		ļ	<del> </del>	-	<b> </b>	<del>                                     </del>			ļ	ļ		<del> </del>	<u> </u>		<del> </del>
			-	-		7,						<del> </del>	-	<u> </u>	╂
											_	<del>                                     </del>	_		†
						ï									
		1	<del> </del>			ļ									
		,	<del> </del>		ļ	+		$\vdash$		<b> </b>	-	<del> </del>	<u> </u>	<del> </del>	-
			1	-	1	1	-				+-	†	<del> </del>	-	十
						-	-			444		4	<u> </u>		
			1	3	1	i			-		1	1			1
vell ca	PACITY (Galio	ns Per Foot)	0.75" = 0.02	1**	0.04; 1.24	JP = 0.0t	g* = 0.16		3" = 0.3	7; <b>4"</b> = 0.	65, 6"	1.02;	5" = 1/	17, 18"	5.88
AMPLEC	BY (PRINT)					MPLI	NG DAT		3" = 0.8	SAMPLIN	3 to		SAME	UNG TIME	
SAMPLEC	BY (PRINT)	urs Pet Foot)		SAME	SAI PLER(S) SIGN	VPLII	NG DAT		3" = 0.3	SAMPLIN 4 -	IG DATE	<b>4</b>	SAME	LING TIME	
SAMPLEC C PUMP OR DEPTH IN	BY (PRINT)	War		SAME	SAI PLER(S) SIGN	VPLII	NG DAT		<b>37 = 0.8</b>	Sampun 4 -	IG DATE	<b>4</b>	SAME	ung time 2:42	
SAMPLEC C PUMP CR DEPTH IN DUPLICA	DBY (PRINT)  AME-ON TOBING WELL (text):	War	l¦ek ⊙	SAME	SA PLER(S) SIGN C IG RIAL CODE:	WPLII	NG DAT		3" = 0.8	SAMPLIN FIELD-FR Filtration I	IG DATE: / - / TERED: Equipment	Y N Type:	SAME	UNG TIME 2:42 PILTER	BIZE PUMP PLOW RATE
SAMPLEC CPUMP CR CEPTH IN CUPLICAL SAMPLE	D BY (FRINT)  AME	War	L'c (c	SAMP TUBIN MATE	SA PLER(S) SIGN C IG RIAL CODE:	WPLIII WATURE  1/.	NG DAT, (6):  BERVATION  ALVOL IN FIELD	<b>A</b>	3" = 0.3	SAMPLIN FIELD-FR Filtration I	IG DAYE  / - / TERED  Equipmen  NOED  YSIS	Y N Type:	SAMF / MPLIN	UNG TIME 2:42 PILTER	BIZE PUMP PLOW RATE
SAMPLEC CPUMP CR CEPTH IN CUPLICAL SAMPLE	DBY (PRINT)  2 M 2 - 00  1 TOBING  WELL (feet)  TE COLLECTE  PLE CONTAIN	War D V ER EPECIFIC	Lick  O  DATION	SAMP TUBIN MATE	SAI PLER(B) SIGN (G RIAL CODE: BANDI SERVATIVE	WPLIII WATURE  1/.	NG DAT	<b>A</b>	NAL.	SAMPLIN Y - FIELD-FIE Filtration I INTE AMAI AND MET	IG DAYE  / - / TERED  Equipmen  NOED  YSIS	t Type:	SAME / MPLIN JIP NIS	UNG TIME 2:42 PILTER	BIZE PUMP PLOW RATE
SAMPLE C PUMP CR PEPTH IN DUPLICAT SAMPLE	D BY (FRINT)  AME	D: Y ER EPECIFIC MATERIA L 000E	L'c (c	SAMP TUBIN MATE	SAI PLER(S) SIGN IG RIAL CODE SAMPI SERVATIVE USEO	WPLIII WATURE  1/.	NG DAT	F	NAL.	SAMPLIN Y - FIELD-FIE Filtration I INTE AMAI AND MET	IG DAYE  / - / 4  TERED  Equipmen  NDED  YEIS  WOR  NOD	t Type:	SAME / MPLIN JIP NIS	UNG TIME 2:42 PILTER	AND LIPE
SAMPLEC CPUMP CR CEPTH IN CUPLICAL SAMPLE	D BY (FRINT)  AME	D: Y ER EPECIFIC MATERIA L 000E	L'c (c	SAMP TUBIN MATE	SAI PLER(S) SIGN IG RIAL CODE SAMPI SERVATIVE USEO	WPLIII WATURE  1/.	NG DAT	<b>A</b>	NAL.	SAMPLIN Y - FIELD-FIE Filtration I INTE AMAI AND MET	IG DAYE  / - / 4  TERED  Equipmen  NDED  YEIS  WOR  NOD	t Type:	SAME / MPLIN JIP NIS	UNG TIME 2:42 PILTER	AND COMPANY OF THE PLANE PLOW RATE MILITING
SAMPLEC CPUMP CR CEPTH IN CUPLICAL SAMPLE	D BY (FRINT)  AME	D: Y ER EPECIFIC MATERIA L 000E	L'c (c	SAMP TUBIN MATE	SAI PLER(S) SIGN IG RIAL CODE SAMPI SERVATIVE USEO	WPLIII WATURE  1/.	NG DAT	F	NAL.	SAMPLIN Y - FIELD-FIE Filtration I INTE AMAI AND MET	IG DAYE  / - / 4  TERED  Equipmen  NDED  YEIS  WOR  NOD	t Type:	SAME / MPLIN JIP NIS	UNG TIME 2:42 PILTER	AND LIPE
SAMPLEC C PUMP CR DEPTH IN DUPLICA	D BY (FRINT)  AME	DA Y  BR SPECIFIE  MATERIA L CODE  C.G.	L'c (c	SAMP TUBIN MATE	SAI PLER(S) SIGN IG RIAL CODE SAMPI SERVATIVE USEO	WPLIII WATURE  1/.	(5): ERVATION	F	NAL.	SAMPLIN Y - FIELD-FIE Filtration I INTE AMAI AND MET	IG DAYE  / - / 4  TERED  Equipmen  NDED  YEIS  WOR  NOD	t Type:	SAME / MPLIN JIP NIS	UNG TIME 2:42 PILTER	AND COMPANY OF THE PLANE PLOW RATE MILITING
SAMPLEC CPUMP CR CEPTH IN CUPLICAL SAMPLE	DBY (FRINT)  2 MY	DA Y  BR SPECIFIE  MATERIA L CODE  C.G.	L'c (c	SAMP TUBIN MATE	SAI PLER(S) SIGN IG RIAL CODE SAMPI SERVATIVE USEO	WPLIII WATURE  1/.	(5): ERVATION	F	NAL.	SAMPLIN Y - FIELD-FIE Filtration I INTE AMAI AND MET	IG DAYE  / - / 4  TERED  Equipmen  NDED  YEIS  WOR  NOD	t Type:	SAME / MPLIN JIP NIS	UNG TIME 2:42 PILTER	AND COMPANY OF THE PLANE PLOW RATE MILITING
PUMP CR DEPTH IN SUPLICAT SAMPLE D GODE	D BY (PRINT)  PLE CONTAINER  CONTAINER  CONTAINER	DA Y  BR SPECIFIE  MATERIA L CODE  C.G.	Lick  CO  DATION  VOLUME  GUML	SAMP TUBIN MATE	SAN PLER(B) SIGN (C) 18 RIAL CODE: SANIPI SERVATIVE USEO	WPLIII WATURE  1/.	NG DAT		NAL.	SAMPLIN  FIELD-Fit Fittration I  NTE ANA AND MET	IG DAYE  / - / 4  TERED  Equipmen  NDED  YEIS  WOR  NOD	Type:	SAMP / /	UNG TIME 2:42 PILTER	PUMP PLOWING

SITE C	louds Chev	ron				S	ITE OCATION	Taylo	rs SI	inect & Two	Note	h Rosc	, Col	umble. S	C
MEITNO	a v toler than specimen II				SAMP	UĖ ID:						DATE	4/	אונכ	
	•					-		•							
WELL		Total	Vell Depth (fee			RGING				STATIC	DEPTH	.1.7	O PI	IRGE PUM	P TYPE
NAMETE	R (inches); LUME PURGE	1	•	35		DEPTH:	20 test	TOWA	reel	STATIC I	ER (fee	n Driv	O	RBALER:	
			<b>=</b> (	35					feet)			gallons		Ω	gallon
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (galigne)	TEMP (°C)	A ¹	(an)	۸	(mg)	).	۸	DC (mg/L)	A.	TURB IDITY (NTU)	٨	COLOR	CDC
3:01			24.3		5.9	_	135		_	24	_	28	-	clr	N
						ļ			_						<u> </u>
-		- 7,	1	<del>  </del>		-		+	$\dashv$	<del></del>	-		-		
		1.						_	十	<del></del>					-
			·				ì					,			
			1			-		-	-				-		<u> </u>
	-	:							+						<del> </del>
		ir			<del></del>										
				·	· · · · · · · · · · · · · · · · · · ·		,								
			ļ							4. A					
	<u> </u>	1		<u></u>		1	<b>-</b>			<del></del>	أسبسا		ļ.,	L	<u> </u>
AMPLEC	BY (PRINT)			SAMPL	SAI ERIS) SIGI	MPLIN		A		SAMPLING	DATE	1		LING TIME	r
	TURING	Warli	k	TUBING					_	4-2				3:01	
epth in	WELL (rest):			MATER	ALCODE	· ·	ا 			FIELD-FILTE Filtration Equ	ipment	Type:		FLTER	DIKE.
PLPICK	E COLLECTE			بنبين			<del></del>			<u> </u>		Ar	·		AL FLE
BAM	PL9 CONTAIN	er specific	CATION		SARP	e prese				ANALYI AND/O METHS	HÓ R	101	MPLIN MP NOE HODE	or .	PUMP PLOW RATE pimin
SAMPLE O CODE	CONTAINER S	MATERIA L CODE	AGTAME	U	RYATIVE SED	ADDED IN	I PIELD	FINAL pH		٠					
	V	CG	40mL	L	W			-		826	UG.				
	-					ļ		Hazi er ma incent		<del> </del>		-	<del></del>		
				<b></b> -					-						· · · · · ·
		i.								-,		1			
EMARK	2	9					•								
MTERIA	LCODES A	8 4 Amber G	lass: CG = 1	Clear Gla	59. PB =	Palyethy	ene:	P = Paly	orcovi	lehe: 8 = S	licone.	T = Te	fion:	0 • Other	(Speci
	***************************************	C0088:	APP = Atter	والمراجع المراجع	A	B = Balls	2 231	o Bladde				c Subme			

ELL NC	):		<u>.</u>	191 <del>0, 91111111</del>	SAM	PLE ID:	CUATION, '		Street & Tw	- 11416			1-14	
,				· · · · · · · · · · · · · · · · · · ·	474	the ter,		-	<del> </del>	······································		7	7-7-	
سينست					Pl		G DATA							
ELL IAMETE	R (inches)	Total	Well Depth (fe	et) 25	?	WELL	CREEN INTE	3°	STATIC LET TO WAT	DEPTH	د اک	y P	URGE PUN R BAILER:	P TYPE
ELLVC	SLUME PURGE	: 1 MELL	= (	OTAL W	ELL DEPTH	- STA' et-	IC DEPTH YO	WATER	) X WELL C	APACI	YY	//cot	**	gallon
rme	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (RATION)	TEMP.	٨	рН (su)	۸	COND. (µ8)	^	DO (mg/L)	٨	TURB IDITY (NTU)	۸	COLOR	ОДО
:30	~	-	20.7		6.8		987	-	1.9	-	203	-	Stron	37
	<b></b>		<u> </u>	<del>                                     </del>	<u> </u>	<u> </u>							-	
			<del>                                     </del>	]		<del>}</del>		ļ				<u> </u>		<u> </u>
		-	<del> </del>			<del> </del>		-					ļ	<del>                                     </del>
<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>			1	-		<del>                                     </del>		╫┈				-	<b></b>	
•		I j	<del>                                     </del>	1	<del> </del>	<del>                                     </del>		1	<u> </u>		-	-		<del>                                     </del>
								1					ļ	-
		1											<del></del>	1
	<u> </u>		<u> </u>											
		-	<del> </del>			<del> </del>			,		,			
ill ca	PARITY (Gallo	ns Per Foot).	<b>0.75" =</b> 0.0	} †**	0.04; 1.2	B" = 0.06,	<b>2" = 0.16</b> ;	<b>3</b> + 0.9	7; 4"=0.65;	<u>.</u>	1.02;	P#14	17, 12"	5.88
	BY (PRINT)	ins Per Foot).			SA LER(S) SIG	MPLIN	G DATA	<b>3°</b> - 03	SAMPLING	SATE:		SAMP	UNG TIME	
AMPLEO CO UMP OR EPTH IN	BY (PRINT)	المحار	isk C	SAMP	SA LER(S) SIG	MPLIN NATURE:	G DATA	<b>3</b> + 0.3	T SAMPLING!	DAYE: /-/ RED		SAMP	UNG TIME	
AMPLED COMPOR EPTH IN UPLICAT	BY (PRINT)  TUBING WELL (red):	Wa.),	ik Ö	SAMP	SA LER(S) SIG RIAL CODE	MPLIN NATURE:	g data	***************************************	SAMPLING I	DATE: /L/ RED: Ipmert:	Type:	SAMP	UNG TIME 3 O FRITER	SIZE
AMPLEO COUMP OR EPTH RE UPLICATI	PEY (PRINT) TUBING WELL (feet): THE COLLECTE	Wa.),	VOLUME VOLUME	SAMPI TUBIN TUBIN MATER	SAL LER(S) SIG GRIAL CODE BAMPI BERVATOYE	MPLIN NATURE(S  W  TOTAL ADDED	B DATA	P = 0.3	SAMPLING I GOVERNMENT OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF T	DATE: /L/ RED: Ipmert:	Type:	SAMP 9;	UNG TIME 3 O FRITER	SIZE
AMPLEO COUMP OR EPTH RE UPLICATI	TUBING WELL (feet): TE COLLECTE	War), de v er specipie	isk O	SAMPI TUBIN TUBIN MATER	SAL LER(S) SIG BRIAL CODE BAMPI	MPLIN NATURE(S W-	B DATA	mal. µn	SAMPLING I GOVERNMENT OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF T	SAYE: /L/ PED: Ipment:	Type:	SAMP 9; MPLIN HPMEN HODB	UNG TIME 3 O FRITER	SIZE PUMP
AMPLEO CO UMP OR EPTH RM UPLICATI	TUBING WELL (feet): TE COLLECTE	Way), er sprope mayera Loode	VOLUME VOLUME	SAMPI TUBIN TUBIN MATER	SAL LER(S) SIG GRIAL CODE BAMPI BERVATOYE	MPLIN NATURE(S  W  TOTAL ADDED IN (10)	B DATA	mal. µn	SAMPLING I -/ -/ - FIELD-FILTE Filtration Equ ENTENDI ANALYA AND/OI METNO	SAYE: /L/ PED: Ipment:	Typė:	SAMP 9; MPLIN HPMEN HODB	UNG TIME 3 O FRITER	SIZE
AMPLEC C UMP OR EPTH IN UPLICAT	TUBING WELL (feet): TE COLLECTE	Way), er sprope mayera Loode	VOLUME VOLUME	SAMPI TUBIN TUBIN MATER	SAL LER(S) SIG GRIAL CODE BAMPI BERVATOYE	MPLIN NATURE(S  W  TOTAL ADDED IN (10)	B DATA	mal. µn	SAMPLING I -/ -/ - FIELD-FILTE Filtration Equ ENTENDI ANALYA AND/OI METNO	SAYE: /L/ PED: Ipment:	Typė:	SAMP 9; MPLIN HPMEN HODB	UNG TIME 3 O FRITER	SIZE
AMPLEC JMP OR EPTH IN UPLICAT SAME	DBY (PRINT)  A CONTAINER  B CONTAINER  B CONTAINER  B CONTAINER	Way), er sprope mayera Loode	VOLUME VOLUME	SAMPI TUBIN TUBIN MATER	SAL LER(S) SIG GRIAL CODE BAMPI BERVATOYE	MPLIN NATURE(S  W  TOTAL ADDED IN (10)	B DATA	mal. µn	SAMPLING I -/ -/ - FIELD-FILTE Filtration Equ ENTENDI ANALYA AND/OI METNO	SAYE: /L/ PED: Ipment:	Typė:	SAMP 9; MPLIN HPMEN HODB	UNG TIME 3 O FRITER	SIZE
AMPLEO CO IMP OR PPTH RI IPLICATI	DBY (PRINT)  A CONTAINER  B CONTAINER  B CONTAINER  B CONTAINER	Way), er sprope mayera Loode	VOLUME VOLUME	SAMPI TUBIN TUBIN MATER	SAL LER(S) SIG GRIAL CODE BAMPI BERVATOYE	MPLIN NATURE(S  W  TOTAL ADDED IN (10)	B DATA	mal. µn	SAMPLING I -/ -/ - FIELD-FILTE Filtration Equ ENTENDI ANALYA AND/OI METNO	SAYE: /L/ PED: Ipment:	Typė:	SAMP 9; MPLIN HPMEN HODB	UNG TIME 3 O FRITER	SIZE

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

SITE	Clouds Che	vman	<del></del>	<del></del>	, ,	- 1	SITE	_	*		·			
NAME.					T		OCATION:	Taylors	Street & Tw	no Not	ch Ros	d, Co	umbie, S	<u> </u>
WELLN	L. K.				MAE	PLE ID:	<del></del>					4/	3/14	
			•		. Pl	JRGING	S DATA	,						
WELL	EM /inchmak	Total	Vell Depth (fo	et) 5		WELL	CREEN INT	ERVAL	STATIC			, P	URGE PUM	P TYPE
MELLY	ER (inches): OLUME PURG	E TWELLY	OLUME - (1	OTALWE	IL DEPTH	- STAT	45 feet to	DWATER	TO WAT		1123,	<u> 111 o</u>	R BAILER:	P
		******	= (	6		et-		fee	×	and the	gallon	9/foot		gallons
TIME	VOLUME PURGED	COMOL	TEMP	_	ρН	Λ	COND.	A	00	Ι.	TURB			
T	(gallona)	PURGED (gallons)	(°C)		(\$U)		(µS)		(mg/L)	^	(NTU)	<b>L</b> ^.	COLOR	CDOR
1227			15.1	-	6.2	-	168	+	1,3	-	220		SICIAN	Y
1240	4.0	4.0	15.5	0.4	5,8	14.4	111	3			153	67	SILIN	
1351 1305	2.5	6.5	14.0	11.5	5.6	10.2	86	15		<u> </u>	101	52	SILIP	
1214	1	11.5	24.2	14.7	5.5	0.1	77	19			85	16	SICIAN	
1206	3.0	14.5	24.3	141	5.8	0.3	15	12			33	52	Cley	
1335	3.6	18.0	24.7	1.0	5.4	149	13	3		<b> </b>	21	12	Clerc	
155.5	1309	10.0	14.7		5.9	- del	<del>10-</del>	12		1	7	14	Cles	
·			, ,	1 1	<del>,</del>	<b>†</b>				<del> </del>				, , , , , , , , , , , , , , , , , , ,
								+		1 -			,	_
								1		_				7
											A gar		-	-
													-	
							1		, ,					
	PACITY (Gallo	ns Per Foot)	9.78° = 0.02	1*=0		PLIN	2" = 0.16; DATA	<b>5</b> " + 0.3	7; 4" = 0.65;	gr e	1.02; 4	F + 14	7, 12"	5.88
Tru	oby (PRINT)	de		N. S.	R(8) 8101	ATUREIS	-		SAMPLING	DATE			ING TIME:	
PUMP OR	TUENO			TUBING	1				PELD-FILTE	DEN.	<del>√  </del>	13	35 FILTER	11. /wt
	WELL (feat):	D /	N	ĺ	ALCODE	-			Filtration Equ	pment	Туре:		rus em (	3145
				MA		·					<del></del>			
SAM	PLB CONTAIN	er crecipio	ATION		SAMPL	a Preser	IVATION	, )	ANALYS ANALYS AND/OT METHO	iii t	EQU	PLOK PMEN ODB	T P	WPLE UMP LOW (ATE (min)
BAMPLE D CODE	CONTAINER	MATERIA L CODE	VOLUME	PRESE!	EO EO	TOTAL I ADDED IN (Inl.)	FIELD "	FINAL pH				وبتدري		
	1	16	41ml	Н	14			- ,	9761	B	7	3		
		,						1		سائي	-	-C.		
								il.						
		-						â						
REMARKS	:		است سرتی وست					35						
	<del>,</del>	ļ												
MATERIA	LOODES AG	- Amber Gis	55; <b>GG = C</b>	lear Glass	PB .	Polyethyle	ie: FP a	Polypropy	lene; <b>0</b> = SIII	rnne.	T = Test	20.	0 • Omer(6	nace A A
CAMPLING	EQUIPMENT	CODES:	APP = Atter	eristatic i	ume:	B a Bailer	** • B	acider Dur		Clarke	Common	HING D		after nA1

STABILIZATION CRITERIA
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Classofeed Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

NAME.	Clouds Chev	ron					OCATION, T	rylers :	Street & Tw	no Not	ch Rosc	i, Col	umble, Sc	5
VELLNO	D	l I			SAMF		Dw-1				DATE	4/;	2114	
					131	4	DATA		•					
VELL		Total V	Vell Depth (fee	1)	_			EVAL	STATIC	DEPT	1,45.c	P	URGE PUM	P TYP
HAMETE	R (Inches): S <b>LUMM PURG</b> I	- TWELL V	OLUME - (YO		O LL DEPTH	DEPTH	CREEN INTER	70 to	et TOWAT			0 0	R BAILER:	ع
		· ·	<b>4</b> (	70	_ fee		5.00		× 0.1			s/foot	· 4.00	) galles
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (palions)	TEMP (°C)	۸	pH (Su)	۸	COND. (µS)	^	( <b>m&amp;r_</b> ) EG	٨	TURB IDITY (NTU)	۸	COLOR	000
1/5	5		25.7		6.7	-	71	-	3,2	-	741		cldy	Λ
177	5.5	5.5	26.0	0.3	6.9	0.7	85	111		<del> </del>	49%		CHY	~
عدجست سع	<del> </del>		<del> </del>			<del>                                     </del>		<del> </del>	}	╀	<del> </del>	╀		├
						1		1		$\vdash$	<del>                                     </del>			
	1													
										<del> </del>	<del> </del>	<u> </u>		
					-					+-	<del> </del>	┼─		-
-								1		1	<del>                                     </del>			
	-													
MLL C	APACITY (Gallo	ins Per Poot):	<b>0.76* *</b> 0.02	<b>4*</b> •	0D4; 1.2	6" = 0.66;	2" = 0.16;	<b>5* =</b> 0.8	7; 4° • 0.60	. 8"	1,02;	<b>6"</b> = 1,	47, 12*=	5.80
AMPLEI Tre	DEV(PRINT)		0.76** 0.02		SA ER(8) SIG	MPLIN	G DATA	* * 0.S	SAMPLING	DATE		SAME	LING TIME:	,
AMPLEI TO UMP CH EPTH 0	DBY (PRINT)	ock		SAN	SA ER(8) SIG	MPLIN NATURE(	G DATA		Sampling	DATE		SAME	Ling time:	,
AMPLEI TCS UMPCH EPTH IN	DEY (PRINT)	ook o	<b>O</b>	SAN	SA LER(8) SIG PAL CODE	MPLIN NATURE(	G DATA	<b>5 - 0.3</b>	SAMPLING 4/2/	DATE CALENDARY LAPINGTON	Y N N Type:	SAME	LING TIME 20 PETER	SIZE
AMPLEI TCC UMP CH EPTH IN UPLICA SAM	DBY (PRINT)  YEL S  TUBING  WELL (text):  TE COLLECTE	ook o	<b>O</b>	SAME MATER	SA LER(8) SIG PAL CODE	MPLIN	G DATA  RYATION  VOL  FELD		SAMPLING U/J/ FIELD-WILT Fibration Eq	DATE CALENDARY LAPINGTON	Y N N Type:	SAMFLON MPLON	LING TIME 20 PETER	SIZE
AMPLEI TCC UMP CI EPTH IN UPLICA BAM	OBY (PRINT) YOU S YUBING WELL (feet): TE COLLECTE	DG Y	PATION	SAME MAYER PRES	SAL ER(S) SIG PLAL CODE	MPLIN NATURES	G DATA RYATION VOL FIELD	TINAL	SAMPLING U/J/ FIELD-WILT Fibration Eq	DATE:	Y N N Type:	SAMFLON MPLON	LING TIME 20 PETER	SIZE
AMPLEI TCC UMP CH EPTH IN UPLICA SAM	D BY (PRINT)  YET S  YET S  WELL (feet):  TE COLLECTE  PLE CONTAINER  8	D: Y  ER SPROPIO  MATERA LCODE	VOLUME	SAME MAYER PRES	SAL ER(8) SIG PLAL CODE BAND ERVATIVE ISEC	MPLIN NATUREIS NATUREIS ADDED D	G DATA RYATION VOL FIELD	THAL	SAMPLING U/2/  PIELD-PILTI FINATION EQ INTERE ANALY AND/A	DATE:	Y N N Type:	SAME ) U	LING TIME 20 PETER	SIZE
AMPLEI TCC UMP CH EPTH IN UPLICA SAM	D BY (PRINT)  YET S  YET S  WELL (feet):  TE COLLECTE  PLE CONTAINER  8	D: Y  ER SPROPIO  MATERA LCODE	VOLUME	SAME MAYER PRES	SAL ER(8) SIG PLAL CODE BAND ERVATIVE ISEC	MPLIN NATUREIS NATUREIS ADDED D	G DATA RYATION VOL FIELD	THAL	SAMPLING U/2/  PIELD-PILTI FINATION EQ INTERE ANALY AND/A	DATE:	Y N N Type:	SAME ) U	LING TIME 20 PETER	SIZE
AMPLEI TCC UMP CH EPTH IN UPLICA SAM	D BY (PRINT)  YET S  YET S  WELL (feet):  TE COLLECTE  PLE CONTAINER  8	D: Y  ER SPROPIO  MATERA LCODE	VOLUME	SAME MAYER PRES	SAL ER(8) SIG PLAL CODE BAND ERVATIVE ISEC	MPLIN NATUREIS NATUREIS ADDED D	G DATA RYATION VOL FIELD	THAL	SAMPLING U/2/  PIELD-PILTI FINATION EQ INTERE ANALY AND/A	DATE:	Y N N Type:	SAME ) U	LING TIME 20 PETER	SIZE
AMPLET TCC UMP OF EPTH U UPLICA BAM PAMPLE CODE	CONTAINER  SEY (PRINT)  TUBING  WELL (feet)  TE COLLECTE  CONTAINER  S  2	D: Y  ER SPROPIO  MATERA LCODE	VOLUME	SAME MAYER PRES	SAL ER(8) SIG PLAL CODE BAND ERVATIVE ISEC	MPLIN NATUREIS NATUREIS ADDED D	G DATA RYATION VOL FIELD	THAL	SAMPLING U/2/  PIELD-PILTI FINATION EQ INTERE ANALY AND/A	DATE:	Y N N Type:	SAME ) U	LING TIME 20 PETER	SIZE
AMPLET TCC UMP CR EPTH U UPLICA BAM AMPLE CODE	CONTAINER  SEY (PRINT)  TUBING  WELL (feet)  TE COLLECTE  CONTAINER  S  2	D: Y  ER SPROPIO  MATERA LCODE	VOLUME	SAME MAYER PRES	SAL ER(8) SIG PLAL CODE BAND ERVATIVE ISEC	MPLIN NATUREIS NATUREIS ADDED D	G DATA RYATION VOL FIELD	THAL	SAMPLING U/2/  PIELD-PILTI FINATION EQ INTERE ANALY AND/A	DATE:	Y N N Type:	SAME ) U	LING TIME 20 PETER	SIZE
SAMPLE DEPTH IN TUPLICA SAMPLE D CODE	CONTAINER S S S S S S S S S S S S S S S S S S S	D: Y  MATERA LGODE  C.G.	EATION  VOLUME  4Umle	SAME MAYER PRES	SAN LER(B) SIG PLANTINE LERVATIVE JOSEP	MPLIN NATUREIS NATUREIS ADDED D	RYATION VOL.	THAL	SAMPLING U/2/I FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILTI FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-FILT FIELD-F	DATE  ERED  Lipmen  Billicens	Type	SAMPLUIP ME DODE	2.0 PLIER	SIZE

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

	Clouds Chev	70N					ITE OCATION: T	ylors :	Street & Two	Note:				3
VELLNO	): . <u>.</u> .	3			SAMP		W-2				DATE	4/8	2114	
					PU	ROMO	DATA							
/ELL	D (inches)	Total	Well Depth (fe	11 7	5	WELLS	CREEN INTE	WAL	et TOWAT	DEPTH	44 2	PU	RGE PUM	PTYSE
ELL V	R (inches): S LUME PURGE				LL DEPTH	- STAT	70 feet to	WATER	et TOWAT	APACI	t): '1-6' TY		BAILER:	<u> </u>
	<b></b>	44	0 (	7	5 18	1- 4	134	fee:	× O'	b	galions	/foot	4.91	gallen
TIME	VOLUME PURGED (gallons)	VOLUME PURCED (gallens)	TEMP (°C)	A	pH (su)	۸	COND. (µ8)	٨	DO (mg/L)	۸	TURB IDITY (NTU)	٨	COLOR	000
140			25.2	-	7,0		155	-	3.2	-	62		clc	N
58	6.5	6.5	160	0.8	7.2	0.2	135	10			601		Cluly	N
	1		·											-
														_
					'								·	
<del></del>	<del> </del>		-					-						
•	<u> </u>	<del>                                     </del>	+											_
	- ,	,												
							,						- in the second	
<del>~ ; ; , , ,</del>	22 12 20 12 12 12 12 12 12 12 12 12 12 12 12 12	1			·									
-			0,75" = 0.02	• -		- 0,00,	2" = 0.16;	<b>G-</b> ≈ 0.3	7; 4" = 0.65;	#" =	1.02;	<b>*</b> * 14	7, 12"=	6.68
JMP OF	DBY (PRINT) VOT GI RTUBING I WELL (Text):	oct		SAME	SAI EA(a) SIGN	APLING	B DATA	<b>3− •</b> 0.3	SAMPLING	ATE:		SAMPL	ING TIME	
JAP OF EPTH IN	YET S	oct	6	SAME	SAI SA(a) Sign	APLING	B DATA	S- • 0.3	SAMPLING	ATE:		SAMPL	ING TIME	SZE
UMP OF EPTH IN UPLICA	TUBING	net v	B	SAME	SAI BA(3) SIGN BAL CODE	APLING	9 DATA	<b>S = 0.3</b>	SAMPLING	SATE:	Type:	SAMPL	ING TIME	SIZE
UMP OF	YET G	net v	B	SAME TUBINI MATER	SAI BA(3) SIGN BAL CODE	APLING ATUBERS TOTAL ADDED IN	S DATA  EVATION  VO. FIELD	S = 0.3	SAMPLING I 4/2/5 FIELD-FILTE Pritration Equi	SATE:	Type:	SAMPL 15	ING TIME	SIZE
IMP OF	TUBING WELL (rest): TE COLLECTE  PLE CONTAIN	DX V	CATION	SAME TUBINI MATER	SAI ER(3) SIGN RAL CODE:	APLING ATTURES	PATA  RVATION  VOL  FIELD		SAMPLING I 4/2/5 FIELD-FILTE Pritration Equi	PATE:	Type:	SAMPL 15	ING TIME	SIZE
UMP OF EPTH IN UPLICA	TUBING WELL (rest): TE COLLECTE PLE CONTAINER CONTAINER	D: V ER SPECIFI MATERIA L GODE	CATION	SAME TUBINI MATER	SAI ER(0) SIGN PRAL CODE: CAMPI CAMPI CAMPI	S PRESSI TOTAL ADDED IN	PATA  RVATION  VOL  FIELD	THAL PAN	SAMPLING U/ 2/ 5 PRED-PILYE PRICADION EQUIPMENTAL AND/O AND/O METHO	PATE:	Type:	SAMPL 15	ING TIME	SIZE
UMP OF EPTH IN UPLICA	TUBING WELL (rest): TE COLLECTE PLE CONTAINER CONTAINER	D: V ER SPECIFI MATERIA L GODE	CATION	SAME TUBINI MATER	SAI ER(0) SIGN PRAL CODE: CAMPI CAMPI CAMPI	S PRESSI TOTAL ADDED IN	PATA  RVATION  VOL  FIELD	THAL PAN	SAMPLING U/ 2/ 5 PRED-PILYE PRICADION EQUIPMENTAL AND/O AND/O METHO	PATE:	Type:	SAMPL 15	ING TIME	SIZE
UMP OF EPTH IN UPLICA	TUBING WELL (rest): TE COLLECTE PLE CONTAINER CONTAINER	D: V ER SPECIFI MATERIA L GODE	CATION	SAME TUBINI MATER	SAI ER(0) SIGN PRAL CODE: CAMPI CAMPI CAMPI	S PRESSI TOTAL ADDED IN	PATA  RVATION  VOL  FIELD	THAL PAN	SAMPLING U/ 2/ 5 PRED-PILYE PRICADION EQUIPMENTAL AND/O AND/O METHO	PATE:	Type:	SAMPL 15	ING TIME	SIZE
IMP OF	TUBING WELL (Test): TE COLLECTE PLE CONTAINER S  1	D: V ER SPECIFI MATERIA L GODE	CATION	SAME TUBINI MATER	SAI ER(0) SIGN PRAL CODE: CAMPI CAMPI CAMPI	S PRESSI TOTAL ADDED IN	PATA  RVATION  VOL  FIELD	THAL PAN	SAMPLING U/ 2/ 5 PRED-PILYE PRICADION EQUIPMENTAL AND/O AND/O METHO	PATE:	Type:	SAMPL 15	ING TIME	SIZE
IMP OF PTH IN JPLICA  SAM  AMPLE GODE	TUBING WELL (Test): TE COLLECTE PLE CONTAINER S  1	ER SPECIFICAL LODGE	CATION  VOLUME  4Uhn L	SAME TUBINI MATER	ERVATIVE	S PRESSI TOTAL ADDED IN	S DATA  RYATION  VO. FIELD	THAL PAN	SAMPLING I 4/2/3 FREED-FILTE PRITISION EQUI ANTENDI ANDIO METHO	DATE:	Type:	SAMPL 15 MPLING IPMIN 1001	ING TIME	SIZE  WANT  WANT  LOW  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE  REATE

SITE NAME:	Clouds Che	vron					SITE	Tavia	15 Olw			ah Baa		hamble of	
WELLN		5			Team	PLE (D)	OCATION	i i uyibi	rs our	ISLE IN	o Mol	DAT	8, Co	lumbia, S	C
			<del></del>	<u>-</u>	3 PARIL	PLE IU.		4	******				E 4/	3/14	
					PĮ	JRGINO	3 DAT	A							
WELL	ER (inches):	Totalv	Vell Depth (fe	^(et) 5		WELLS	CREEN IN	TERVAL		STATIC	DEPTI	24.9	OP	urge Pum	
WELLY	OLUME FURG	E: TWELLY	OLUME - (T	OTALW	L CEPT	- STAT	10 DEPTH	TOWAT	feet ER) X	WELL	ER (fe	et):		R BAILER.	P
		3 8000	= (	5	) le	<del>-1-1</del> 14	.40	1	eet) ×		6	gallon	3/f00t	-4.42	gallons
TIME	VOLUME PURGED	VOLUME	TEMP	1	рH	_	CONE			00		TURB	T		
	(enolisg)	PURGED (gallone)	(°C)		(SU)		(pS)		`	(mg/L)	^	(UTV)	^	COLOR	ODOR
506	5-		16.1	-	6.6	_	75		-	2.0	-	18	153	CIC	Y
1515	5.0	5.0	27.2	111	7.2	0.6	IAL	2	6			491	477	CILL	1
1523	2.0	7.0	26.8	0.4	6.5	0.7	[1]		0			204	207		
530	2.5	9.5	15.7		4.4	0.1	88	2	3			113	91	C) 1120	
1539	3.0	12.5	25.6	0.1	6.4	0.0	877					72	41	CIC	
1551	2.5	15.0	25.6	0.0	4,5	0.1	87	LD				1/2	1	CIC	
1600	20	17.0	25.6	3.1	6.6	0.1	98		$oldsymbol{\Gamma}$			9.0	7	che	
								.1		-				-	
		1						A i							
-	<u>.                                    </u>														
			,							ξ.,					
	<u> </u>			لببا											
WELL OA	PACITY (Gall	ins Per Foot):	<b>4.75" = 0.02</b>	t 1***	004; 1.21	<b>5* = 0.06</b> ;	2" = 0.16	<b>5</b>	0.37;	4" = 0.65;	8° *	1.02;	F = 14	17, 12" =	5.58
							<del></del>	<del></del>	s ^l ets!			*******			·
BALLET DE	BY (PRINT)		بد سودان بازداد		<u>sa</u>	UPLING	DAT	A						,	-
-	wer s	Stuck	-	-		VATULE(S)	Mar.		3	MPLINGE				LING TIME:	
PUMP OR		NACK.		JURING	mr 1					131			16	01	
	WELL (feet):	<u> </u>			ALCODE	ويأرث والمساور		4.	Filt	ration Equi	prient	Type:		FILTER	SIZE'
DOPLICA	E GULLEU IE	U. Y	(9)	_					- ,				-		
	<u> </u>	'			The second			,		NTENDE		24	MPLIN		ULD U
EAM	PLE CONTAIN	er specific	ATION		EARPL	.s Presen	KOITAVI			ANALYS	Ĭ	FQU	PMEN	ît i	LOW
	. *									METHOL			1002		LATE L'IDIO
D CODE	CONTAINER	MATERIA L CODE	AOTAME		RVATIVE SED	ADDED IN	FIELD	FINAL	1	-					-
******	7		40ml			(mL)				777.		r _e	,		
		7.0	TVML		CU	<del>-</del>			4-1	3260	12_		3_		
		-				<del></del>		+	-						
				, <u> </u>				-	-	-	·				
				<del>.</del>			<del></del>		-						
		4	<del>,</del>			****			-						
REMARKS						, , , , , , , , , , , , , , , , , , ,						L			
	·			,											
MATERIA	CODES A	2 = Amber Gia	38; <b>QG =</b> Q	lear Glas	s; <b>P8</b> =	Polyethyler	w. PP	- Palypa	pylane:	C e Sill	one:	T o Tell	on:	0 = Other (	Smecifus
BAMPLIN	EQUIPMENT		PP - After P	eristatic	Pump	B = Bailer,	*	Stadder !	initio.	200 a	lia-frie	Submer	uble Pi	an c	
			UPP = Reve	75611CW	rensianic P	ump,	M = Straw	Method (	Tubing	Gravity Dra	in),	0 = Om	er (Spi	acity	

STABILIZATION CRITERIA

pH:±0.2 units Temperature:±0.2 °C Specific Conductance: ±5% Dissolved Oxygen:±0.2 mg/L or ±10% Turbidity:≤10 NTU or ±10%

SITE NAME:	Clouds Che	vron	·		,		OCATION	Taylors	Street & Tv	ro Not	ch Roa	d, Col	umble, S	C
WELLNO	0.				SAME	UE (D):	Dw.	-4		***************************************	DATE	4	13/1	L/
									-	*******				
WELL		Total V	Vell Depth (fe	ett.		RGING	G DATA		STATIC	APATI	1111		1000 0114	88.00
DIAMETE		<b>A</b> ] .		- 11	D	DEPTH:	0.5 feet	tollo	Bet TOWA	TER (fe	et):	90	JRGE PUM R BAILER:	10°
WELLV	OLUMI PURG		- (			- STAT	1.60	TO WATER		CAPAC 6		s/fact	•	gallons
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (Dallons)	TEMP (°C)	٨	pH (54)	Α	CONE (ည5)	λ. Α	(w&r)	Δ	TURB IDITY (NTU)	^	COLOR	COOR
240		-	12.9	•	7.4	+	100	-	2.9	-	61	-	CIC	Sligh
1252	14. <u>5</u>	4.5	14.7	0.4	7.9	6.5	149	49			892	831	cldv	SIL
1300	13.2	8.0	24.9	6.7	7.4	115	145				596	mb	CYTY	N
131	3.0	13.0	15.3	0.7	81	147	133	12	<u> </u>	_	184	912	SI SIE	N
1200	2.5	15.5	25.0	6.3	7,9	6.7	98	13		+	160	84	SI clus	N
1337	4.0	19.5	25.0	Oct	7.5	0.9	97	12		<del> </del>	132	69	cic	8124
351	3.5	23.0	26,1	<b>7.</b> A	7.1	0.2	68	+1+-	<del> </del>	+	10	10	CC	N
1405		27.0	25.2	7.7	7,1	0.0	ad	10	<del> </del>	+	8.4		cic	- <del> </del>
						1	30.0		<del> </del>	1	1217	40	W.	N.
							-	1	1	1			,	
	,										12			
		4			<u> </u>			1		,				
WELL CA	PACITY (Ost	ers Per Foot):	0.76" = 0.03	g 4" m	0.04; 1.21	F = 0.06;	<b>2" = 0.16</b>	;	7. 4" = 0.65		1.02	<b>6</b> = 1.4	7: 12" -	5.88
,	·							+			· ,		·	
		1			SAI	MPLIN	DAT	A					1	1
	ST (PRINT)	1	-	Same	ER(8) SIG			1	SAMPUNG	DATE	-]:		LING TIME	<del>*************************************</del>
Trev PUMP OF		rek .		TUBINI		1			4/3/1	۲		14		
DEPTH	WELL (test):				NALCODE			1	FIELD-FILT	ribweu RHED	Type:	-	FILTER	aize:
DUPLICA	TE COLLECTE	D; Y	(y)											
BAM	Pui contad	er efectio	ATTON		eanpl	. PRESU	, , , ,	· Companyation · ·	ANALY ANALY AND/C		EQL	MPLING APMEN CODE	n i	TUMP PLOW RATE Simin)
D CODE	CONTAINER S	MATERIA LOODE	VOLUME	U	ervative ISEO	ADDED IN	FIELD	FINAL pH	-					
,	7	6	41ml		177	-		-	876	0		B		
						1,5		1	<b></b>		<del>                                     </del>		<del>-  </del>	,
			<del>كندوب مجيزة</del> ا			- 1	+	1			<del>                                     </del>		<del>-   -</del>	
								1			1			
			· ·					3		7		****		
REMARK	\$.		,							· · · · · · · · · · · · · · · · · · ·				
200000000000000000000000000000000000000	l cónco				·			1	·				-	
	Céodes: A		APP = After	Clear Gla		Polyethyle		* Polyprop		ilcone;	T = Tel		O = Other (	Specify)
	- GWITTER	· suppo	rpp = Aicel	renstant 1130 Flow	Peristanic F	<b>S</b> = Salier Tump;	M = Straw	Bladder Pu Method (To	mp;	• Electri rain);	c Submei			

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ± 10 NTU or ± 10%

						—			3 LOG					
NAME: C	Clouds Cher	<i>r</i> en		· ·		.   8	ITE OCATION: T	zylors	Street & Tw	o Not	ch Rose	i, Col	umbla, S	C
WELLNO					SAMP	LE ID:					DATE	4-	1-14	
					Di	IPOING	DATA							
WELL		Tetal	Well Depth (fe	et) -			CREEN INTE	RVAL	STATIC	DEPT	1 444.	10	IRGE PUM	a TVOS
DIAMETE	R (inches): LUMI FURGI	- 1			O Septe	DEPTH	L 🧲 feet to	ブロ 1	DE TOWAT	ER (fe	et) [*] [*] * *	2 0	RBAILER:	P
			= (	70		1-	C DEPINIC	fee!	B × O . A		Gallons V	Hoot	. 5	_ gallon
TIME	VOLUME PURGED (gallans)	CUMUL. VOLUME PURGED (Dallors)	TEMP (°C)	۸	pH (su)	۸ :	COND. (µS)	1	DO (mg/L)	^	TURB IDITY (NTU)	٨	COLOR	000
050		-	22.4	-	6.6		104	1-	1.5	1-	1000		cldy	V
00	5.0	5,0	12.6	5.2	7.0	0.4	1114	10			347	124	clus	Y
										上			,	
	**************************************	<u>"</u>	,				<del>,</del>	-						,
						-								
														-
			1					+		ļ,	-	. ,		-
	BY (PRINT)  Au 1'0  TUBING	War	lide	-1	ER(S) SIGN		DATA		SAMPLING	14			LING TIME:	
PTH IN	WELL (feet):	D: Y	N	TUBING	AL CODE:		,	,	FIELD-FILTE Filtration Eq.		Type:		FILTER	IZE.
SAMP	LE CONTAIN	ir epecipi	ATION	,	SAMPL	e presen	VATION	:	INTEND ANALYS AND/O METHO	iis K	EQU	APLIN IPMEN ODE	T P	MPLE VIND LOW (ATE (min)
CODE	CONTAINER	MATERIA L GODE	VOLUME	PRESE	RVATIVE SED	TOTAL I ADDED IN (mL)	FIELD   "	MAL ph		,				
	1 (6 10ml				V	-		1	8260	3		3		· · · ·
				5.2						<del></del>	1			
			,	,								·	_	
MARKS				<u> </u>	i		11		L		<u> </u>		L_	
ATERIAL	CODES AC	a Amber G	asa; <b>GG =</b> (	lear Glas	3: P2 =	Polyethyle	in: PP = I	opproprio	lene; 2 ≈ Sil	lenra.	T = Tef	on.	0 = Other (	Drage 14
			APP = After					~ 25~ cm	, or early = 1 - 124	ASSESS FOR	7 T 7 WH	***	— — with (i	SHOPH

STABILIZATION CRITERIA
pH; ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ±5% Dissolved Oxygen: ±0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

AME: C	louds Chevi	ron				S	ITE DCATION:	Taylors S	Street & Two	Note	h Road	i, Col	umbia, S	C
VELLNO					SAMP	UE (D)					DATE	4-	1-14	1
						2011								
VELL	<del></del>	Total	Well Depth (fet	M)	PU		DATA		STATIC	DEPTH	برحود ل	. I Pi	JRGE PUM	P D/PF
AMETE	R (Inches).					DEPTH:	65 feet t	9 <b>70</b> fe	TAW OT 19:	ER (fee	1);	8 0	R BAILER:	9
ELL VO	Lumb Purge		OLUME - (TO	70	T DEP IN		86	feet		16	gallone	foot	3.86	galions
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallers)	TEMP (°C)	۸	9H (8U)	Α	(H2)	۸	(war) DO	٨	TURD IDITY (NTU)	٨	COLÓR	ODOŔ
2:03			22.5	-	7.0	1	125	-	3.7	-	1000	-	cla	N
7:07	6.0	6.0	24.4	3.9	74	0.4	123	2		ļ	263	77	cldo.	<del>     </del>
1:10	4.5	10.5	23.0	1.4	8.7	0.8	124		<u> </u>	ļ	118	145,	SI clay	4-4
7.13	4.0	14,5	23.3	0.3	81	OLL	124	0		-	10	M	CIF	1-6
						+				<b>-</b>	<del> </del> -		<b></b> -	<del> </del>
ı				_			1							
	Ì													
	1									<u> </u>				
					<del></del>					-	<u> </u>			1
			<del>-</del>		-					-	<i>.</i>	-		ļ
			<del></del>	-	-			4	ļ	-		-		-
AMPLE	SEY (PRINT)			SAMPU		MPLIN	3 DAT/		SAMPLING		1	BAMI	LINGTIME	:
	9-14-10	4	er liele	TUBING	<u> </u>	-	<u>/</u>	<u>.</u>	Y-	- 75-75	14		A   X	
EPTH IN	TUBING WELL (feet): TE COLLECTE	D: Y	(N)	MATER	ALCODE	1	بعدر حدب بعاب	<del></del>	Filtration Eq		Type:		FILIER	OKE
DAM	PLE CONTAIN	er opeopi			BAMP	LS PRESE		·	MTENG ANALY AND/O WIETH	A A	EQ	MPLIX UIPME CODE	NT I	AMPLE PUMP FLOW RATE mimin)
AMPLE CODE	CONTAINER S	MATERIA L CODE	AOTAME	PRESE	RVATIVE SED	ADDED II	MELD	FINAL pH						2
	V	CG	40ml		144	-	-	-	8260	6	-	13		
					<del></del>					<del>4 p - 10 - 10 - 10 - 10 - 10 - 10 - 10 - </del>				
		4												
						ļ		1 .	-		-			
		,		-		£	1		1	-	1		ı	
EMARK	<b>8</b> .		· · · · · · · · · · · · · · · · · · ·	L			,				<del></del>			
	S:	O a Amhar (	ines: DA =	Clear Gia	ka: <b>pr</b>	- Polyethy	ene: Pi	= Polyprop	Wane: 1 a s	ilirone:	Tale	non:	O = Other	(Specif

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

SITE C	Clouds Chev	/ron					OCATION	Taylors	Street & Tw	es Not	ch Rose	l Col	umble S	
WELLING	•	attended at		4.	SAMP						DATE	-		<u> </u>
		AND AND AND ADDRESS OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PART				1	DW-				<u> </u>	15	217	
					PU	RGING	DAT	A						
WELL DIAMETE	R (inches):	) Total	Well Depth (fe	" 5c	5		CREEN () 50 tee		STATIC	DEPTI	1,24.0	0 0	JRGE PUM R BAILER	PTYPE
	LUME PURO					- STAT		TOWATER	s) x merr	CAPAC	ITY			<u> </u>
	<u></u>	CUMUL.	= (	<u> 5</u> ç	) lex	:1-	<del>, , , .</del>	; fei	t) X	<del></del>	Sellous	/foet	*	gallons
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (gallons)	TEMP (°C)	۸	(an) bH	۸	CON( (µS)	· • •	(mg/L)	^	TURB IDITY (NTU)	٨	COLOR	CDOR
1420			25.1	-	6.2	-	201	-	3.5		H000	-	clus	N
143	5.0	5.0	24.8	0.3	7.2	1.0	191	60			173	847	SILL	N
1940	3.5	8.5	124.6	0.2	75	0.3	139		<u> </u>		48	20	C/2	N
1506	4.0	12.5	124.6	00	7.5	0.0	120		<del> </del>	-	133	26	c/c	N
515	4.5	21.0	24.6	0.0	7.5	O.A	120	- /	<del> </del>	<del> </del>	8.9	41.	CIC	1
	7.1.7		15411	19/11	1/15	0.0	120		<del> </del>	+-	7.4	W	CV	N
								1		1	1		-	
		1					2)			ľ	77 -			
		<b></b>			A-2-8		, t		1	╀			-	
			<del> </del>			- ,			<del>}</del>	<del> </del>				
	***	-	<del> </del>	-						+	1	-		-
MEN L CA	PACITY (Gallo	ne Bar Cont	A 984 - A R		na. 484	5° ≈ 0.06.	8" = 0.1		·			لونسخا د مد مد		
	Lange 1 (Cont	- Per rudi	- 41EA - 0.01			- U.UO,	8" = 4.1	5; <b>3"</b> = 0.:	37; 4" = 0.60		1,02;	F* # 1/	17, 12"=	5.88
	1	1			CAL	AIDI IA	o más		i i		*		-	
SAMPLEO	BY (PRINT)			SAMPL		MPLING WATURE(S		<u> </u>	SAMPLING	DATE:		SAMP	LING TIME:	<del></del>
Tre		rek	,	M		10			14/3/1	4	·	15		
	TUBING WELL (feet): TE COLLECTE	0: Y	A)	TUBING	ALCODE:			1	Filtration Eq				FLYER	6ZE
BAM	LE CONTAIN	en èpeciri	PATION	,	24101	.e prese	EVATION.	- 1	NTENE	<b>418</b>		MPLIN	0   7	WAPLE UMP LOW
-			,					1	AND/C		1	CODE	". [ i	LATE Limin
SAMPLE D CODE	CONTAINER S	MATERIA L CODE	AOTAME	UE	RVATNE IED	TOTAL ADDED IN	FIELD	FINAL ph					_	
	1	CG	40ml	H	Cle			-	8261	13		3_		
				<u>}</u>							-			<del></del>
			' '	1			<del> -</del>		<del> </del>		+	,.	——	
		li li	·								1			
REMARKS	3;	11			,					*****			, , , , , , , , , , , , , , , , , , ,	
MATERIAL	CODES A	G = Amber 0	Jasa - Alba -	Clear Glas	ð: <b>22</b> -	Polyethyle	into the	n Data	dana 5 - C	lieron	T = Tel	,		On the state of
	G EQUIPMENT		APP = After			Baller		= Polypror		licone, Elactr	T = 181 Ic Submei		O = Other (	obecny)

SITE C	louds Chev	ron					SITE COCATION: 1	aylors :	Street & Two	Note	h Rose	i. Colı	ımbia. S	3
WELLNO					SAME						DATE			
<del></del>		. 16											<del></del>	
			······································		рĮ		3 DATA	i		÷			· · · · · · · · · · · · · · · · · · ·	
WELL DIAMETER	R (inches):	Total	Well Depth (fe	** 55	5	WELL S	SCREEN INTE	号:	STATIC I				ROE PUM	PTYPE
	LUME PURGE	T WELL V		DIALWE	L DEPTH	- 81A1	IC DEPTH TO	WATER	) X WELL C		TY			
<u> </u>		CUMUL.	<b>=</b> (	<u> 59</u>	) ⁽⁶	31- -	<del></del>	teel	) X		gallons	/loct		gallons
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (gallors)	TEMP (°C)	۸	pH (su)	۸	CÖND. (µS)	۸	00 (mg/L)	٨	TURB IDITY (NTU)	۸	COLOR	ODGR
			<u> </u>										1	
		· · · · · · · · · · · · · · · · · · ·	<del>-</del>		-		<b> </b>	-						1
		``	<del> </del>			+	<del> </del>	-						
		l _a	<del> </del>								-			
					1								<del></del>	
				,								,		
		į.					-							,
				<b> </b>	<del> </del>	ļ		-						
					·			-					, , , , , , , , , , , , , , , , , , ,	1,
						<del> </del>	·	+		,				
	1	no Bon Brotte	نے سے ال			<u></u>								
WELL UM	PACITY (Galloi	as Per Foot).	01/0 - 01/03	t 1"=1	JU4; 121	57 <b>2</b> 0.06;	2" = 0.16;	5 = 0.3	7; 4" × 0.65;	<b>\$</b> 0 ≈	1.02;	<b>" -</b> 1,4	7. 12**	5.68
		Ì			<b>SAI</b>	-	~ ~ ~ ~	Ì				,	,	20-7
SAMPLED	BY (PRINT)			SAMPL	ER(S) SIG		G DATA		SAMPLING D	MTE	<del></del>	SAMBI	ING TIME:	
		- A-1			-	•		·{				په پايتونيک	***************************************	
DEPTH IN	TUBING WELL (feat):		,	TUBING	ALCODE		•		Fibration Equ				PLTER	SIZE
DUPLICAT	E COLLECTE	); Y	N			y (1)						<del>در آب در</del>		
SAMP	le containe	r spicifk	ATION		\$AMP!	J Prese	·	100	NYENDE ANALYS AND/OF METHO	19) }	BOU	PLING PMIN ODE		LOW LOW LATE
D CODE	CONTAINER B	MATERIA L CODE	VOLUME		RVATIVE SED	ADDED (N	FIELD	final phi				,		-
			<u>,                                    </u>						,					
				<del></del>							<del> </del>	·		<del></del>
	<del></del>	1					_	ì					<del> </del>	
		<u> </u>											_	
REMARKS.		Not	Sam	pled	Ab	andi	and.							
MATERIAL	CODES AG	- Amber G		ciear Gia:		Polyethyle		Polypropy	iene, B. Sil	cone;	T = Tef	an; i	0 = Other (	Specify)
SANDLING	EQUIPMENT	CODES:	APP a After	eristable	Pum it:	• Baile		adder Pu		Electri	: Submer			

SITE	Clouds Che	vren					SITE	N Tay	iore 8	Street & Two	Note:	h Roa	i. Col	umble S	C.
WELLN	0	Translar !			SAME		Dw.					DATI			<u> </u>
														-/	
WELL		Lea			PL	RGING									
DIAMET	ER (inches):	<u>ا</u> ا	al Well Depth (16	93		DEPTH	<b>ፈ</b> ብ ተ	INTERV	5 4	STATIC!	DEPTH ER Mes	25 6	OP	urge pum Realer:	P 25°
MATEA	olume purg	H: TWELL	VOLUME : (1	OTAL WELL	LDEPTH	- STAT	IC DEPT	HTOW	ATER)	X METT C	APACI	TY			*
	T	CUMUL		<del>ده ۱</del>		اخ ا	5.00	2	1667	× 0.1	<u>b</u>	gallers	700t	•	gallons
TIME	VOLUME PURGED (gallens)	VOLUM PURGE (gellors	D (°C)	^	pH (su)	۸	CON (μ5		۸	(MBVT) BO	۸	TURB IDITY (NTU)	٨	COLOR	COOR
1017			23.4	- 1	.4		7	3	-	3.8		42	=	() -	Slight
1023	5.0	5.0	21.8	144	17	0.2	4-		6			196	54	a day	ans
1029	5.0	His 6	121.6	10.2	<u> </u>	0,3	34		1			53	H3	C/4	מממו
1036	15.0	15.0		6.0	0	0.1	31		6			18	35	clc	OINC
1048	5.0	20.0	2 21.6	00 6	<u></u>	O.L.	3:	2	3			10	8	de	560
	<del> </del>														
		-			·										
	7		a											-	
		1		1-1						1		, , , , ,			
								1	-		-				
											*			3	
													- 1		
-					-1							-	,		
WELL C	PACITY (Gail	ons Per Foo	p: <b>0.78" -</b> 0.02	1"=0.0	4; 128	= 0.06;	2* = 0.1	6, 3	<b>-</b> 0.37	4" = 0.65;	<b>5</b> 4 e	1.02;	- 14	7. 127=1	5.08
					SAN	APLINC	B DAT	ra .							
-	BY (PRINT)			SWIP III	KE) SIGN	ATURE(S)		-	7	SAMPLING D	ATE:			ING TIME:	
PUMPO	YUBING STAR	么		TUEING						시커니			10.	A-11-	
<b>GEPTH IN</b>	WELL (feet)	1		MATERIA	LCODE:			1		FIELDIFILTER Filtration Equi	mert ,	Y N'		FILTER	ZE
DUPLICA	PE COLLECTE	U. Y						Ť		_					
SAM	ple contabl	er specie	ICATION	-	ranpl	e presex	IVATION			ANALYSI ANALYSI AND/OR METHOD	B	EQU	PLING PMEN ODB	T	MPLE UMP LOW ATE
D CODE	CONTAINER	MATERIA LGODE	AOTAME	PRESERV USEI	ATME	TOTAL ( ADDED IN (Jm)	FIELD [	FINAL			-		-	- 19	/min)
	1,	LG	40 ml	H	L		1		7	8260	B		13		
	4							<del></del>		7.77.11	<b>-</b>	700			
		1						1					····		
,	-														
												,			
REMARKS						,				,					
MITTER	ACRES. *	D . Ambou	Nines 65 -		22.			<u> </u>				<u> </u>		<u></u>	
materia Bampling	CODES: A	9 = Amber ( CODES:	APP = After F	lear Glass, eristaltic Pu	ma	Polyethyler <b>B</b> = Baller,		P - Polyc - Bladde	r Pum	D. BBP = F	tector	T = Teff	ble Pu	o o Omer (S	ipecity)
	<del></del>	+	RPPP = Reve	15 T T 10# PE	nstante Pi	nuit:	M = Shar	# Methic	(Tub	ng Gravity Drai	n),	Q=On	er (Spe	city	

STABILIZATION CRITERIA

pH; ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen; ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

WELL NO SAC   PURGED PURGED (retry)   WELL SCREEN NTSN/AL STATIC DEPTH OWNERS (rective)   PURGED PUND OR BALER:  TIME VOLUME VOLUME (TOTAL WELL DEPTH - STATIC DEPTH TO WATER)   WELL CAPACITY (RET)   PURGED PURGED (°C)   (W)   COND   C (MPL)   C (MPL)   C (MPL)    TIME VOLUME VOLUME TEMP   PURGED (°C)   (W)   C (COND   C (MPL)   C (MPL)   C (MPL)   C (MPL)    TIME VOLUME VOLUME TEMP   PURGED (°C)   (W)   C (COND   C (MPL)   C (MPL)   C (MPL)   C (MPL)    TIME VOLUME VOLUME TEMP   PURGED (°C)   (W)   C (COND   C (MPL)   C (MPL)   C (MPL)   C (MPL)    TIME VOLUME VOLUME TEMP   PURGED (°C)   (W)   C (COND   C (MPL)   C (MPL)   C (MPL)    TIME VOLUME VOLUME TEMP   PURGED (°C)   (W)   C (COND   C (MPL)   C (MPL)   C (MPL)    TIME VOLUME VOLUME (C (MPL)   C (MPL)   C (MPL)   C (MPL)    TOMAL CAPACITY (Galions Per POOL) 0.75° = 0.02; 1" = 0.04; 1.58° = 0.05; 2" = 0.16; 5" = 0.37; 4" = 0.56; 8" = 1.02; 6" = 1.47; 18" = 5  ***SAMPLED BY (PRINT)   SAMPLED BY (PRINT)   C (MPL)    ***SAMPLED BY (PRINT)   C (MPL)   C (MPL)   C (MPL)    ***SAMPLED BY (PRINT)   C (MPL)   C (MPL)    ***SAMPLED BY (PRINT)   C (MPL)   C (MPL)   C (MPL)    ***SAMPL	AME C	louds Chev	ron				يلن	OCATION: T	aylors S	treat & Tw	o Note	in Road	_		3
PURGING DATA  WELL SCREEN INTERVAL  UNABETER (Inches)  TOTAL WELL SCREEN INTERVAL  DEPTH feet to TOWATER (Inches)  OR BALLER:  TOTAL WELL DEPTH (Inches)  TOWATER (Inches)  OR BALLER:  FIREL VOLUME PURGED  (VOLUME PURGED  (	VELL NO.	Sw-	1			SAMPL	JE (D:	Sw-1		··· W.L ··· · · · · · · · · · · · · · · ·		DATE	4/	2114	
WELL CARREN BYTERVE.  TO WATER PURCHES  WELL CARREN BYTERVE.  TO WATER PURCHES  WELL CARREN BYTERVE.  TO WATER PURCHES  OR BALLER  TO WATER PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES  PURCHES						D1)	5011/								
MILL VOLUME PURDE: 1 WILL VOLUME   1707AL WELL DEPTH - STATIC DEPTH TOWARD   X WELL CAPACITY   2000   1 COLOR   1681   X   2000   1017   A   COLOR   1681   X   2000   A   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)   A   COLOR   (1017)			Total W	rell Depth (fer	Pt)	PU	WELLS	CREEN INTE							P TYPE
TIME VOLUME CUMUL TRMO A PH A COND A COND A COND PURCED (%C) A (%U) A COND A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A COLOR (MSA) A (MTV) A (MTV) A COLOR (MSA) A (MTV) A (MTV) A (MTV) A (MTV) A (MTV) A (MTV) A (MTV) A (MTV) A (MTV) A (MTV) A (MTV) A (MT			: TWELL VE		SYALWED		- STAT		WATER)	X WELL	,	TY			gallons
TIME PURGED PURGED (CC) A (SU) A COND (MS) A (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR (MTU) A COLOR				<del></del>			<u> </u>	r d	7		T			<del></del>	<u> </u>
SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SA	TIME	PURGED	VOLUME PURGED	Temp (°C)	^	рН (SU)	1	(µS)	۸	(mg/L)	^	(NTU)			ODOR
SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATE  SAMPLING DATE  SAMPLING DATE  SAMPLING DATE  SAMPLING TIME:  SAMPLING DATE  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING DATE:  SAMPLING TIME:  SAMPLIN	SK	-		19.6		6.7	-	396	-	3.4		276	=	SICILY	moc
SAMPLING DATA  SAMPLING DATA  AMPLED BY (PRINT)  SAMPLING DATA  AMPLED BY (PRINT)  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TI									1 1	<del></del>	1				
SAMPLING DATA  SAMPLING DATA  SAMPLED BY (PRINT)  COLUMN SIGNATURE(S):  WATERIAL CODE:  SAMPLE PRESERVATION  SAMPLING DATE:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING DATE:  SAMPLING TIME:  S				<u> </u>	<del>                                     </del>			ļ	1-1		<del> </del>				<u> </u>
SAMPLING DATA  SAMPLING DATA  SAMPLED BY (PRINT)  COLUMN SIGNATURE(S):  WATERIAL CODE:  SAMPLE PRESERVATION  SAMPLING DATE:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING DATE:  SAMPLING TIME:  S					<u> </u>				4-4		1				<u> </u>
SAMPLING DATA  SAMPLING DATA  MPLED BY (PRINT)  SAMPLING DATA  MPLED BY (PRINT)  SAMPLING DATA  MPLED BY (PRINT)  SAMPLING DATA  MPLED BY (PRINT)  SAMPLING TIME:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING DATE:  SAMPLING TIME:  SAMPLING DATE:  SAMPLING TIME:  SAMPLING DATE:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING DATE:  SAMPLING TIME:  SAMPLING DATE:  SAMPLING TIME:  SAMPLING DATE:  SAMPLING DA			<u></u>	<u> </u>	<b>├</b> ──┼		<b></b> _		1-1		4	ļ			<b> </b>
SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING TIME:  158  TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOT				<u> </u>	<u> </u>		<u> </u>	, ,	1	, , , , , , , , , , , , , , , , , , ,	<del>                                     </del>	ļ		<u> </u>	<del> </del>
ELL CAPACHTY (GRIGOTS POT FOOT): 8.78" = 8.02; 1" = 0.04; 1,25" = 8.06; 2" = 0.16; 5" = 0.37; 4" = 0.65; 6" = 1.02; 6" = 1.47; 12" = 5  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATE: SAMPLING TIME:  1   5   5    SAMPLING DATE: SAMPLING TIME:  1   5   5    SAMPLING DATE: SAMPLING DATE: SAMPLING TIME:  1   5   5    SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING				<u> </u>	<b></b> _	_			++		<del> </del>		1		<del> </del>
SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING TIME:  158  TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOT			-	<u> </u>	<del>                                     </del>		ļ		4-4		-			<del></del>	<del> </del>
BLL CAPACREY (Genors Per Foot): 0.78" = 0.02; 1" = 0.04; 1,28" = 0.06; 2" = 0.16; 5" = 0.07; 4" = 0.65; 5" = 1.02; 5" = 1.47; 12" = 5  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATE: SAMPLING TIME: 1/3/1/1   1/5/8  IMPORTORING PER TORING PRITERED: Y N PILTER'S PRITERED: Y N PILTER'S PRITERED: Y N PILTER'S PRITERED: Y N PILTER'S PRITERED: AND PRITERED: PRESERVATION  ANALYSIS AND PRITERED: PRESERVATION  ANALYSIS AND PRITERED: PRESERVATION  ANALYSIS AND PRITERED: PRESERVATION  ANALYSIS AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  ANALYSIS AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  ANALYSIS AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED: PRESERVATION  AND PRITERED:					-		ļ.,	1	1		1	<u> </u>		<b> </b>	<del> </del>
SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING TIME:  158  TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOT		ļ	1	<u> </u>			<b>!</b>	,	اسا		4	ļ			<del> </del>
SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING TIME:  158  TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOT					1		<b></b>	<del> </del>	+ +		+	<b></b>		<del></del>	—
SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING DATA  SAMPLING TIME:  158  TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOT		·		-	<del> </del>			<b></b> +	+	·	<del> </del>	<b></b>		<b> </b> -	<del> </del>
SAMPLING DATA  IMPLED BY (FRINT)  SAMPLING DATA  SAMPLING DATE:  SAMPLING TIME:  JOBING  INFORT TUBING  PRICE PLANTING PRINT TYPE:  MATERIAL CODE:  SAMPLING DATE:  SAMPLING TIME:  JOBING  PRICE PRINT TYPE:  SAMPLING TIME:  JOBING  PRICE PRINT TYPE:  SAMPLING DATE:  SAMPLING TIME:  JOBING  PRICE PRINT TYPE:  SAMPLING TIME:  JOBING  PRICE PRINT TYPE:  SAMPLING TIME:  SAMPLING DATE:  SAMPLING TIME:  SAMPLING DATE:  SAMPLING TIME:  JOBING  PRICE PRINT TYPE:  SAMPLING TIME:  JOBING  PRICE PRICE PRINT TYPE:  SAMPLING TIME:  JOBING  PRICE PRICE PRINT TYPE:  SAMPLING TIME:  JOBING  SAMPLING TIME:  JOBING  SAMPLING TIME:  JOBING  SAMPLING TIME:  JOBING  SAMPLING DATE:  SAMPLING TIME:  JOBING  SAMPLING TIME:  JOBING  SAMPLING DATE:  SAMPLING TIME:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBING  SAMPLING DATE:  JOBIN			<u> </u>	<del> </del>	1				1		+	<b> </b>	1	<u> </u>	
OBING EPTH IN WELL (rest):  WATERIAL CODE:  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PILTER'S  PI			*	- ,	94,491,4	SAI Pis (SP	MPLIN	G DATA		SAMPLING 4/2/14	DATE:				
EAMPLE CONTAINER PECIFICATION  EAMPLE PRESERVATION  EAMPLE PRESERVATION  AMALYSIS AMPLING PARTICLE AMERICA CODE  CODE  CONTAINER LOOPE  VOLUME  PRESERVATIVE ADDED IN FIELD PH  (FIL)  INTERDED  AMALYSIS EQUIPMENT CODE  (FIL)  FINAL PH  CODE  CONTAINER LOOPE  CONTAINER LOOPE  VOLUME  PRESERVATIVE ADDED IN FIELD PH  CODE  CODE  CODE  CONTAINER LOOPE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  COD  COD	UMP OR EPTH IN	YELL (rest):				AL CODE:			ŝ	FELD-FILT	ERED Upmen	t Type;			SIZE:
EAMPLE CONTAINER PECIFICATION  EAMPLE PRESERVATION  AMALYSIS AMBROR AMBROR CODE  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL PH  FINAL	UPLION.		-	<del></del>	1		<del> </del>			WENT		T			ANTLE
SAMPLE CONTAINER LOCOR VOLUME PRESENTATIVE ADDED IN FIELD (mL) PH	BAM	ple contain	er specific	ATION		BAMPI	LS PRESI	RYATION	-	ANALY AND/	1818 DR	10	UIPME	NT	Pump Flow Rate mumin
	SAMPLE D CODE			AOTAME			ADDED	N FIELD			<u> روستانیان</u> بردسیاریانی	,			
									·				· ·		
															-
						·	<b></b>				-				
			<del></del>		<b></b>		<u> </u>		·		سمجين				
		<u> </u>	1		<u> </u>		ļ		1317 2						,
EMARKS	HARAELS		لـــــــــــــــــــــــــــــــــــــ	<del></del>	<u></u>		<u> </u>			<u> </u>	•	ـــــاــــــــــــــــــــــــــــــــ			,
	EBANA	<b>3</b> .	i i					41							
MTERIAL GODES - AG = Amber Glass; OG = Clear Glass; PE = Polyethylene, PP = Polypropylene; B = Sillcone; T = Telton; O = Cither (S	ATERIA	L'OORES A	A - Amber 6	tase: AR n	Cinur Glas	9' BR	e Polyethy	One Dis	Polygrans	Action But	Sillenne	Tolk	ilion:	O = Other	(Sasci
AMPLING EQUIPMENT CODES: APP = After Peristalitic Pump; 8 = Saller, 8P = Sladder Pump; 89P = Electric Submersible Pump;  APPP = Reverse Flow Pentstalitic Pump; 8M = Straw Mathod (Tutting Gravity Drain); 0 = Other (Specify)			T CODES:	APP = After	Peristallic	Pump;	8 = 8ail	er, PP-pt	liadder Pu	mp; ESP				Pump;	

STABILIZATION CRITERIA

pH:±0.2 units Temperature:±0.2 °C Specific Conductance: ±5% Dissolved Oxygen:±0.2 mg/L or±10% Turbidity:≤10 NTU or±10%

#### APPENDIX D

Laboratory Reports
And
Chain-of-Custody Documentation





#### ANALYTICAL REPORT

#### **CLIENT**

Crawford Environmental Services 15 Church Ave, SW Roanoke VA 24011

**ATTENTION**Charles Crawford

PROJECT ID Clouds Chevron et. al.

#### LABORATORY REPORT NUMBER 1404588

**DATE** April 16, 2014

Primary Data Review By

Secondary Data Review By

CAKanhav

Ashley Amick

Chantelle Kanhai
Project Manager, AES

Project Manager, Access Analytical aamick@axs-inc.com

#### PLEASE NOTE:

- Unless otherwise noted, all analysis on this report performed at Analytical Environmental Services Inc. (AES Inc), 3080 Presidential Drive, Atlanta, GA 30340.
- AES is SCDHEC certified laboratory #98016, NCDENR certified lab #562, GA certified lab #FL-E87582, NELAP certified laboratory #E87582
- Local support services for this project are provided by Access Analytical, Inc. Access Analytical is a
  representative of AES serving client in the SC/NC/GA areas. All questions regarding this report should be directed
  to your local Access Analytical representative at 803.781.4243 or toll fee at 883.315.4243

LAB USE ONL	Y	Access	Analytic	al -	Chai	in of (	Custo	ody Reco	rd Projec	it Work Or	der#	1404688
Sales Order #	<u></u>	PO #				Access C	luote #		Labora	atory ID:	-1000000000000000000000000000000000000	da er jeron.
Company Name: Cran-ford	Env		Preservative: (*see codes)	1						٩	Access	
Report To: Charles Cro	^ \ \		Container Type: (*see codes)	G							Analytic	CAL, INC.
RoanoKe	tre SW Zip: 21	1011	ALYSIS: 1	4.W+V					7478 Carlis Irmo, SC 29	063 www.a	xs-inc.com	303) 781-4243 Fax: 781-4303
	fadenvirona The vron ed	sestal.co	REQUESTED LAB ANALYSIS:	5 1876X +	TraA				*Matrix Codes (p. GW = ground wate SL = studge, A = a (specify in common	lace correspondinger, WW = waste water, IW = industrial ants soction)	g code in matrix co. vater, DW = drinking I waste, WO = wast	above analysis field):  = NasSo, ZNOAC, 8 = HbP04  fumn):    water, S = soil,   e oll, OT = other  wastewaters), SDWA =  solid and Hazardous
Sample ID/Description	Date Time Collected: Collected:	Type: Matrix: Programmer (see codes) Are codes	m TOTAL	30/18	c				*Container Type:	g = glass, NOTES /	P = Plastic  COMMEN  page below to note star	TS
MW-1 MW-2	MUH 1247	GGW	O September 1	2	- Sam	of the	+ Dn		c ₂			
Mw-3	1214 1012	G Gw	J. Salah						CJ.			
MW-4	1/2/14/1809	GGW	2						CI			
Mw-5	<del>-</del>		o consider	N	p+ !	Samp	ed	-01/-				_>
MW-6.	13/14 0840	G GW	7	2					CI			
MW-7	1/3/14 1131	G Gw	J. Sections	2					CI			
MW-8	4/3/14/1209	G GW	7 September 2	2					CI			
MW-9	4/214 15,00	GGW	2   開發	2					CI			
Mw-10	4/1/4/13/7	GGW	2 5000	2					CI			***.
Turnaround Time:	Project Location:	Reling	uished By:		Fig.	eceived By:	4	Date (mm-dd-yy)	Time (24HR)	Samples Rec' on Ice		e Temp. Upon ceipt (°C):
Standard RUSH*	X_sc	1111			4	War	1	4/3/14	1635	Y	N(°C	(N/A)
*Date Required:(For rush work, results emailed/faxed by end of busi-	NCOther	44	nare'		-te	dex W		4-3-74	1700		N 3,5 (°C	
ness day on date required)	(specify)									Y	N (96	

Pg of 8

See Reverse for Terms and Conditions

LAB USE ONL	.Y	Access	Analytic	al - C	hain c	of Cust	ody Reco	rd Projec	ot Work Ord	der#	(५०५५ ४८
Sales Order #		PO #			_ Acce	ess Quote	¥	Labor	atory ID:		
Company Name:	and Env		Preservative: (*see codes)	1					9	Access	***************************************
Charles C	0 1		Container Type: (*see codes)	G					<b>5</b>	Analytica	IL, INC.
Knanoka	trate: Von Zip: S	14011	T.XSIS: 1	+N+				7478 Carlis Irmo, SC 2	9063	Phone: (803 Fax s-inc.com	781-4243 781-4303
Phone: 540,343,625 Email: CCrawford@Craw Project ID: Clouds Sampled By: Trever	6 540, 34	3,6259	S REQUESTED LAB ANALYSIS: +	3603 BT6X +M				*Matrix Codes (p GW = ground wa SL = sludge, A = (specify in comm	place corresponding ter, WW = waste we air, IW = industrial ents section) Codes: CWA = Cle- iter Act (for drinking ground waters and	onding # in block abo SO. 4 = NaCH, 5 = I HI-OH, 7 = NaOH/Sn: 1 Linch, 7 = NaOH/ZnC code in matrix colum ter, DW = drinking we waste, WO = waste ol an Water Act (for was waters), SHW = Solic waste samples)	n): hter, S = soil, I, OT = other
Sample ID/Description	Date Time Collected: Collected	Type: Matrix: Prop (grab or (see codes) Ai composite) (see c	ram TOTAL	978					NOTES / C	OMMENT: ce below to note start/fin.	
MW-11.	11414 1520	G Gw	continues of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the p	2				02			
WW-12	414/14/1549	GGW	Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collec	2				G2			
MW-13	4/1/14/1527	G GW	2 1	2				C (			
MW-15	<		onfinion of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contr	Not S	ampled	- Free	Product				<del>&gt;</del>
Mw-16	412/14/1447	G GW	S constitue	2				C2			
Mw-17	1/1/14/14/50	G GW	2 44	2				C2			
MW-18	4/21/4/1349	G GW	2 3	2				102			
Mw-19	4/3/14 1435	G GW	J. Significant	2				CI			
MW-20	4/3/14 1315	GGW	J. 5 19 19 19 19 19 19 19 19 19 19 19 19 19	2				Ci			
MW-22	4/3/14/1244	G GW	To so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so of so	2				CI			
Turnaround Time:	Project Location:	Relin	quished By:		Receive	d By:	Date (mm-dd-yy)	Time (24HR)	Samples Rec'd on Ice		emp. Upon pt (°C):
Standard RUSH*	×sc /	1/m/ /		15	AM	ark	4/3/14	1635	YN	(°C)	(N/A
*Date Required: (For rush work, results		Hh	rait		Ma	exp_	4-3-14	NO	YN	(°C)	(N/A
emailed/faxed by end of busi- ness day on date required)	Other				Ŋ		4/4/14	11:50	YN	(₀C)	(N/A)
	(specify)				ALC: NO.				YN	1	(81/4

Pg 2 of 8

See Reverse for Terms and Conditions

LAB USE ON	NLY	Access	Analytical	- Chain of	Custody Reco	rd Project W	ork Order	*#	1404588
Sales Order #		PO #		Access	Quote #	Laborator	y ID:		14
Company Name:	Rad En		Preservative: (*see codes)			9	А	CCESS	
Report To:	Crawford		Container Type: (*sec codes)				Α	NALYTICAI	L, INC.
Address: 15 Church	Ave SW					7478 Carlisle Str	-0	Phone: (803)	791 4242
	7.	,4011	XSIS:			Irmo, SC 29063	www.axs-in	Fax:	781-4303
Phone:	56 Fax: 540	. 343.6	REQUESTED LAB ANALYSIS: 1			*Preservative Codes (p. 0 = None, 1 = HCL, 2 = 1 6 = Method 5035 set w/	'ace correspondio ¬NOs, 3 = HsSOs NaHSOs & CHsO	ing # in block above , 4 = NaOH, 5 = Na IH, 7 = NaOH/ZnO/	e analysis field): asS:O:, AC, 8 = H:PO:
Email: CCrawforde Craw	Sondenviron	mental.	Com gray	35		*Matrix Codes (place co GW = ground water, WW SL = sludge, A = air, IW	presponding cod = waste water, i = industrial waste		
Project ID:	vron et al		TESTE (2)	P F		*Program Area Codes: Safe Drinking Water Act	ction) CWA = Clean W	Vater Act (for waste	ewaters), SDWA =
Sampled By:	Slack		RATEON TATOT manage Santana manage Canada Manage Santana Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage Manage M			Wastes (for soils, ground	waters and was G = Glass, P = F	ste samples)	ano nazaroos
Sample ID/Description	Date Time Collected: Collected:	Type: Matrix: Pro gmb or (see codes) A composite) (see	ogram TOTAL S			NO' (if sample is a composite		MMENTS	
Mw-13	4/3/14 1435	G GW	J. Salar Salar J			CI			
MW-25	4/1/140912	G GW	2:11:5			a			
MW-26	4/3/14 1155	G Gw	2 調報 2			CI			
Mw-27	4/1/14/0908	G GW	ス 引起 2			CI			
WM-78	4/1/1+0403	GGW	2 1 2			ci			
MW-29	4/1/140943	GGW	2 問題 2			Ci			
Mw-30	4/1/14/1007	G GW	2 115 2			Cl			
MW-31	41414 1356	G GW	2 開頭 2			C2			
MW-32	414/1015	G GW	2 開頭 2			C2_			
MV-33	4/1/14 1024	G GW	2 報到 2			CI	×		
Turnaround Time:	Project Location:	Reli	nquished By:	Received By	: Date (mm-dd-yy)		ples Rec'd on Ice	Sample Te Receip	mp. Upon t (°C):
Standard RUSH*	Xsc	11/2		ANa	1 4/3/14	1635 -	YN	(°C)	(N/A)
*Date Required:	NE	ar	xait-	Feder	P-3-14	17w -	_YN	(°C)	(N/A)
(For rush work, results emailed/faxed by end of bus	i- Other			$\mathcal{M}$	y/4/K	11850 -	_YN	3.5´_(°C)	(N/A)
ness day on date required)	(specify)		***	1			_YN	(00)	/h1/h)

See Reverse for Terms and Conditions

Original Copy - Returned w/Report Yellow Copy - Access File Copy Pink Copy - Client Copy

Pg 3 of 8

LAS USE ONLY	Á	Access	Analytica	al - Ch	ain of Cu	stody Recor	d Project Wor	k Order#	140 4588
Sales Order #		PO #			Access Quoi	te #	Laboratory	ID:	
Company Name: Crawfor Report To:	d Envy		Preservative: (*see codes)	<b>t</b>			9	ACCES	S TICAL, INC.
Address:	awford	110/	(*see codes)	G + †					,
City: Roanoke State	Va 2	4011	ALYSIS: 4	+N1+N +TAME				ww.axs-inc.com	e: (803) 781-4243 Fax: 781-4303
540.343.625 Email: Corgnifordecr	6 Fax: 540. 1	1	REQUESTED LAB ANALYSIS: 4	134 + 1 134 + 1			*Preservative Codes (place 0 = None, 1 = HCL, 2 = HN 6 = Method 5035 set w/ Nal *Matrix Codes (place corre GW = ground water, WW = SL = Sludge, A = air, IW = ii	sponding code in matri, waste water, DW = drin dustrial waste, WO = v	
Project ID: Clouds Ch Sampled By: Trever S	ievron et	al	REQUEST	1 1			(specify in comments section *Program Area Codes: Ct Safe Drinking Water Act (for Wastes (for soils, ground with *Container Type: Ge		for wastewaters), SDWA = / = Solid and Hazardous is)
Sample ID/Description Dat Col	te Time [7]	Type: Matrix: Progra grab or (see codes) Are: emposite) (see cod	am TOTAL 2 commines (	82402			NOT	ES / COMMI	
MW-34 4/	1/14/1030	G GW	Section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the sectio	2			c i		
MW-36 4/1	114 1519	G GW	J 2007	2			4		
MW-37 4/1	11141125	G GW	T seminar	2			CI		
MW-38 41	114 1135	G GW	Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colore	2			<u>C</u> )		
MW-40 4/	414 1218	GGW	Containers con the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of t	2			C2		
MW-41 H	1/14 1227	GGW	C company	2			CL		
MW-42 4/	1/14/1156	GGW	→ 200 E	2			CI		
MW-43 H	2/14/1428	() (W)	ユ   『	4	Received By:	Date	C1	s Rec'd Sa	mple Temp. Upon
	Project Location:	Trelling	uioneu uy.	$+$ $\mathcal{M}$	1-10-4	(mm-dd-yy)	(24HR) on	lce N	Receipt (°C):
Standard RUSH*	X_sc	MAN A	9/M	I CA	Mul	4/3/14	1600	N	_(°C)(N/A)
*Date Required: (For rush work, results emailed/faxed by end of busi-	NE Other		ruric .	Jil	1/1	4-3-14	1700 -Y		_(°C)(N/A)
ness day on date required)	specify)			-		117/17	Y		(10)A)

Pg 4 of 8

See Reverse for Terms and Conditions

LAS USE ON	LY	Access	Analytic	al -	Chain of Cu	istody Recoi	'd Proje	ct Work Ord	er#	1404588
Sales Order #	<u> </u>	PO #			Access Quo	ote #	Labor	atory ID: _		10
Company Name:	Ford Env.		Preservative: (*see codes)	1				9	Access	
Report To: Charles	Crawford		Container Type (*sec codes)	G				<b>5</b>	Analytica	L, INC.
Address: 15 Church	Avenue, Si	~		. +			7470 6-1		Bl (200	
Roano Ke	otate: Vq Zip: S	14011	YSIS	##			7478 Carli Irmo, SC 2	sie Street 9063 www.axs		: 781-4243 :: 781-4303
Phone: 540,343,6	256 Fax: 540	343,62	59 PNA	+W+N+ TAME			*Preservative Co 0 = None, 1 = HO	odes (place correspon CL, 2 = HNO ₃ , 3 = H ₂ S set w/ NaHSO ₄ & CH	nding # In block abo	ve analysis field); Na ₂ S ₂ O ₃ ,
Email: ccrawfordo	ecrawfordeni	ronnenta	الله المونيا					place corresponding c ter, WW = waste wate air, IW = industrial wa		
Project ID: Chouds C	herron et	al	ESTEL	BACK AAA	TBA		(specify in comm	ents section)		
Sampled By: Trever	Slack	1	S C C C C C C C C C C C C C C C C C C C	90			Safe Drinking Wa Wastes (for soils, *Container Type	Codes: CWA = Clear ater Act (for drinking waters and waters and waters and waters and waters and waters and waters and waters and waters and waters and waters and waters and waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters are clear waters and waters are clear waters and waters are clear waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters are clear waters and waters are clear waters are clear waters are clear waters and waters are clear waters are clear waters and waters are clear waters are clear waters and waters are clear waters are clear waters and waters are clear waters are clear waters are clear waters and waters are clear waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters and waters are clear waters are clear water	raste samples)	and Hazardous
Sample ID/Description		Type: Matrix: Prog	ram TOTAL>	3260				NOTES / C	OMMENT:	
MW-44	4/1/14 1420	G GW	J Company				CI			
MW-45	4/1/14/1422	G GW	2				C1			
MW-46	4/1/14 1430	G GW	2 500	2			CI			
MW-48	4/2/14/1433	G GW	J. September 1	12			62	•		
MW-49	4		76 M E	Col	il not acces	S-Gold Lud	ad -			$\rightarrow$
MW-50			- 188	~ 1	ald not acces		sed -			>
MW-5	7/414 1525	G GW	2 1	12			CJ.			
MW-53	4/3/14 0851	G CW	2 1	~			C2			
MW-54	4/1/14 1545	G GW	2	2.5			CIT			
MW-55	413/14/1019	GGW	J John Hart	12			CJ			
Turnaround Time:	Project Location:	Relin	quished By:		Received By:	Date (mm-dd-yy)	Time (24HR)	Samples Rec'd on Ice	Sample To Recei	emp. Upon pt (°C):
Standard RUSH*	X_sc	(m)	1/1/11		4 Dul	- 4/3/14	1635	YN	(°C)	(N/A)
*Date Required:(For rush work, results	N@	an	art-		+ edly	4-3-14	1760	YN	(°C)	(N/A)
emailed/faxed by end of business day on date required)	1				M	4/4/4	1/25	YN	3,5 (°C)	(N/A)
inco day oir date required)	(specify)							YN	(°C)	/N/A)

See Reverse for Terms and Conditions

LAB USE ONL	Y	Access	Analytic	al - Ch	ain of Cust	tody Record	Project Work O	rder #	1404588
Sales Order #		PO #			Access Quote	#	_ Laboratory ID:		
Company Name:	d Enc		Preservative: (*see codes)	1			۶	Access	
Report To: Charles C	rawford		Container Type: (*see codes)	G				Analytical	L, INC.
Address: 5 Church City: Sr Roan oke	Ave, SW Tate: Va Zip: 2 i	1011	KSIS: 1	<b>₹</b> †,			7478 Carlisle Street Irmo, SC 29063	Phone: (803) Fax:	781-4243 781-4303
Phone: 540, 343, 6256 Email: CCranfordeco	Fax: 540,34 awardeni.ro	3,6259 omental:	S REQUESTED LAB ANALYSIS: 4	BTEX+M+N+ FAX+TAME+ TBA			Preservative Codes (place corre- 0 = None, 1 = HCL, 2 = HNO, 3 = 6 = Method 5035 set w/ NaHSO-& "Matrix Codes (place correspondi GW = ground water, WW = waste o S. sludge, A = alr, IW = industris (specify in comments section)	sponding # in block above H:SO<, 4 = NaOH, 5 = N: CH:OH, 7 = NaOH/ZnO/	
Sampled By: Traver	Slauk Date Time	α∖ Type:  Matrix: Progr	T REQUES.	20,00 8.T 178 178 178				nd waste samples) , P = Plastic	
	Collected: Collected:	grab or (see codes) ATC omposite) (see co	007				NOTES / (if sample is a composite place use :	COMMENTS puce below to note start/finish	
MW-56	413/14/0941	G GW	2 Parison	2			<u>Cl</u>		
MW-58	1585	-A	oun deli	100-			60		
MW-59	4/A/H 1555	G Gw	2 開盟	2			<u>C</u> J		
MW-60			District Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Co	NOT 1	oduled			CONTRACTOR SECURITY SECURITY CONTRACTOR SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY SECURITY	>
MW-62	4/1/14 1338	GGW	2	2			C I		
MW-63	4/2/14 1327	GGW	立調量	2			Cl		
MW-65			\$ 10 m	Not	ocated-				->
MW-67	4/1/14 1242	G GW	a : 1	2		149	C1		
Mw-70	41414 1301	G GW	2:15	2			C1		
MW-5ar	4/1/14/0930	GGW	2 0	2			CI		
Turnaround Time:	Project Location:	Relino	quished By:		Received By:	Date (mm-dd-yy)	Time Samples Rec (24HR) on Ice	'd Sample Te Receip	
Standard	X_sc /	Jam	16 MM	2 (	Mat	4/3/14	1635 -Y-	_N(°C)	(N/A)
RUSH* *Date Required:	Ng	an	ant-	4	holess	4-3-74	17E) - Y-	N(°C)	(N/A)
(For rush work, results emailed/faxed by end of busi- ness day on date required)				U		4/4/14	//:8Y_	N 3,5 (°C)	(N/A)
ness day on date required)	(specify)				/		Y	N (90)	/NI/A)

Pg 6 of 8

See Reverse for Terms and Conditions

LAB USE ONLY	Access	Analytical	- Chain of Custo	dy Record	Project Work Or	rder # <u>/</u> //C	04588
Sales Order #	PO #		Access Quote #		Laboratory ID:		885 700,000
Company Name:	<del></del>	Preservative: (*see codes)			9	Access	
Report To: Charles Crawford		Container Type: (*see codes)				Analytical	., INC.
Address Schrach Ave Sw		1 >			7478 Carlisle Street	Phone: (803) 1	701 4040
City: ROBNORC State: Vil Zip: 2  Phone: Fax:	4011	ALLYSIS: 4.	AMÉT		Irmo, SC 29063		781-4303
Phone: Fax: 540.34. 6256 540.34.		ANA		*P	Preservative Codes (place corres = None, 1 = HCL, 2 = HNOs, 3 = = Method 5035 set w/ NaHSO4 &	sponding # in block above H-SO+, 4 = NaOH, 5 = Na CH-OH, 7 = NaOH/ZnOA	r analysis field): 2:SrOs, AC. 8 = HsPOs
Email: Corner denvironment	nl.com	REQUESTED LAB ANALYSIS (	+		Matrix Codes (place corresponding W = ground water, WW = waste w L = sludge, A = air, IW = industria		
Project ID: Clouds Cherry ex	al	JESTE	<del>2</del>	(5)	pecify in comments section) Program Area Codes: CWA = Cl ate Drinking Water Act (for drinkin /astes (for solls, ground waters an		
Sampled By: Trever Singe			7-1			nd waste samples)  i, P = Plastic	ind hazardous
Sample ID/Description Date Time Collected: Collected:	Type: Matrix: Progr (grab or composite) (see codes) Arc (see co	des) containers			NOTES / (if sample is a composite please use s	COMMENTS space below to note start/finish	
PW-1R 4/3/14 1335	6 Gw	2 調 2			21		
DW-1 4/2/14 1420	G GW	2 : 2			22		
Dw-2 4/2/14 1501	6 GW	2 計野2			<u>c7</u>		
Dw-3 413/14/601	G GW	2 開始 2			<u> </u>		
DW-4 4/3/14/1409	GGW	2 調引2			그는		
DW-5 HIVIH 1100	6 6w	그 캠페크			<u> </u>		
DW-6 4/1/4/2/8	G 6W	2 5000000			<u> </u>		
Dr-7 4/3/14 1517	6 GW	2 3 3			21		
DW-9 412/14/055	<u>6</u> 6M	2 page 2			22		
Sw-1 4(2/14/1158	6 6W	auished By:	Received By:	Date (	Time   Samples Rec	'd   Sample Terr	on Hoos
Turnaround Time: Project Location:	Heinic	quisneu by.	neceived by.	(mm-dd-yy)	(24HR) on Ice	Receipt	(°C):
StandardSC	fm.		Allu	11/0/11	6351 -Y-	N (°C)	(N/A)
*Date Required:NG (For rush work, results	Ur	Vail-	- layer	4-574	100	(°C)	(N/A)
emailed/faxed by end of busi-Other	l .		111	1 1 1 1	. Y	N 3.5 (°C)	

Pg 7 of 8

See Reverse for Terms and Conditions

LAB USE (	ONLY	Access	Analytical	- Chair	of Custo	ody Record	Project Work O	rder #	1404568
Sales Order #		PO #		A	ccess Quote #		Laboratory ID:		edilaryan.
Company Name:	food Env		Preservative: (*see codes)				9	Access	
Report To: Charles	Crawford E	-nV	Container Type: (*sec codes)					ANALYTICA	L, INC.
City: Rogoe CE	State: Zip:	V 24011	NALYSIS: 1	) + <del> </del>				axs-inc.com	: 781-4303
Phone: 540.343.6 Email: Craw Sovile Cra	anforderin	343625°	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N.			Preservative Codes (place corre. = None, 1 = HCL, 2 = HNO,, 3 = = Method 5035 set w/ NaHSO. & Matrix Codes (place correspondi 3W = ground water, WW = waste \$L = sludge, A = air, IW = industrit specify in comments section)	ng code in matrix column water, DW = drinking water, WO = waste of	n): xter, S = soil, I, OT = other
Sampled By: Track Sample ID/Description	C1 :	Type: Matrix:Pro	gram TOTAL → C	A4				P = Plastic  COMMENT	S
Trio Blank 1	- Onecedia	(see o	codes) constincts				C.(	que nelow to note suryun	on times & aines)
Thio Blank 2	Townson and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second		To constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of	-			-2	***************************************	
FBI	4/3/14 100	G 6W	2 15 2	)			-2		
FBI	4/2/14 14/1	166W	2 開 2				C2		
F83	4/1/14/1140	16 GW	2   3   5   5	2			C2		
Dup A	4/2/14 1015	6 6W	12 1951						
Dro B	412/14/251	6 GW	2 開到 2	2					
DupC	4/3/14 1321	066	2 開到 2						
DupDi	413/14/134	06 GW	2 3 3		:				
			oonizhen conizhen conizhen conizhen conizhen per   per   per						
Turnaround Time:	Project Location	n: Relir	nquished By:	Rec	eived By:	Date (mm-dd-yy)	Time Samples Rec (24HR) on Ice		emp. Upon pt (°C):
Standard RUSH*	X _{sc}	J'sm	3/11/		yat'	4/3/14	1635, -Y-	N(°C)	(N/A)
*Date Required:	- NS	J. J.	gait-	Fle	dup	4-3-14	170 - Y-	(°C)	(N/A)
(For rush work, results emailed/faxed by end of bu			•		W'	4/4/14	//:5 -Y-	N 3.5 (°C)	(N/A)
ness day on date required)	(specify)				/	,	Υ	N	

Pg 8 of 8

See Reverse for Terms and Conditions

Client: Crawford Environmental Services

Project: Clouds Chevron et. al. Case Narrative

Date:

16-Apr-14

Lab ID: 1404588

Volatile Organic Compounds Analysis by Method 8260B:

Sample 1404588-060A as received did not meet method specified preservation requirements of pH <2. The laboratory proceeded with analysis

Due to sample matrix, samples 1404588-003A, -009A, -010A, -016A, -017A, -018A, -019A, -020A, -021A, -030A, -032A, -060A, -061A, -064A, -076A, -078A and -079A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Client: **Crawford Environmental Services** Client Sample ID: MW-2

Project Name: Clouds Chevron et. al. Collection Date: 4/2/2014 12:47:00 PM 1404588-002 Lab ID: Matrix:

Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	170		0.39	1.0	ug/L	189485	1	04/10/2014 20:38	NP
Ethylbenzene	200		0.40	1.0	ug/L	189485	1	04/10/2014 20:38	NP
Methyl tert-butyl ether	320		4.2	10	ug/L	189485	10	04/10/2014 21:04	NP
Naphthalene	150		2.0	50	ug/L	189485	10	04/10/2014 21:04	NP
Toluene	41		0.38	1.0	ug/L	189485	1	04/10/2014 20:38	NP
Xylenes, Total	960		8.3	10	ug/L	189485	10	04/10/2014 21:04	NP
Surr: 4-Bromofluorobenzene	87.1		0	66.2-120	%REC	189485	10	04/10/2014 21:04	NP
Surr: 4-Bromofluorobenzene	96.1		0	66.2-120	%REC	189485	1	04/10/2014 20:38	NP
Surr: Dibromofluoromethane	91		0	79.5-121	%REC	189485	1	04/10/2014 20:38	NP
Surr: Dibromofluoromethane	92		0	79.5-121	%REC	189485	10	04/10/2014 21:04	NP
Surr: Toluene-d8	88.2		0	<b>77-1</b> 17	%REC	189485	10	04/10/2014 21:04	NP
Surr: Toluene-d8	91		0	77-117	%REC	189485	1	04/10/2014 20:38	NP
Oxygenates (AES SOP OA-11010) SW8	260B			(	SW503	0B)			
tert-Amyl alcohol	230		9.5	100	ug/L	189485	1	04/10/2014 20:38	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189485	1	04/10/2014 20:38	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189485	1	04/10/2014 20:38	NP

Qualifiers:

BRL Not detected at MDL

Date:

16-Apr-14

^{*} Value exceeds maximum contaminant level

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

Estimated value detected below Reporting Limit

> Greater than Result value

Less than Result value

Client: Crawford Environmental Services

Project Name: Clouds Chevron et. al.

Lab ID: 1404588-003

Date:

16-Apr-14

Client Sample ID: MW-3

Collection Date:

4/2/2014 10:13:00 AM

Matrix:

Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analysi
Volatile Organic Compounds by GC/MS	SW8260	В			SW5030	0B)		· .	
Benzene	6900		19	50	ug/L	189485	50	04/10/2014 16:03	NP
Ethylbenzene	1200		20	50	ug/L	189485	50	04/10/2014 16:03	NP
Methyl tert-butyl ether	1800		21	50	ug/L	189485	50	04/10/2014 16:03	NP
Naphthalene	600		10	250	ug/L	189485	50	04/10/2014 16:03	NP
Toluene	18000		190	500	ug/L	189485	500	04/10/2014 21:29	NP
Xylenes, Total	16000		41	50	ug/L	189485	50	04/10/2014 16:03	NP
Surr: 4-Bromofluorobenzene	87.8		0	66.2-120	%REC	189485	500	04/10/2014 21:29	NP
Surr: 4-Bromofluorobenzene	90.4		0	66.2-120	%REC	189485	50	04/10/2014 16:03	NP
Surr: Dibromofluoromethane	94		0	79.5-121	%REC	189485	50	04/10/2014 16:03	NP
Surr: Dibromofluoromethane	96.4		0	79.5-121	%REC	189485	500	04/10/2014 21:29	NP
Surr: Toluene-d8	88		0	<b>77</b> -117	%REC	189485	50	04/10/2014 16:03	NP
Surr: Toluene-d8	88.2		0	77-117	%REC	189485	500	04/10/2014 21:29	NP
Oxygenates (AES SOP OA-11010) SW82	260B			(	SW5030	0B)			
tert-Amyl alcohol	980	J	480	5000	ug/L	189485	50	04/10/2014 16:03	NP
tert-Amyl methyl ether	560		50	500	ug/L	189485	50	04/10/2014 16:03	NP
tert-Butyl Alcohol	BRL		340	5000	ug/L	189485	50	04/10/2014 16:03	NP

Qualifiers:

BRL Not detected at MDL

NC Not confirmed

Value exceeds maximum contaminant level

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-4 Project Name: Clouds Chevron et. al. **Collection Date:** 4/2/2014 6:09:00 PM

Lab ID: 1404588-004 Matrix:

Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analys
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5036	0 <b>B</b> )			
Benzene	BRL		0.39	1.0	ug/L	189485	1	04/09/2014 17:50	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	189485	1	04/09/2014 17:50	NP
Methyl tert-butyl ether	3.5		0.42	1.0	ug/L	189485	1	04/09/2014 17:50	NP
Naphthalene	BRL		0.20	5.0	ug/L	189485	1	04/09/2014 17:50	NP
Toluene	BRL		0.38	1.0	ug/L	189485	1	04/09/2014 17:50	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	189485	1	04/09/2014 17:50	NP
Surr: 4-Bromofluorobenzene	97.3		0	66.2-120	%REC	189485	1	04/09/2014 17:50	NP
Surr: Dibromofluoromethane	99.1		0	79.5-121	%REC	189485	1	04/09/2014 17:50	NP
Surr: Toluene-d8	97.9		0	<b>77-</b> 11 <b>7</b>	%REC	189485	1	04/09/2014 17:50	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5030	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189485	1	04/09/2014 17:50	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189485	1	04/09/2014 17:50	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189485	1	04/09/2014 17:50	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

Date:

16-Apr-14

J Estimated value detected below Reporting Limit

Greater than Result value

Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-6

Project Name: Clouds Chevron et. al.

Collection Date: 4/3/2014 8:49:00 AM

Lab ID: 1404588-006 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0 <b>B</b> )			
Benzene	2.6		0.39	1.0	ug/L	189485	1	04/10/2014 20:14	NP
Ethylbenzene	2.4		0.40	1.0	ug/L	189485	1	04/10/2014 20:14	NP
Methyl tert-butyl ether	2.5		0.42	1.0	ug/L	189485	1	04/10/2014 20:14	NP
Naphthalene	4.2	J	0.20	5.0	ug/L	189485	1	04/10/2014 20:14	NP
Toluene	BRL		0.38	1.0	ug/L	189485	1	04/10/2014 20:14	NP
Xylenes, Total	10		0.83	1.0	ug/L	189485	1	04/10/2014 20:14	NP
Surr: 4-Bromofluorobenzene	95.1		0	66.2-120	%REC	189485	1	04/10/2014 20:14	NP
Surr: Dibromofluoromethane	92.7		0	79.5-121	%REC	189485	1	04/10/2014 20:14	NP
Surr: Toluene-d8	92.7		0	77-117	%REC	189485	1	04/10/2014 20:14	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189485	1	04/10/2014 20:14	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189485	1	04/10/2014 20:14	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189485	1	04/10/2014 20:14	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Date:

16-Apr-14

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-7

Project Name: Clouds Chevron et. al.

Lab ID: 1404588-007 Cellett Sample ID: MW-7

A/3/2014 11:31:00 AM

Matrix: Groundwater

Date:

16-Apr-14

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analysi
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	BRL		0.39	1.0	ug/L	189485	1	04/09/2014 18:18	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	189485	1	04/09/2014 18:18	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189485	1	04/09/2014 18:18	NP
Naphthalene	BRL		0.20	5.0	ug/L	189485	1	04/09/2014 18:18	NP
Toluene	BRL		0.38	1.0	ug/L	189485	1	04/09/2014 18:18	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	189485	1	04/09/2014 18:18	NP
Surr: 4-Bromofluorobenzene	93.6		0	66.2-120	%REC	189485	1	04/09/2014 18:18	NP
Surr: Dibromofluoromethane	96.4		0	79.5-121	%REC	189485	1	04/09/2014 18:18	NP
Surr: Toluene-d8	96.8		0	77-117	%REC	189485	1	04/09/2014 18:18	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0 <b>B</b> )			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189485	1	04/09/2014 18:18	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189485	1	04/09/2014 18:18	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189485	1	04/09/2014 18:18	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-8
Project Name: Clouds Chevron et. al. Collection Date: 4/3/2014 12:09:00 PM

Lab ID: 1404588-008 Matrix: Groundwater

					-				
Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503(	<b>DB</b> )			
Benzene	BRL		0.39	1.0	ug/L	189485	1	04/09/2014 18:46	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	189485	1	04/09/2014 18:46	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189485	1	04/09/2014 18:46	NP
Naphthalene	BRL		0.20	5.0	ug/L	189485	1	04/09/2014 18:46	NP
Toluene	BRL		0.38	1.0	ug/L	189485	1	04/09/2014 18:46	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	189485	1	04/09/2014 18:46	NP
Surr: 4-Bromofluorobenzene	92.5		0	66.2-120	%REC	189485	1	04/09/2014 18:46	NP
Surr: Dibromofluoromethane	98.1		0	79.5-121	%REC	189485	1	04/09/2014 18:46	NP
Surr: Toluene-d8	96		0	<b>77-117</b>	%REC	189485	1	04/09/2014 18:46	NP
Oxygenates (AES SOP OA-11010) SW82	260B			(	SW5030	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189485	1	04/09/2014 18:46	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189485	1	04/09/2014 18:46	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189485	1	04/09/2014 18:46	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

Date:

16-Apr-14

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services

Project Name: Clouds Chevron et. al.

Lab ID: 1404588-009

Date:

16-Apr-14

Client Sample ID: MW-9

**Collection Date:** 

4/2/2014 3:00:00 PM

Matrix:

Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	830		19	50	ug/L	189485	50	04/10/2014 22:19	NP
Ethylbenzene	1700		20	50	ug/L	189485	50	04/10/2014 22:19	NP
Methyl tert-butyl ether	BRL		21	50	ug/L	189485	50	04/10/2014 22:19	NP
Naphthalene	590		10	250	ug/L	189485	50	04/10/2014 22:19	NP
Toluene	7500		19	50	ug/L	189485	50	04/10/2014 22:19	NP
Xylenes, Total	14000		41	50	ug/L	189485	50	04/10/2014 22:19	NP
Surr: 4-Bromofluorobenzene	86.9		0	66.2-120	%REC	189485	50	04/10/2014 22:19	NP
Surr: Dibromofluoromethane	93.5		0	79.5-121	%REC	189485	50	04/10/2014 22:19	NP
Surr: Toluene-d8	88.6		0	77-117	%REC	189485	50	04/10/2014 22:19	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5036	0B)			
tert-Amyl alcohol	1700	J	480	5000	ug/L	189485	50	04/10/2014 22:19	NP
tert-Amyl methyl ether	BRL		50	500	ug/L	189485	50	04/10/2014 22:19	NP
tert-Butyl Alcohol	BRL		340	5000	ug/L	189485	50	04/10/2014 22:19	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

Less than Result value
 Narr See case narrative

Client: Crawford Environmental Services Client Sample ID: MW-10

Project Name: Clouds Chevron et. al.

Lab ID: 1404588-010 

Collection Date: 4/1/2014 1:17:00 PM

Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	OB)			
Benzene	1800		19	50	ug/L	189485	50	04/09/2014 16:43	NP
Ethylbenzene	350		20	50	ug/L	189485	50	04/09/2014 16:43	NP
Methyl tert-butyl ether	BRL		21	50	ug/L	189485	50	04/09/2014 16:43	NP
Naphthalene	690		10	250	ug/L	189485	50	04/09/2014 16:43	NP
Toluene	5700		19	50	ug/L	189485	50	04/09/2014 16:43	NP
Xylenes, Total	8500		41	50	ug/L	189485	50	04/09/2014 16:43	NP
Surr: 4-Bromofluorobenzene	90.4		0	66.2-120	%REC	189485	50	04/09/2014 16:43	NP
Surr: Dibromofluoromethane	101		0	79.5-121	%REC	189485	50	04/09/2014 16:43	NP
Surr: Toluene-d8	92.1		0	77-117	%REC	189485	50	04/09/2014 16:43	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	OB)			
tert-Amyl alcohol	BRL		480	5000	ug/L	189485	50	04/09/2014 16:43	NP
tert-Amyl methyl ether	BRL		50	500	ug/L	189485	50	04/09/2014 16:43	NP
tert-Butyl Alcohol	BRL		340	5000	ug/L	189485	50	04/09/2014 16:43	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Date:

16-Apr-14

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-11

Project Name:Clouds Chevron et. al.Collection Date:4/2/2014 3:20:00 PMLab ID:1404588-011Matrix:Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analysi
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	2.3		0.39	1.0	ug/L	189485	1	04/11/2014 11:51	NP
Ethylbenzene	11		0.40	1.0	ug/L	189485	1	04/11/2014 11:51	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189485	1	04/11/2014 11:51	NP
Naphthalene	4.4	J	0.20	5.0	ug/L	189485	1	04/11/2014 11:51	NP
Toluene	1.1		0.38	1.0	ug/L	189485	1	04/11/2014 11:51	NP
Xylenes, Total	4.1		0.83	1.0	ug/L	189485	1	04/11/2014 11:51	NP
Surr: 4-Bromofluorobenzene	87.6		0	66.2-120	%REC	189485	1	04/11/2014 11:51	NP
Surr: Dibromofluoromethane	104		0	79.5-121	%REC	189485	1	04/11/2014 11:51	NP
Surr: Toluene-d8	95.5		0	<b>77-</b> 117	%REC	189485	1	04/11/2014 11:51	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0B)			
tert-Amyl alcohol	120		9.5	100	ug/L	189485	1	04/11/2014 11:51	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189485	1	04/11/2014 11:51	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189485	1	04/11/2014 11:51	NP

Qualifiers:

Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

Date:

16-Apr-14

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-12

Project Name:Clouds Chevron et. al.Collection Date:4/2/2014 3:49:00 PMLab ID:1404588-012Matrix:Groundwater

Date:

16-Apr-14

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	2.9		0.39	1.0	ug/L	189485	1	04/10/2014 18:34	NP
Ethylbenzene	1.6		0.40	1.0	ug/L	189485	1	04/10/2014 18:34	NP
Methyl tert-butyl ether	18		0.42	1.0	ug/L	189485	1	04/10/2014 18:34	NP
Naphthalene	4.7	J	0.20	5.0	ug/L	189485	1	04/10/2014 18:34	NP
Toluene	0.67	J	0.38	1.0	ug/L	189485	1	04/10/2014 18:34	NP
Xylenes, Total	0.91	J	0.83	1.0	ug/L	189485	1	04/10/2014 18:34	NP
Surr: 4-Bromofluorobenzene	87		0	66.2-120	%REC	189485	1	04/10/2014 18:34	NP
Surr: Dibromofluoromethane	95.6		0	79.5-121	%REC	189485	1	04/10/2014 18:34	NP
Surr: Toluene-d8	92.3		0	<b>77</b> -11 <b>7</b>	%REC	189485	1	04/10/2014 18:34	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0 <b>B</b> )			
tert-Amyl alcohol	630		9.5	100	ug/L	189485	1	04/09/2014 19:15	NP
tert-Amyl methyl ether	9.3	J	1.0	10	ug/L	189485	1	04/09/2014 19:15	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189485	1	04/09/2014 19:15	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services

Project Name: Clouds Chevron et. al.

Lab ID: 1404588-013

Client Sample ID:

**Collection Date:** 

MW-13 4/1/2014 3:27:00 PM

16-Apr-14

Matrix:

Groundwater

Date:

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analysi
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	0.62	J	0.39	1.0	ug/L	189485	1	04/09/2014 19:43	NP
Ethylbenzene	4.5		0.40	1.0	ug/L	189485	1	04/09/2014 19:43	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189485	1	04/09/2014 19:43	NP
Naphthalene	31		0.20	5.0	ug/L	189485	1	04/09/2014 19:43	NP
Toluene	8.8		0.38	1.0	ug/L	189485	1	04/09/2014 19:43	NP
Xylenes, Total	86		0.83	1.0	ug/L	189485	1	04/09/2014 19:43	NP
Surr: 4-Bromofluorobenzene	104		0	66.2-120	%REC	189485	1	04/09/2014 19:43	NP
Surr: Dibromofluoromethane	98.4		0	79.5-121	%REC	189485	1	04/09/2014 19:43	NP
Surr: Toluene-d8	97.9		0	77-117	%REC	189485	1	04/09/2014 19:43	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5030	0 <b>B</b> )			
tert-Amyl alcohol	10	J	9.5	100	ug/L	189485	1	04/10/2014 18:59	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189485	1	04/10/2014 18:59	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189485	1	04/10/2014 18:59	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

Estimated value detected below Reporting Limit

Greater than Result value

Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-16

Project Name:Clouds Chevron et. al.Collection Date:4/2/2014 2:47:00 PMLab ID:1404588-015Matrix:Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0 <b>B</b> )			
Benzene	BRL		0.39	1.0	ug/L	189485	1	04/09/2014 20:11	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	189485	1	04/09/2014 20:11	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189485	1	04/09/2014 20:11	NP
Naphthalene	3.4	J	0.20	5.0	ug/L	189485	1	04/09/2014 20:11	NP
Toluene	BRL		0.38	1.0	ug/L	189485	1	04/09/2014 20:11	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	189485	1	04/09/2014 20:11	NP
Surr: 4-Bromofluorobenzene	97.8		0	66.2-120	%REC	189485	1	04/09/2014 20:11	NP
Surr: Dibromofluoromethane	97.3		0	79.5-121	%REC	189485	1	04/09/2014 20:11	NP
Surr: Toluene-d8	98.8		0	77-11 <b>7</b>	%REC	189485	1	04/09/2014 20:11	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5030	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189485	1	04/09/2014 20:11	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189485	1	04/09/2014 20:11	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189485	1	04/09/2014 20:11	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Date:

16-Apr-14

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services

Project Name: Clouds Chevron et. al.

Lab ID: 1404588-016

Date:

16-Apr-14

Client Sample ID: MW-17

Collection Date: 4/2

4/2/2014 2:50:00 PM

Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	280		19	50	ug/L	189485	50	04/10/2014 23:08	NP
Ethylbenzene	450		20	50	ug/L	189485	50	04/10/2014 23:08	NP
Methyl tert-butyl ether	BRL		21	50	ug/L	189485	50	04/10/2014 23:08	NP
Naphthalene	850		10	250	ug/L	189485	50	04/10/2014 23:08	NP
Toluene	5100		19	50	ug/L	189485	50	04/10/2014 23:08	NP
Xylenes, Total	13000		41	50	ug/L	189485	50	04/10/2014 23:08	NP
Surr: 4-Bromofluorobenzene	88.9		0	66.2-120	%REC	189485	50	04/10/2014 23:08	NP
Surr: Dibromofluoromethane	96.4		0	79.5-121	%REC	189485	50	04/10/2014 23:08	NP
Surr: Toluene-d8	90.6		0	<b>77-</b> 117	%REC	189485	50	04/10/2014 23:08	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	OB)			
tert-Amyl alcohol	2200	J	480	5000	ug/L	189485	50	04/10/2014 23:08	NP
tert-Amyl methyl ether	BRL		50	500	ug/L	189485	50	04/10/2014 23:08	NP
tert-Butyl Alcohol	BRL		340	5000	ug/L	189485	50	04/10/2014 23:08	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

Less than Result value
 Narr See case narrative

Client: Crawford Environmental Services Client Sample ID: MW-18
Project Name: Clouds Chevron et. al. Collection Date: 4/2/2014 1:49:00 PM
Lab ID: 1404588-017 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	1900		19	50	ug/L	189485	50	04/10/2014 23:33	NP
Ethylbenzene	630		20	50	ug/L	189485	50	04/10/2014 23:33	NP
Methyl tert-butyl ether	340		21	50	ug/L	189485	50	04/10/2014 23:33	NP
Naphthalene	370		10	250	ug/L	189485	50	04/10/2014 23:33	NP
Toluene	7200		19	50	ug/L	189485	50	04/10/2014 23:33	NP
Xylenes, Total	8300		41	50	ug/L	189485	50	04/10/2014 23:33	NP
Surr: 4-Bromofluorobenzene	89.8		0	66.2-120	%REC	189485	50	04/10/2014 23:33	NP
Surr: Dibromofluoromethane	95.8		0	79.5-121	%REC	189485	50	04/10/2014 23:33	NP
Surr: Toluene-d8	90.2		0	<b>77-117</b>	%REC	189485	50	04/10/2014 23:33	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0B)			
tert-Amyl alcohol	4900	J	480	5000	ug/L	189485	50	04/10/2014 23:33	NP
tert-Amyl methyl ether	70	J	50	500	ug/L	189485	50	04/10/2014 23:33	NP
tert-Butyl Alcohol	BRL		340	5000	ug/L	189485	50	04/10/2014 23:33	NP

ļ

Date:

16-Apr-14

Qualifiers:

Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services

Project Name: Clouds Chevron et. al.

Lab ID: 1404588-018 Date: 16-Apr-14

Client Sample ID: MW-19

**Collection Date:** 

Matrix:

4/3/2014 2:35:00 PM

Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	300		19	50	ug/L	189485	50	04/10/2014 21:54	NP
Ethylbenzene	490		20	50	ug/L	189485	50	04/10/2014 21:54	NP
Methyl tert-butyl ether	BRL		21	50	ug/L	189485	50	04/10/2014 21:54	NP
Naphthalene	900		10	250	ug/L	189485	50	04/10/2014 21:54	NP
Toluene	1800		19	50	ug/L	189485	50	04/10/2014 21:54	NP
Xylenes, Total	12000		41	50	ug/L	189485	50	04/10/2014 21:54	NP
Surr: 4-Bromofluorobenzene	88.1		0	66.2-120	%REC	189485	50	04/10/2014 21:54	NP
Surr: Dibromofluoromethane	92.3		0	79.5-121	%REC	189485	50	04/10/2014 21:54	NP
Surr: Toluene-d8	87.5		0	77-117	%REC	189485	50	04/10/2014 21:54	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0B)			
tert-Amyl alcohol	610	J	480	5000	ug/L	189485	50	04/10/2014 21:54	NP
tert-Amyl methyl ether	BRL		50	500	ug/L	189485	50	04/10/2014 21:54	NP
tert-Butyl Alcohol	BRL		340	5000	ug/L	189485	50	04/10/2014 21:54	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

Estimated value detected below Reporting Limit

> Greater than Result value

Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-20

Project Name: Clouds Chevron et. al.

Lab ID: 1404588-019 Collection Date: 4/3/2014 1:15:00 PM

Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	1800		19	50	ug/L	189485	50	04/11/2014 18:37	NP
Ethylbenzene	460		20	50	ug/L	189485	50	04/11/2014 18:37	NP
Methyl tert-butyl ether	50		21	50	ug/L	189485	50	04/11/2014 18:37	NP
Naphthalene	960		10	250	ug/L	189485	50	04/11/2014 18:37	NP
Toluene	11000		190	500	ug/L	189485	500	04/11/2014 15:35	NP
Xylenes, Total	11000		41	50	ug/L	189485	50	04/11/2014 18:37	NP
Surr: 4-Bromofluorobenzene	86.1		0	66.2-120	%REC	189485	500	04/11/2014 15:35	NP
Surr: 4-Bromofluorobenzene	90		0	66.2-120	%REC	189485	50	04/11/2014 18:37	NP
Surr: Dibromofluoromethane	94		0	79.5-121	%REC	189485	50	04/11/2014 18:37	NP
Surr: Dibromofluoromethane	97		0	79.5-121	%REC	189485	500	04/11/2014 15:35	NP
Surr: Toluene-d8	87.2		0	<b>77-</b> 117	%REC	189485	500	04/11/2014 15:35	NP
Surr: Toluene-d8	90.2		0	77-117	%REC	189485	50	04/11/2014 18:37	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5030	)B)			
tert-Amyl alcohol	3100	J	480	5000	ug/L	189485	50	04/11/2014 18:37	NP
tert-Amyl methyl ether	65	J	50	500	ug/L	189485	50	04/11/2014 18:37	NP
tert-Butyl Alcohol	BRL		340	5000	ug/L	189485	50	04/11/2014 18:37	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Date:

16-Apr-14

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-22

Project Name:Clouds Chevron et. al.Collection Date:4/3/2014 12:44:00 PMLab ID:1404588-020Matrix:Groundwater

16-Apr-14

Date:

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	5700		19	50	ug/L	189485	50	04/11/2014 00:23	NP
Ethylbenzene	880		20	50	ug/L	189485	50	04/11/2014 00:23	NP
Methyl tert-butyl ether	BRL		21	50	ug/L	189485	50	04/11/2014 00:23	NP
Naphthalene	990		10	250	ug/L	189485	50	04/11/2014 00:23	NP
Toluene	12000		190	500	ug/L	189485	500	04/11/2014 14:45	NP
Xylenes, Total	23000		410	500	ug/L	189485	500	04/11/2014 14:45	NP
Surr: 4-Bromofluorobenzene	88.9		0	66.2-120	%REC	189485	500	04/11/2014 14:45	NP
Surr: 4-Bromofluorobenzene	90.7		0	66.2-120	%REC	189485	50	04/11/2014 00:23	NP
Surr: Dibromofluoromethane	94.2		0	79.5-121	%REC	189485	50	04/11/2014 00:23	NP
Surr: Dibromofluoromethane	94.6		0	79.5-121	%REC	189485	500	04/11/2014 14:45	NP
Surr: Toluene-d8	88.2		0	7 <b>7</b> -117	%REC	189485	500	04/11/2014 14:45	NP
Surr: Toluene-d8	89.8		0	<b>77-</b> 117	%REC	189485	50	04/11/2014 00:23	NP
Oxygenates (AES SOP OA-11010) SW82	260B			(	SW503	0B)			
tert-Amyl alcohol	3600	J	480	5000	ug/L	189485	50	04/11/2014 00:23	NP
tert-Amyl methyl ether	BRL		50	500	ug/L	189485	50	04/11/2014 00:23	NP
tert-Butyl Alcohol	BRL		340	5000	ug/L	189485	50	04/11/2014 00:23	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services

Project Name: Clouds Chevron et. al.

**Lab ID:** 1404588-021

Date:

16-Apr-14

Client Sample ID: MW-23

Collection Date:

4/3/2014 2:35:00 PM

Matrix:

Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analys
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	4200		19	50	ug/L	189488	50	04/09/2014 15:03	NP
Ethylbenzene	880		20	50	ug/L	189488	50	04/09/2014 15:03	NP
Methyl tert-butyl ether	120		21	50	ug/L	189488	50	04/09/2014 15:03	NP
Naphthalene	1100		10	250	ug/L	189488	50	04/09/2014 15:03	NP
Toluene	16000		190	500	ug/L	189488	500	04/09/2014 16:18	NP
Xylenes, Total	19000		41	50	ug/L	189488	50	04/09/2014 15:03	NP
Surr: 4-Bromofluorobenzene	91.6		0	66.2-120	%REC	189488	500	04/09/2014 16:18	NP
Surr: 4-Bromofluorobenzene	93.1		0	66.2-120	%REC	189488	50	04/09/2014 15:03	NP
Surr: Dibromofluoromethane	101		0	79.5-121	%REC	189488	500	04/09/2014 16:18	NP
Surr: Dibromofluoromethane	102		0	79.5-121	%REC	189488	50	04/09/2014 15:03	NP
Surr: Toluene-d8	90.6		0	<b>77-</b> 11 <b>7</b>	%REC	189488	500	04/09/2014 16:18	NP
Surr: Toluene-d8	93.6		0	77-117	%REC	189488	50	04/09/2014 15:03	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5030	)B)			
tert-Amyl alcohol	5900		480	5000	ug/L	189488	50	04/09/2014 15:03	NP
tert-Amyl methyl ether	BRL		50	500	ug/L	189488	50	04/09/2014 15:03	NP
tert-Butyl Alcohol	BRL		340	5000	ug/L	189488	50	04/09/2014 15:03	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-25

Project Name:Clouds Chevron et. al.Collection Date:4/1/2014 9:12:00 AMLab ID:1404588-022Matrix:Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	5.5		0.39	1.0	ug/L	189488	1	04/11/2014 13:31	NP
Ethylbenzene	320		20	50	ug/L	189488	50	04/11/2014 00:47	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189488	1	04/11/2014 13:31	NP
Naphthalene	1300		10	250	ug/L	189488	50	04/11/2014 00:47	NP
Toluene	200		19	50	ug/L	189488	50	04/11/2014 00:47	NP
Xylenes, Total	4400		41	50	ug/L	189488	50	04/11/2014 00:47	NP
Surr: 4-Bromofluorobenzene	91.4		0	66.2-120	%REC	189488	50	04/11/2014 00:47	NP
Surr: 4-Bromofluorobenzene	97.2		0	66.2-120	%REC	189488	1	04/11/2014 13:31	NP
Surr: Dibromofluoromethane	100		0	79.5-121	%REC	189488	50	04/11/2014 00:47	NP
Surr: Dibromofluoromethane	90.5		0	79.5-121	%REC	189488	1	04/11/2014 13:31	NP
Surr: Toluene-d8	90.4		0	<b>77-</b> 117	%REC	189488	50	04/11/2014 00:47	NP
Surr: Toluene-d8	89		0	<b>77</b> -117	%REC	189488	1	04/11/2014 13:31	NP
Oxygenates (AES SOP OA-11010) SW82	260B			(	SW503	0B)			
tert-Amyl alcohol	170		9.5	100	ug/L	189488	1	04/11/2014 13:31	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189488	1	04/11/2014 13:31	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189488	1	04/11/2014 13:31	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

Date:

16-Apr-14

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-26

Project Name:Clouds Chevron et. al.Collection Date:4/3/2014 11:55:00 AMLab ID:1404588-023Matrix:Groundwater

Date:

16-Apr-14

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	BRL		0.39	1.0	ug/L	189488	1	04/09/2014 20:39	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	189488	1	04/09/2014 20:39	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189488	1	04/09/2014 20:39	NP
Naphthalene	BRL		0.20	5.0	ug/L	189488	1	04/09/2014 20:39	NP
Toluene	BRL		0.38	1.0	ug/L	189488	1	04/09/2014 20:39	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	189488	1	04/09/2014 20:39	NP
Surr: 4-Bromofluorobenzene	96.4		0	66.2-120	%REC	189488	1	04/09/2014 20:39	NP
Surr: Dibromofluoromethane	98.2		0	79.5-121	%REC	189488	1	04/09/2014 20:39	NP
Surr: Toluene-d8	96.7		0	<b>77</b> -117	%REC	189488	1	04/09/2014 20:39	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189488	1	04/09/2014 20:39	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189488	1	04/09/2014 20:39	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189488	1	04/09/2014 20:39	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services

Project Name: Clouds Chevron et. al.

Lab ID: 1404588-024

Date:

16-Apr-14

Client Sample ID: MW-27

Collection Date:

4/1/2014 9:08:00 AM

Matrix:

Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analysi
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	OB)			
Benzene	BRL		0.39	1.0	ug/L	189488	1	04/09/2014 21:07	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	189488	1	04/09/2014 21:07	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189488	1	04/09/2014 21:07	NP
Naphthalene	BRL		0.20	5.0	ug/L	189488	1	04/09/2014 21:07	NP
Toluene	BRL		0.38	1.0	ug/L	189488	1	04/09/2014 21:07	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	189488	1	04/09/2014 21:07	NP
Surr: 4-Bromofluorobenzene	96.9		0	66.2-120	%REC	189488	1	04/09/2014 21:07	NP
Surr: Dibromofluoromethane	98.5		0	<b>7</b> 9.5-121	%REC	189488	1	04/09/2014 21:07	NP
Surr: Toluene-d8	95.7		0	<b>77-</b> 117	%REC	189488	1	04/09/2014 21:07	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5030	OB)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189488	1	04/09/2014 21:07	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189488	1	04/09/2014 21:07	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189488	1	04/09/2014 21:07	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-28

Project Name: Clouds Chevron et. al.

Lab ID: 1404588-025 Collection Date: 4/1/2014 9:03:00 AM

Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analys
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	BRL		0.39	1.0	ug/L	189488	1	04/09/2014 21:35	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	189488	1	04/09/2014 21:35	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189488	1	04/09/2014 21:35	NP
Naphthalene	BRL		0.20	5.0	ug/L	189488	1	04/09/2014 21:35	NP
Toluene	BRL		0.38	1.0	ug/L	189488	1	04/09/2014 21:35	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	189488	1	04/09/2014 21:35	NP
Surr: 4-Bromofluorobenzene	95.3		0	66.2-120	%REC	189488	1	04/09/2014 21:35	NP
Surr: Dibromofluoromethane	99.6		0	79.5-121	%REC	189488	1	04/09/2014 21:35	NP
Surr: Toluene-d8	98.1		0	77-117	%REC	189488	1	04/09/2014 21:35	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5030	OB)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189488	1	04/09/2014 21:35	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189488	1	04/09/2014 21:35	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189488	1	04/09/2014 21:35	NΡ

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

Date:

16-Apr-14

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-29
Project Name: Clouds Chevron et. al. Collection Date: 4/1/2014 9:43:00 AM

Lab ID: 1404588-026 Matrix: Groundwater

Analyses	Result	Oual	MDL	Reporting	Units	BatchID	DF	Date Analyzed	Analys
<u> </u>				Limit					
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0 <b>B</b> )			
Benzene	BRL		0.39	1.0	ug/L	189488	1	04/09/2014 22:03	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	189488	1	04/09/2014 22:03	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189488	1	04/09/2014 22:03	NP
Naphthalene	BRL		0.20	5.0	ug/L	189488	1	04/09/2014 22:03	NP
Toluene	BRL		0.38	1.0	ug/L	189488	1	04/09/2014 22:03	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	189488	1	04/09/2014 22:03	NP
Surr: 4-Bromofluorobenzene	93.4		0	66.2-120	%REC	189488	1	04/09/2014 22:03	NP
Surr: Dibromofluoromethane	100		0	79.5-121	%REC	189488	1	04/09/2014 22:03	NP
Surr: Toluene-d8	97.5		0	<b>77-</b> 117	%REC	189488	1	04/09/2014 22:03	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189488	1	04/09/2014 22:03	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189488	1	04/09/2014 22:03	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189488	1	04/09/2014 22:03	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

16-Apr-14

Date:

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-30

Project Name: Clouds Chevron et. al.

Lab ID: 1404588-027

Collection Date: 4/1/2014 10:07:00 AM
Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	DB)			
Benzene	BRL		0.39	1.0	ug/L	189488	1	04/09/2014 22:32	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	189488	1	04/09/2014 22:32	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189488	1	04/09/2014 22:32	NP
Naphthalene	BRL		0.20	5.0	ug/L	189488	1	04/09/2014 22:32	NP
Toluene	BRL		0.38	1.0	ug/L	189488	1	04/09/2014 22:32	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	189488	1	04/09/2014 22:32	NP
Surr: 4-Bromofluorobenzene	91.8		0	66.2-120	%REC	189488	1	04/09/2014 22:32	NP
Surr: Dibromofluoromethane	102		0	79.5-121	%REC	189488	1	04/09/2014 22:32	NP
Surr: Toluene-d8	100		0	77-117	%REC	189488	1	04/09/2014 22:32	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	OB)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189488	1	04/09/2014 22:32	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189488	1	04/09/2014 22:32	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189488	1	04/09/2014 22:32	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

Date:

16-Apr-14

> Greater than Result value

Less than Result value
 Narr See case narrative

Client: Crawford Environmental Services

Project Name: Clouds Chevron et. al.

**Lab ID:** 1404588-028

Date: 16-Apr-14

Client Sample ID: MW-31

Collection Date:

4/2/2014 1:56:00 PM

Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	0.90	J	0.39	1.0	ug/L	189488	1	04/09/2014 23:00	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	189488	1	04/09/2014 23:00	NP
Methyl tert-butyl ether	2.7		0.42	1.0	ug/L	189488	1	04/09/2014 23:00	NP
Naphthalene	BRL		0.20	5.0	ug/L	189488	1	04/09/2014 23:00	NP
Toluene	BRL		0.38	1.0	ug/L	189488	1	04/09/2014 23:00	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	189488	1	04/09/2014 23:00	NP
Surr: 4-Bromofluorobenzene	94.1		0	66.2-120	%REC	189488	1	04/09/2014 23:00	NP
Surr: Dibromofluoromethane	99.9		0	79.5-121	%REC	189488	1	04/09/2014 23:00	NP
Surr: Toluene-d8	99.6		0	77-117	%REC	189488	1	04/09/2014 23:00	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0B)			
tert-Amyl alcohol	59	J	9.5	100	ug/L	189488	1	04/09/2014 23:00	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189488	1	04/09/2014 23:00	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189488	1	04/09/2014 23:00	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-32

Project Name:Clouds Chevron et. al.Collection Date:4/2/2014 10:15:00 AMLab ID:1404588-029Matrix:Groundwater

Date:

16-Apr-14

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В			SW503	0B)			
Benzene	0.94	J	0.39	1.0	ug/L	189488	1	04/10/2014 19:24	NP
Ethylbenzene	1.9		0.40	1.0	ug/L	189488	1	04/10/2014 19:24	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189488	1	04/10/2014 19:24	NP
Naphthalene	6.6		0.20	5.0	ug/L	189488	1	04/10/2014 19:24	NP
Toluene	BRL		0.38	1.0	ug/L	189488	1	04/10/2014 19:24	NP
Xylenes, Total	2.4		0.83	1.0	ug/L	189488	1	04/10/2014 19:24	NP
Surr: 4-Bromofluorobenzene	89.9		0	66.2-120	%REC	189488	1	04/10/2014 19:24	NP
Surr: Dibromofluoromethane	90.7		0	79.5-121	%REC	189488	1	04/10/2014 19:24	NP
Surr: Toluene-d8	90.8		0	77-117	%REC	189488	1	04/10/2014 19:24	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5030	OB)			
tert-Amyl alcohol	170		9.5	100	ug/L	189488	1	04/09/2014 23:28	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189488	1	04/09/2014 23:28	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189488	1	04/09/2014 23:28	NP

Qualifiers:

Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-33

Project Name:Clouds Chevron et. al.Collection Date:4/1/2014 10:24:00 AMLab ID:1404588-030Matrix:Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5036	0 <b>B</b> )			
Benzene	560		19	50	ug/L	189488	50	04/11/2014 19:02	NP
Ethylbenzene	2500		20	50	ug/L	189488	50	04/11/2014 19:02	NP
Methyl tert-butyl ether	BRL		21	50	ug/L	189488	50	04/11/2014 19:02	NP
Naphthalene	670		10	250	ug/L	189488	50	04/11/2014 19:02	NP
Toluene	5200		19	50	ug/L	189488	50	04/11/2014 19:02	NP
Xylenes, Total	6900		41	50	ug/L	189488	50	04/11/2014 19:02	NP
Surr: 4-Bromofluorobenzene	89.3		0	66.2-120	%REC	189488	50	04/11/2014 19:02	NP
Surr: Dibromofluoromethane	94.6		0	79.5-121	%REC	189488	50	04/11/2014 19:02	NP
Surr: Toluene-d8	88.1		0	77-117	%REC	189488	50	04/11/2014 19:02	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5030	<b>OB</b> )			
tert-Amyl alcohol	4100	J	480	5000	ug/L	189488	50	04/11/2014 19:02	NP
tert-Amyl methyl ether	BRL		50	500	ug/L	189488	50	04/11/2014 19:02	NP
tert-Butyl Alcohol	BRL		340	5000	ug/L	189488	50	04/11/2014 19:02	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

Date:

16-Apr-14

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-34

Project Name: Clouds Chevron et. al. Collection Date: 4/1/2014 10:30:00 AM

BRL

Lab ID: 1404588-031 Matrix: Groundwater

Reporting Qual MDL Units BatchID DF Date Analyzed Analyst Analyses Result Limit Volatile Organic Compounds by GC/MS SW8260B (SW5030B) BRL 0.39 ug/L Benzene 1.0 189488 04/09/2014 23:56 NP BRL 0.40 ug/L Ethylbenzene 1.0 189488 04/09/2014 23:56 NP Methyl tert-butyl ether BRL 0.42 1.0 ug/L 189488 04/09/2014 23:56 NP 1 Naphthalene BRL 0.20 5.0 ug/L 189488 04/09/2014 23:56 NP Toluene BRL 0.38 1.0 ug/L 189488 04/09/2014 23:56 NP Xylenes, Total BRL 0.83 1.0 ug/L 189488 04/09/2014 23:56 NP Surr: 4-Bromofluorobenzene 95.8 0 66.2-120 %REC 189488 04/09/2014 23:56 NP 0 %REC Surr: Dibromofluoromethane 100 79.5-121 189488 1 04/09/2014 23:56 NP Surr: Toluene-d8 98.4 0 77-117 %REC 189488 1 04/09/2014 23:56 NP Oxygenates (AES SOP OA-11010) SW8260B (SW5030B) tert-Amyl alcohol 39 9.5 100 ug/L 189488 04/09/2014 23:56 NP BRL tert-Amyl methyl ether 1.0 10 ug/L 189488 1 04/09/2014 23:56 NP

6.8

100

ug/L

189488

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

Date:

16-Apr-14

04/09/2014 23:56

NP

> Greater than Result value

Less than Result value

Narr See case narrative

tert-Butyl Alcohol

Client: Crawford Environmental Services Client Sample ID: MW-35

Project Name: Clouds Chevron et. al. Collection Date: 4/1/2014 10:55:00 AM

Lab ID: 1404588-032 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0 <b>B</b> ) ·			
Benzene	3700		19	50	ug/L	189488	50	04/11/2014 01:37	NP
Ethylbenzene	2000		20	50	ug/L	189488	50	04/11/2014 01:37	NP
Methyl tert-butyl ether	160		21	50	ug/L	189488	50	04/11/2014 01:37	NP
Naphthalene	550		10	250	ug/L	189488	50	04/11/2014 01:37	NP
Toluene	4300		19	50	ug/L	189488	50	04/11/2014 01:37	NP
Xylenes, Total	6200		41	50	ug/L	189488	50	04/11/2014 01:37	NP
Surr: 4-Bromofluorobenzene	88.2		0	66.2-120	%REC	189488	50	04/11/2014 01:37	NP
Surr: Dibromofluoromethane	95.5		0	79.5-121	%REC	189488	50	04/11/2014 01:37	NP
Surr: Toluene-d8	89.1		0	77-117	%REC	189488	50	04/11/2014 01:37	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0 <b>B</b> )			
tert-Amyl alcohol	5600		480	5000	ug/L	189488	50	04/11/2014 01:37	NP
tert-Amyl methyl ether	54	J	50	500	ug/L	189488	50	04/11/2014 01:37	NP
tert-Butyl Alcohol	BRL		340	5000	ug/L	189488	50	04/11/2014 01:37	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Date:

16-Apr-14

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services **Client Sample ID:** 

MW-36 Project Name: Clouds Chevron et. al. **Collection Date:** 4/1/2014 10:19:00 AM Lab ID: 1404588-033 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analysi
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	5.1		0.39	1.0	ug/L	189488	1	04/10/2014 00:24	NP
Ethylbenzene	38		0.40	1.0	ug/L	189488	1	04/10/2014 00:24	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189488	1	04/10/2014 00:24	NP
Naphthalene	55		0.20	5.0	ug/L	189488	1	04/10/2014 00:24	NP
Toluene	BRL		0.38	1.0	ug/L	189488	1	04/10/2014 00:24	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	189488	1	04/10/2014 00:24	NP
Surr: 4-Bromofluorobenzene	99.8		0	66.2-120	%REC	189488	1	04/10/2014 00:24	NP
Surr: Dibromofluoromethane	98.2		0	79.5-121	%REC	189488	1	04/10/2014 00:24	NP
Surr: Toluene-d8	101		0	<b>77-</b> 117	%REC	189488	1	04/10/2014 00:24	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0B)			
tert-Amyl alcohol	96	J	9.5	100	ug/L	189488	1	04/10/2014 00:24	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189488	1	04/10/2014 00:24	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189488	1	04/10/2014 00:24	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

Estimated value detected below Reporting Limit

Date:

16-Apr-14

> Greater than Result value

Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-37

Project Name:Clouds Chevron et. al.Collection Date:4/1/2014 11:25:00 AMLab ID:1404588-034Matrix:Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	OB)			
Benzene	BRL		0.39	1.0	ug/L	189488	1	04/10/2014 00:52	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	189488	1	04/10/2014 00:52	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189488	1	04/10/2014 00:52	NP
Naphthalene	3.7	J	0.20	5.0	ug/L	189488	1	04/10/2014 00:52	NP
Toluene	BRL		0.38	1.0	ug/L	189488	1	04/10/2014 00:52	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	189488	1	04/10/2014 00:52	NP
Surr: 4-Bromofluorobenzene	96.5		0	66.2-120	%REC	189488	1	04/10/2014 00:52	NP
Surr: Dibromofluoromethane	99.7		0	79.5-121	%REC	189488	1	04/10/2014 00:52	NP
Surr: Toluene-d8	97.7		0	77-117	%REC	189488	1	04/10/2014 00:52	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189488	1	04/10/2014 00:52	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189488	1	04/10/2014 00:52	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189488	1	04/10/2014 00:52	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Date:

16-Apr-14

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-38

Project Name: Clouds Chevron et. al.

Lab ID: 1404588-035

Collection Date: 4/1/2014 11:35:00 AM
Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	OB)			
Benzene	BRL		. 0.39	1.0	ug/L	189488	1	04/10/2014 09:55	SB
Ethylbenzene	BRL		0.40	1.0	ug/L	189488	1	04/10/2014 09:55	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189488	1	04/10/2014 09:55	SB
Naphthalene	BRL		0.20	5.0	ug/L	189488	1	04/10/2014 09:55	SB
Toluene	BRL		0.38	1.0	ug/L	189488	1	04/10/2014 09:55	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189488	1	04/10/2014 09:55	SB
Surr: 4-Bromofluorobenzene	92.2		0	66.2-120	%REC	189488	1	04/10/2014 09:55	SB
Surr: Dibromofluoromethane	96.9		0	79.5-121	%REC	189488	1	04/10/2014 09:55	SB
Surr: Toluene-d8	96		0	<b>77-117</b>	%REC	189488	1	04/10/2014 09:55	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	OB)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189488	1	04/10/2014 09:55	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189488	1	04/10/2014 09:55	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189488	1	04/10/2014 09:55	SB

Qualifiers:

Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Date:

16-Apr-14

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services

Project Name: Clouds Chevron et. al.

**Lab ID:** 1404588-036

Date: 16-Apr-14

Client Sample ID: MW-39

Collection Date: 4/2/2014 12:13:00 PM

Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	OB)			
Benzene	BRL		0.39	1.0	ug/L	189488	1	04/10/2014 10:24	SB
Ethylbenzene	2.2		0.40	1.0	ug/L	189488	1	04/10/2014 10:24	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189488	1	04/10/2014 10:24	SB
Naphthalene	3.3	J	0.20	5.0	ug/L	189488	1	04/10/2014 10:24	SB
Toluene	3.2		0.38	1.0	ug/L	189488	1	04/10/2014 10:24	SB
Xylenes, Total	14		0.83	1.0	ug/L	189488	1	04/10/2014 10:24	SB
Surr: 4-Bromofluorobenzene	100		0	66.2-120	%REC	189488	1	04/10/2014 10:24	SB
Surr: Dibromofluoromethane	104		0	79.5-121	%REC	189488	1	04/10/2014 10:24	SB
Surr: Toluene-d8	98.5		0	<b>77-</b> 117	%REC	189488	1	04/10/2014 10:24	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0 <b>B</b> )			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189488	1	04/10/2014 10:24	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189488	1	04/10/2014 10:24	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189488	1	04/10/2014 10:24	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services

Project Name: Clouds Chevron et. al.

**Lab ID:** 1404588-037

Date:

16-Apr-14

Client Sample ID: MW-40

Collection Date:

4/2/2014 12:18:00 PM

Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	DB)			
Benzene	5.8		0.39	1.0	ug/L	189488	1	04/10/2014 10:52	SB
Ethylbenzene	2.0		0.40	1.0	ug/L	189488	1	04/10/2014 10:52	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189488	1	04/10/2014 10:52	SB
Naphthalene	24		0.20	5.0	ug/L	189488	1	04/10/2014 10:52	SB
Toluene	14		0.38	1.0	ug/L	189488	1	04/10/2014 10:52	SB
Xylenes, Total	580		8.3	10	ug/L	189488	10	04/10/2014 18:52	SB
Surr: 4-Bromofluorobenzene	103		0	66.2-120	%REC	189488	10	04/10/2014 18:52	SB
Surr: 4-Bromofluorobenzene	109		0	66.2-120	%REC	189488	1	04/10/2014 10:52	SB
Surr: Dibromofluoromethane	96		0	79.5-121	%REC	189488	1	04/10/2014 10:52	SB
Surr: Dibromofluoromethane	99.9		0	79.5-121	%REC	189488	10	04/10/2014 18:52	SB
Surr: Toluene-d8	99.3		0	<i>7</i> 7-117	%REC	189488	1	04/10/2014 10:52	SB
Surr: Toluene-d8	98.8		0	<b>77-</b> 117	%REC	189488	10	04/10/2014 18:52	SB
Oxygenates (AES SOP OA-11010) SW82	260B			(	SW503	<b>OB</b> )			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189488	1	04/10/2014 10:52	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189488	1	04/10/2014 10:52	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189488	1	04/10/2014 10:52	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-41

Project Name:Clouds Chevron et. al.Collection Date:4/1/2014 12:27:00 PMLab ID:1404588-038Matrix:Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	BRL		0.39	1.0	ug/L	189488	1	04/10/2014 12:45	SB
Ethylbenzene	BRL		0.40	1.0	ug/L	189488	1	04/10/2014 12:45	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189488	1	04/10/2014 12:45	SB
Naphthalene	BRL		0.20	5.0	ug/L	189488	1	04/10/2014 12:45	SB
Toluene	BRL		0.38	1.0	ug/L	189488	1	04/10/2014 12:45	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189488	1	04/10/2014 12:45	SB
Surr: 4-Bromofluorobenzene	95.1		0	66.2-120	%REC	189488	1	04/10/2014 12:45	SB
Surr: Dibromofluoromethane	99.3		0	79.5-121	%REC	189488	1	04/10/2014 12:45	SB
Surr: Toluene-d8	96.5	_	0	77-117	%REC	189488	1	04/10/2014 12:45	SB
Oxygenates (AES SOP OA-11010) SW82	60B	•		(	SW5036	OB)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189488	1	04/10/2014 12:45	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189488	1	04/10/2014 12:45	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189488	1	04/10/2014 12:45	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

Date:

16-Apr-14

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-42

Project Name: Clouds Chayron et al.

Callection Parts: Al. (2014)

Project Name:Clouds Chevron et. al.Collection Date:4/1/2014 11:56:00 AMLab ID:1404588-039Matrix:Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	OB)			
Benzene	BRL		0.39	1.0	ug/L	189488	1	04/10/2014 11:48	SB
Ethylbenzene	BRL		0.40	1.0	ug/L	189488	1	04/10/2014 11:48	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189488	1	04/10/2014 11:48	SB
Naphthalene	BRL		0.20	5.0	ug/L	189488	1	04/10/2014 11:48	SB
Toluene	BRL		0.38	1.0	ug/L	189488	1	04/10/2014 11:48	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189488	1	04/10/2014 11:48	SB
Surr: 4-Bromofluorobenzene	95.1		0	66.2-120	%REC	189488	1	04/10/2014 11:48	SB
Surr: Dibromofluoromethane	97.3		0	79.5-121	%REC	189488	1	04/10/2014 11:48	SB
Surr: Toluene-d8	94.8		0	<b>77-</b> 11 <b>7</b>	%REC	189488	1	04/10/2014 11:48	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5030	DB)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189488	1	04/10/2014 11:48	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189488	1	04/10/2014 11:48	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189488	1	04/10/2014 11:48	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

Date:

16-Apr-14

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value
Narr See case narrative

Client: Crawford Environmental Services Client Sample ID: MW-43

Project Name: Clouds Chevron et. al. Collection Date: 4/2/2014 2:28:00 PM

Lab ID: 1404588-040 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В			SW5030	DB)			<del></del>
Benzene	BRL		0.39	1.0	ug/L	189488	1	04/10/2014 12:17	SB
Ethylbenzene	BRL		0.40	1.0	ug/L	189488	1	04/10/2014 12:17	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189488	1	04/10/2014 12:17	SB
Naphthalene	BRL		0.20	5.0	ug/L	189488	1	04/10/2014 12:17	SB
Toluene	BRL		0.38	1.0	ug/L	189488	1	04/10/2014 12:17	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189488	1	04/10/2014 12:17	SB
Surr: 4-Bromofluorobenzene	93.8		0	66.2-120	%REC	189488	1	04/10/2014 12:17	SB
Surr: Dibromofluoromethane	97		0	79.5-121	%REC	189488	1	04/10/2014 12:17	SB
Surr: Toluene-d8	96.7		0	77-117	%REC	189488	1	04/10/2014 12:17	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5030	)B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189488	1	04/10/2014 12:17	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189488	1	04/10/2014 12:17	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189488	1	04/10/2014 12:17	SB

Qualifiers:

Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Date:

16-Apr-14

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-44

Project Name: Clouds Chevron et. al.

Lab ID: 1404588-041

Collection Date: 4/1/2014 2:20:00 PM

Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analysi
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	BRL		0.39	1.0	ug/L	189490	i	04/10/2014 13:13	SB
Ethylbenzene	BRL		0.40	1.0	ug/L	189490	1	04/10/2014 13:13	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189490	1	04/10/2014 13:13	SB
Naphthalene	BRL		0.20	5.0	ug/L	189490	1	04/10/2014 13:13	SB
Toluene	BRL		0.38	1.0	ug/L	189490	1	04/10/2014 13:13	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189490	1	04/10/2014 13:13	SB
Surr: 4-Bromofluorobenzene	93		0	66.2-120	%REC	189490	1	04/10/2014 13:13	SB
Surr: Dibromofluoromethane	96.6		0	<b>7</b> 9.5-1 <b>2</b> 1	%REC	189490	1	04/10/2014 13:13	SB
Surr: Toluene-d8	95.4		0	<b>77-</b> 11 <b>7</b>	%REC	189490	1	04/10/2014 13:13	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189490	1	04/10/2014 13:13	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189490	1	04/10/2014 13:13	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189490	1	04/10/2014 13:13	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

Date:

16-Apr-14

> Greater than Result value

Less than Result value
 Narr
 See case narrative

Client: **Crawford Environmental Services** Client Sample ID: MW-45

Project Name: Clouds Chevron et. al. Collection Date: 4/1/2014 2:22:00 PM

1404588-042 Lab ID: Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	3		(	SW503	0B)			
Benzene	BRL		0.39	1.0	ug/L	189490	1	04/10/2014 13:41	SB
Ethylbenzene	BRL		0.40	1.0	ug/L	189490	1	04/10/2014 13:41	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189490	1	04/10/2014 13:41	SB
Naphthalene	BRL		0.20	5.0	ug/L	189490	1	04/10/2014 13:41	SB
Toluene	BRL		0.38	1.0	ug/L	189490	1	04/10/2014 13:41	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189490	1	04/10/2014 13:41	SB
Surr: 4-Bromofluorobenzene	96		0	66.2-120	%REC	189490	1	04/10/2014 13:41	SB
Surr: Dibromofluoromethane	101		0	79.5-121	%REC	189490	1	04/10/2014 13:41	SB
Surr: Toluene-d8	97.6		0	<b>77-</b> 117	%REC	189490	1	04/10/2014 13:41	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189490	1	04/10/2014 13:41	SB
tert-Amyl methyl ether	BRL		1.0	10	u <b>g/</b> L	189490	1	04/10/2014 13:41	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189490	1	04/10/2014 13:41	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Date:

16-Apr-14

S Spike Recovery outside limits due to matrix

Estimated value detected below Reporting Limit

> Greater than Result value

Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-46

Project Name:Clouds Chevron et. al.Collection Date:4/1/2014 2:30:00 PMLab ID:1404588-043Matrix:Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	BRL		0.39	1.0	ug/L	189490	1	04/10/2014 14:09	SB
Ethylbenzene	BRL		0.40	1.0	ug/L	189490	1	04/10/2014 14:09	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189490	1	04/10/2014 14:09	SB
Naphthalene	BRL		0.20	5.0	ug/L	189490	1	04/10/2014 14:09	SB
Toluene	BRL		0.38	1.0	ug/L	189490	1	04/10/2014 14:09	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189490	1	04/10/2014 14:09	SB
Surr: 4-Bromofluorobenzene	90.3		0	66.2-120	%REC	189490	1	04/10/2014 14:09	SB
Surr: Dibromofluoromethane	96.8		0	79.5-121	%REC	189490	1	04/10/2014 14:09	SB
Surr: Toluene-d8	97.4		0	<b>77-</b> 117	%REC	189490	1	04/10/2014 14:09	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189490	1	04/10/2014 14:09	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189490	1	04/10/2014 14:09	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189490	1	04/10/2014 14:09	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

16-Apr-14

Date:

> Greater than Result value

Less than Result value
 Narr See case narrative

Client: Crawford Environmental Services

Project Name: Clouds Chevron et. al.

**Lab ID:** 1404588-044

Date: 16-Apr-14

Client Sample ID: MW-48

Collection Date: 4/2/2014 2:38:00 PM

Matrix:

Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analys
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	OB)			
Benzene	BRL		0.39	1.0	ug/L	189490	1	04/10/2014 14:37	SB
Ethylbenzene	BRL		0.40	1.0	ug/L	189490	1	04/10/2014 14:37	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189490	1	04/10/2014 14:37	SB
Naphthalene	BRL		0.20	5.0	ug/L	189490	1	04/10/2014 14:37	SB
Toluene	BRL		0.38	1.0	ug/L	189490	1	04/10/2014 14:37	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189490	1	04/10/2014 14:37	SB
Surr: 4-Bromofluorobenzene	94.8		0	66.2-120	%REC	189490	1	04/10/2014 14:37	SB
Surr: Dibromofluoromethane	101		0	79.5-121	%REC	189490	1	04/10/2014 14:37	SB
Surr: Toluene-d8	97.4		0	<b>77-</b> 117	%REC	189490	1	04/10/2014 14:37	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5030	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189490	1	04/10/2014 14:37	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189490	1	04/10/2014 14:37	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189490	1	04/10/2014 14:37	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-51

Project Name: Clouds Chevron et. al.

Collection Date: 4/2/2014 3:25:00 PM

Lab ID: 1404588-047 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	BRL		0.39	1.0	ug/L	189490	1	04/10/2014 15:06	SB
Ethylbenzene	BRL		0.40	1.0	ug/L	189490	1	04/10/2014 15:06	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189490	1	04/10/2014 15:06	SB
Naphthalene	BRL		0.20	5.0	ug/L	189490	1	04/10/2014 15:06	SB
Toluene	BRL		0.38	1.0	ug/L	189490	1	04/10/2014 15:06	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189490	1	04/10/2014 15:06	SB
Surr: 4-Bromofluorobenzene	93.8		0	66.2-120	%REC	189490	1	04/10/2014 15:06	SB
Surr: Dibromofluoromethane	102		0	79.5-121	%REC	189490	1	04/10/2014 15:06	SB
Surr: Toluene-d8	98.2		0	<b>77-</b> 11 <b>7</b>	%REC	189490	1	04/10/2014 15:06	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5030	)B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189490	1	04/10/2014 15:06	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189490	1	04/10/2014 15:06	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189490	1	04/10/2014 15:06	SB

Qualifiers:

Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Date:

16-Apr-14

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

Less than Result value
 Narr See case narrative

Client: Crawford Environmental Services Client Sample ID: MW-53

Project Name: Clouds Chevron et. al. Collection Date: 4/3/2014 8:51:00 AM

Lab ID: 1404588-048 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	BRL		0.39	1.0	ug/L	189490	1	04/10/2014 19:49	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	189490	i	04/10/2014 19:49	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189490	1	04/10/2014 19:49	NP
Naphthalene	4.1	J	0.20	5.0	ug/L	189490	i	04/10/2014 19:49	NP
Toluene	BRL		0.38	1.0	ug/L	189490	1	04/10/2014 19:49	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	189490	1	04/10/2014 19:49	NP
Surr: 4-Bromofluorobenzene	86.2		0	66.2-120	%REC	189490	1	04/10/2014 19:49	NP
Surr: Dibromofluoromethane	97		0	79.5-121	%REC	189490	1	04/10/2014 19:49	NP
Surr: Toluene-d8	88.3		0	<b>77-</b> 11 <b>7</b>	%REC	189490	1	04/10/2014 19:49	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189490	1	04/10/2014 15:34	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189490	1	04/10/2014 15:34	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189490	1	04/10/2014 15:34	SB

Qualifiers:

Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

Date:

16-Apr-14

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-54
Project Name: Clouds Chevron et. al. Collection Date: 4/1/2014 3:45:00 PM

Lab ID: 1404588-049 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	BRL		0.39	1.0	ug/L	189490	1	04/10/2014 16:02	SB
Ethylbenzene	BRL		0.40	1.0	ug/L	189490	1	04/10/2014 16:02	SB
Methyl tert-butyl ether	9.6		0.42	1.0	ug/L	189490	1	04/10/2014 16:02	SB
Naphthalene	BRL		0.20	5.0	ug/L	189490	1	04/10/2014 16:02	SB
Toluene	BRL		0.38	1.0	ug/L	189490	1	04/10/2014 16:02	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189490	1	04/10/2014 16:02	SB
Surr: 4-Bromofluorobenzene	90.6		0	66.2-120	%REC	189490	1	04/10/2014 16:02	SB
Surr: Dibromofluoromethane	.105		0	79.5-121	%REC	189490	1	04/10/2014 16:02	SB
Surr: Toluene-d8	97.8		0	77-117	%REC	189490	1	04/10/2014 16:02	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0 <b>B</b> )			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189490	1	04/10/2014 16:02	SB
tert-Amyl methyl ether	6.7	J	1.0	10	ug/L	189490	1	04/10/2014 16:02	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189490	1	04/10/2014 16:02	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Date:

16-Apr-14

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-55

Project Name: Clouds Chevron et. al. Collection Date: 4/3/2014 10:19:00 AM

Lab ID: 1404588-050 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analys
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	<b>OB</b> )			
Benzene	10		0.39	1.0	ug/L	189490	1	04/10/2014 21:42	SB
Ethylbenzene	3.5		0.40	1.0	ug/L	189490	1	04/10/2014 21:42	SB
Methyl tert-butyl ether	24		0.42	1.0	ug/L	189490	1	04/10/2014 21:42	SB
Naphthalene	3.9	J	0.20	5.0	ug/L	189490	1	04/10/2014 21:42	SB
Toluene	BRL		0.38	1.0	ug/L	189490	1	04/10/2014 21:42	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189490	1	04/10/2014 21:42	SB
Surr: 4-Bromofluorobenzene	93.4		0	66.2-120	%REC	189490	1	04/10/2014 21:42	SB
Surr: Dibromofluoromethane	99.2		0	79.5-121	%REC	189490	1	04/10/2014 21:42	SB
Surr: Toluene-d8	98		0	77-117	%REC	189490	1	04/10/2014 21:42	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5030	)B)			
tert-Amyl alcohol	98	J	9.5	100	ug/L	189490	1	04/10/2014 21:42	SB
tert-Amyl methyl ether	6.4	J	1.0	10	ug/L	189490	1	04/10/2014 21:42	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189490	1	04/10/2014 21:42	SB

Qualifiers:

Value exceeds maximum contammant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Date:

16-Apr-14

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-56

Project Name: Clouds Chevron et. al. Collection Date: 4/3/2014 9:41:00 AM 1404588-051 Lab ID: Matrix: Groundwater

Date:

16-Apr-14

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	BRL		0.39	1.0	ug/L	189490	1	04/10/2014 22:10	SB
Ethylbenzene	BRL		0.40	1.0	ug/L	189490	1	04/10/2014 22:10	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189490	1	04/10/2014 22:10	SB
Naphthalene	BRL		0.20	5.0	ug/L	189490	1	04/10/2014 22:10	SB
Toluene	BRL		0.38	1.0	ug/L	189490	1	04/10/2014 22:10	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189490	1	04/10/2014 22:10	SB
Surr: 4-Bromofluorobenzene	92.6		0	66.2-120	%REC	189490	1	04/10/2014 22:10	SB
Surr: Dibromofluoromethane	102		0	79.5-121	%REC	189490	1	04/10/2014 22:10	SB
Surr: Toluene-d8	97.9		0	<b>77-</b> 117	%REC	189490	1	04/10/2014 22:10	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0B)			
tert-Amyl alcohol	50	J	9.5	100	ug/L	189490	1	04/10/2014 22:10	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189490	1	04/10/2014 22:10	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189490	1	04/10/2014 22:10	SB

Qualifiers:

Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client:Crawford Environmental ServicesClient Sample ID:MW-59Project Name:Clouds Chevron et. al.Collection Date:4/2/2014

Project Name:Clouds Chevron et. al.Collection Date:4/2/2014 3:55:00 PMLab ID:1404588-053Matrix:Groundwater

					0.0				
Analyses .	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	(SW503	0B)			
Benzene	28		0.39	1.0	ug/L	189490	1	04/09/2014 17:33	NP
Ethylbenzene	300		4.0	10	ug/L	189490	10	04/10/2014 13:08	NP
Methyl tert-butyl ether	130		0.42	1.0	ug/L	189490	1	04/09/2014 17:33	NP
Naphthalene	45		0.20	5.0	ug/L	189490	1	04/09/2014 17:33	NP
Toluene	2.8		0.38	1.0	ug/L	189490	1	04/09/2014 17:33	NP
Xylenes, Total	6.4		0.83	1.0	ug/L	189490	1	04/09/2014 17:33	NP
Surr: 4-Bromofluorobenzene	88		0	66.2-120	%REC	189490	10	04/10/2014 13:08	NP
Surr: 4-Bromofluorobenzene	93.7		0	66.2-120	%REC	189490	1	04/09/2014 17:33	NP
Surr: Dibromofluoromethane	93.6		0	79.5-121	%REC	189490	10	04/10/2014 13:08	NP
Surr: Dibromofluoromethane	96.8		0	79.5-121	%REC	189490	1	04/09/2014 17:33	NP
Surr: Toluene-d8	89		0	77-117	%REC	189490	10	04/10/2014 13:08	NP
Surr: Toluene-d8	95.4		0	77-117	%REC	189490	1	04/09/2014 17:33	NP
Oxygenates (AES SOP OA-11010) SW82	260B			(	(SW503	0B)			
tert-Amyl alcohol	2600		95	1000	ug/L	189490	10	04/10/2014 13:08	NP
tert-Amyl methyl ether	42		1.0	10	ug/L	189490	1	04/09/2014 17:33	NP
tert-Butyl Alcohol	160		6.8	100	ug/L	189490	1	04/09/2014 17:33	NP

Qualifiers:

Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

Date:

16-Apr-14

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-62

Project Name:Clouds Chevron et. al.Collection Date:4/1/2014 1:38:00 PMLab ID:1404588-055Matrix:Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analysi
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	0.86	J	0.39	1.0	ug/L	189490	1	04/10/2014 22:39	SB
Ethylbenzene	BRL		0.40	1.0	ug/L	189490	1	04/10/2014 22:39	SB
Methyl tert-butyl ether	3.0		0.42	1.0	ug/L	189490	1	04/10/2014 22:39	SB
Naphthalene	3.3	J	0.20	5.0	ug/L	189490	1	04/10/2014 22:39	SB
Toluene	BRL		0.38	1.0	ug/L	189490	1	04/10/2014 22:39	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189490	1	04/10/2014 22:39	SB
Surr: 4-Bromofluorobenzene	93.4		0	66.2-120	%REC	189490	1	04/10/2014 22:39	SB
Surr: Dibromofluoromethane	102		0	79.5-121	%REC	189490	1	04/10/2014 22:39	SB
Surr: Toluene-d8	98.5		0	<b>77-117</b>	%REC	189490	1	04/10/2014 22:39	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	OB)			
tert-Amyl alcohol	260		9.5	100	ug/L	189490	1	04/10/2014 22:39	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189490	1	04/10/2014 22:39	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189490	1	04/10/2014 22:39	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Date:

16-Apr-14

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-63
Project Name: Clouds Chevron et. al. Collection Date: 4/2/2014 1:27:00 PM
Lab ID: 1404588-056 Matrix: Groundwater

Date:

16-Apr-14

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	BRL		0.39	1.0	ug/L	189490	1	04/10/2014 23:07	SB
Ethylbenzene	BRL		0.40	1.0	ug/L	189490	1	04/10/2014 23:07	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189490	I	04/10/2014 23:07	SB
Naphthalene	BRL		0.20	5.0	ug/L	189490	1	04/10/2014 23:07	SB
Toluene	BRL		0.38	1.0	ug/L	189490	1	04/10/2014 23:07	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189490	1	04/10/2014 23:07	SB
Surr: 4-Bromofluorobenzene	93.6		0	66.2-120	%REC	189490	1	04/10/2014 23:07	SB
Surr: Dibromofluoromethane	99		0	79.5-121	%REC	189490	1	04/10/2014 23:07	SB
Surr: Toluene-d8	97.4		0	77-117	%REC	189490	1	04/10/2014 23:07	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0 <b>B</b> )			
tert-Amyl alcohol	120		9.5	100	ug/L	189490	1	04/10/2014 23:07	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189490	1	04/10/2014 23:07	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189490	1	04/10/2014 23:07	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-67

Project Name:Clouds Chevron et. al.Collection Date:4/1/2014 12:42:00 PMLab ID:1404588-058Matrix:Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		1	(SW503	0B)			
Benzene	BRL		0.39	1.0	ug/L	189490	1	04/10/2014 23:35	SB
Ethylbenzene	BRL		0.40	1.0	ug/L	189490	1	04/10/2014 23:35	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189490	1	04/10/2014 23:35	SB
Naphthalene	BRL		0.20	5.0	ug/L	189490	1	04/10/2014 23:35	SB
Toluene	BRL		0.38	1.0	ug/L	189490	1	04/10/2014 23:35	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189490	1	04/10/2014 23:35	SB
Surr: 4-Bromofluorobenzene	91.5		0	66.2-120	%REC	189490	1	04/10/2014 23:35	SB
Surr: Dibromofluoromethane	100		0	79.5-121	%REC	189490	1	04/10/2014 23:35	SB
Surr: Toluene-d8	97.8		0	77-117	%REC	189490	1	04/10/2014 23:35	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	OB)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189490	i	04/10/2014 23:35	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189490	1	04/10/2014 23:35	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189490	1	04/10/2014 23:35	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

Date:

16-Apr-14

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services

Project Name: Clouds Chevron et. al.

Lab ID: 1404588-059 Date:

16-Apr-14

Client Sample ID:

**Collection Date:** 

MW-70

Matrix:

4/2/2014 1:01:00 PM Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0 <b>B</b> )			
Benzene	BRL		0.39	1.0	ug/L	189490	1	04/11/2014 00:03	SB
Ethylbenzene	BRL		0.40	1.0	ug/L	189490	1	04/11/2014 00:03	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189490	1	04/11/2014 00:03	SB
Naphthalene	BRL		0.20	5.0	ug/L	189490	1	04/11/2014 00:03	SB
Toluene	BRL		0.38	1.0	ug/L	189490	1	04/11/2014 00:03	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189490	1	04/11/2014 00:03	SB
Surr: 4-Bromofluorobenzene	92.7		0	66.2-120	%REC	189490	i	04/11/2014 00:03	SB
Surr: Dibromofluoromethane	104		0	79.5-121	%REC	189490	1	04/11/2014 00:03	SB
Surr: Toluene-d8	98.8		0	<b>77</b> -117	%REC	189490	1	04/11/2014 00:03	SB

Oxygenates (AES SOP OA-11010)	SW8260B			(SW503	0B)			
tert-Amyl alcohol	BRL	9.5	100	ug/L	189490	1	04/11/2014 00:03	SB
tert-Amyl methyl ether	BRL	1.0	10	ug/L	189490	1	04/11/2014 00:03	SB
tert-Butyl Alcohol	BRL	6.8	100	ug/L	189490	1	04/11/2014 00:03	SB

Qualifiers:

Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Spike Recovery outside limits due to matrix

Estimated value detected below Reporting Limit

Greater than Result value

Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW-5ar
Project Name: Clouds Chevron et. al. Collection Date: 4/1/2014 9:30:00 AM

BRL

Lab ID: 1404588-060 Matrix: Groundwater

Reporting Qual MDL Units BatchID DF Date Analyzed Analyst Result Analyses Limit (SW5030B) Volatile Organic Compounds by GC/MS SW8260B 12000 ug/L 190 500 189490 500 04/11/2014 13:55 NP 189490 2400 20 50 ug/L 04/11/2014 02:02 NP Ethylbenzene 50 Methyl tert-butyl ether 70 21 50 ug/L 189490 50 04/11/2014 02:02 NP ug/L 1000 10 Naphthalene 250 189490 50 04/11/2014 02:02 NP 13000 190 500 ug/L 189490 500 04/11/2014 13:55 NP Toluene ug/L 13000 41 50 Xylenes, Total 189490 04/11/2014 02:02 NP 50 88.1 0 66.2-120 %REC 189490 Surr: 4-Bromofluorobenzene 500 04/11/2014 13:55 NP 0 %REC Surr: 4-Bromofluorobenzene 88.2 66.2-120 189490 50 04/11/2014 02:02 NP 0 79.5-121 %REC Surr: Dibromofluoromethane 93.4 189490 500 04/11/2014 13:55 NP 0 79.5-121 %REC Surr: Dibromofluoromethane 93.6 189490 50 04/11/2014 02:02 NP 0 %REC Surr: Toluene-d8 87.1 77-117 189490 500 04/11/2014 13:55 NP 0 %REC Surr: Toluene-d8 89.7 77-117 189490 50 04/11/2014 02:02 NP Oxygenates (AES SOP OA-11010) SW8260B (SW5030B) BRL tert-Amyl alcohol 480 5000 ug/L 189490 04/11/2014 02:02 NP 50 tert-Amyl methyl ether 160 J 50 500 ug/L 189490 50 04/11/2014 02:02 NP

340

5000

ug/L

189490

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Date:

16-Apr-14

04/11/2014 02:02

NP

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

Less than Result value
 Narr See case narrative

tert-Butyl Alcohol

Client: Crawford Environmental Services

Project Name: Clouds Chevron et. al.

Lab ID:

1404588-061

Date:

16-Apr-14

Client Sample ID: PW-1R

Collection Date:

4/3/2014 1:35:00 PM

Matrix:

Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analysi
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	460		19	50	ug/L	189490	50	04/11/2014 02:27	NP
Ethylbenzene	320		20	50	ug/L	189490	50	04/11/2014 02:27	NP
Methyl tert-butyl ether	BRL		21	50	ug/L	189490	50	04/11/2014 02:27	NP
Naphthalene	510		10	250	ug/L	189490	50	04/11/2014 02:27	NP
Toluene	3400		19	50	ug/L	189490	50	04/11/2014 02:27	NP
Xylenes, Total	9200		41	50	ug/L	189490	50	04/11/2014 02:27	NP
Surr: 4-Bromofluorobenzene	86.6		0	66.2-120	%REC	189490	50	04/11/2014 02:27	NP
Surr: Dibromofluoromethane	94.4		0	79.5-121	%REC	189490	50	04/11/2014 02:27	NP
Surr: Toluene-d8	88.4		0	<b>77-</b> 117	%REC	189490	50	04/11/2014 02:27	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5030	)B)			
tert-Amyl alcohol	710	J	480	5000	ug/L	189490	50	04/11/2014 02:27	NP
tert-Amyl methyl ether	BRL		50	500	ug/L	189490	50	04/11/2014 02:27	NP
tert-Butyl Alcohol	BRL		340	5000	ug/L	189490	50	04/11/2014 02:27	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: DW-1
Project Name: Clouds Chevron et. al. Collection Date: 4/2/2014 2:20:00 PM

Lab ID: 1404588-062 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5036	0B)			
Benzene	0.45	J	0.39	1.0	ug/L	189490	1	04/11/2014 00:31	SB
Ethylbenzene	1.7		0.40	1.0	ug/L	189490	1	04/11/2014 00:31	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189490	1	04/11/2014 00:31	SB
Naphthalene	BRL		0.20	5.0	ug/L	189490	1	04/11/2014 00:31	SB
Toluene	1.2		0.38	1.0	ug/L	189490	1	04/11/2014 00:31	SB
Xylenes, Total	7.2		0.83	1.0	ug/L	189490	1	04/11/2014 00:31	SB
Surr: 4-Bromofluorobenzene	96.1		0	66.2-120	%REC	189490	1	04/11/2014 00:31	SB
Surr: Dibromofluoromethane	102		0	79.5-121	%REC	189490	1	04/11/2014 00:31	SB
Surr: Toluene-d8	95.1		0	<b>77-</b> 11 <b>7</b>	%REC	189490	1	04/11/2014 00:31	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5030	<b>OB</b> )			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189490	1	04/11/2014 00:31	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189490	1	04/11/2014 00:31	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189490	1	04/11/2014 00:31	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Date:

16-Apr-14

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services

Project Name: Clouds Chevron et. al.

**Lab ID:** 1404588-063

. .

Date:

16-Apr-14

Client Sample ID: DW-2

Collection Date:

4/2/2014 3:01:00 PM

Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	BRL		0.39	1.0	ug/L	189490	1	04/11/2014 16:50	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	189490	1	04/11/2014 16:50	NP
Methyl tert-butyl ether	7.1		0.42	1.0	ug/L	189490	1	04/11/2014 16:50	NP
Naphthalene	4.1	J	0.20	5.0	ug/L	189490	1	04/11/2014 16:50	NP
Toluene	BRL		0.38	1.0	ug/L	189490	1	04/11/2014 16:50	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	189490	1	04/11/2014 16:50	NP
Surr: 4-Bromofluorobenzene	83.6		0	66.2-120	%REC	189490	1	04/11/2014 16:50	NP
Surr: Dibromofluoromethane	100		0	79.5-121	%REC	189490	1	04/11/2014 16:50	NP
Surr: Toluene-d8	93		0	77-117	%REC	189490	1	04/11/2014 16:50	NP
Oxygenates (AES SOP OA-11010) SW82	260B			(	SW503	0 <b>B</b> )			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189490	1	04/11/2014 00:59	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189490	1	04/11/2014 00:59	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189490	1	04/11/2014 00:59	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: DW-3

Project Name: Clouds Chevron et. al.

Collection Date: 4/3/2014 4:01:00 PM
Lab ID: 1404588-064

Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	9800		190	500	ug/L	189490	500	04/11/2014 16:00	NP
Ethylbenzene	3700		20	50	ug/L	189490	50	04/11/2014 19:27	NP
Methyl tert-butyl ether	990		21	50	ug/L	189490	50	04/11/2014 19:27	NP
Naphthalene	780		10	250	ug/L	189490	50	04/11/2014 19:27	NP
Toluene	22000		190	500	ug/L	189490	500	04/11/2014 16:00	NP
Xylenes, Total	17000		41	50	ug/L	189490	50	04/11/2014 19:27	NP
Surr: 4-Bromofluorobenzene	84.6		0	66.2-120	%REC	189490	500	04/11/2014 16:00	NP
Surr: 4-Bromofluorobenzene	88		0	66.2-120	%REC	189490	50	04/11/2014 19:27	NP
Surr: Dibromofluoromethane	95.7		0	79.5-121	%REC	189490	50	04/11/2014 19:27	NP
Surr: Dibromofluoromethane	97.6		0	79.5-121	%REC	189490	500	04/11/2014 16:00	NP
Surr: Toluene-d8	87.7		0	77-117	%REC	189490	500	04/11/2014 16:00	NP
Surr: Toluene-d8	88.5		0	77-117	%REC	189490	50	04/11/2014 19:27	NP
Oxygenates (AES SOP OA-11010) SW82	260B			(	SW503	0B)			
tert-Amyl alcohol	10000		480	5000	ug/L	189490	50	04/11/2014 19:27	NP
tert-Amyl methyl ether	190	J	50	500	ug/L	189490	50	04/11/2014 19:27	NP
tert-Butyl Alcohol	BRL		340	5000	ug/L	189490	50	04/11/2014 19:27	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Date:

16-Apr-14

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

Less than Result value
 Narr See case narrative

Client: Crawford Environmental Services Client Sample ID: DW-4
Project Name: Clouds Chevron et. al. Collection Date: 4/3/2014 2:09:00 PM
Lab ID: 1404588-065 Matrix: Groundwater

16-Apr-14

Date:

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	<b>OB</b> )			
Benzene	BRL		0.39	1.0	ug/L	189490	1	04/11/2014 11:27	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	189490	i	04/11/2014 11:27	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189490	1	04/11/2014 11:27	NP
Naphthalene	BRL		0.20	5.0	ug/L	189490	1	04/11/2014 11:27	NP
Toluene	BRL		0.38	1.0	ug/L	189490	1	04/11/2014 11:27	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	189490	1	04/11/2014 11:27	NP
Surr: 4-Bromofluorobenzene	82.8		0	66.2-120	%REC	189490	1	04/11/2014 11:27	NP
Surr: Dibromofluoromethane	107		0	79.5-121	%REC	189490	1	04/11/2014 11:27	NP
Surr: Toluene-d8	91.7		0	<b>77</b> -117	%REC	189490	1	04/11/2014 11:27	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	)B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189490	1	04/11/2014 11:27	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189490	1	04/11/2014 11:27	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189490	1	04/11/2014 11:27	NP

Qualifiers:

Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID:

DW-5 Project Name: Clouds Chevron et. al. Collection Date: 4/1/2014 11:00:00 AM

Lab ID: 1404588-066 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	3300		19	50	ug/L	189491	50	04/09/2014 17:08	NP
Ethylbenzene	37		0.40	1.0	ug/L	189491	1	04/09/2014 15:53	NP
Methyl tert-butyl ether	940		21	<b>5</b> 0	ug/L	189491	50	04/09/2014 17:08	NP
Naphthalene	<b>8</b> 1		0.20	5.0	ug/L	189491	1	04/09/2014 15:53	NP
Toluene	68		0.38	1.0	ug/L	189491	1	04/09/2014 15:53	NP
Xylenes, Total	1000		41	50	ug/L	189491	50	04/09/2014 17:08	NP
Surr: 4-Bromofluorobenzene	90.5		0	66.2-120	%REC	189491	50	04/09/2014 17:08	NP
Surr: 4-Bromofluorobenzene	93.3		0	66.2-120	%REC	189491	1	04/09/2014 15:53	NP
Surr: Dibromofluoromethane	99.9		0	79.5-121	%REC	189491	50	04/09/2014 17:08	NP
Surr: Dibromofluoromethane	96.4		0	79.5-121	%REC	189491	1	04/09/2014 15:53	NP
Surr: Toluene-d8	90.3		0	77-117	%REC	189491	50	04/09/2014 17:08	NP
Surr: Toluene-d8	94		0	77-117	%REC	189491	1	04/09/2014 15:53	NP
Oxygenates (AES SOP OA-11010) SW8	260B			(	SW503	0B)			
tert-Amyl alcohol	4300		95	1000	ug/L	189491	10	04/10/2014 14:23	NP
tert-Amyl methyl ether	83		1.0	10	ug/L	189491	1	04/09/2014 15:53	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189491	1	04/09/2014 15:53	NP
Surr: 4-Bromofluorobenzene	89.3		0	66.2-120	%REC	189491	10	04/10/2014 14:23	NP
Surr: Dibromofluoromethane	92.7		0	79.5-121	%REC	189491	10	04/10/2014 14:23	NP
Surr: Toluene-d8	90.3		0	77-117	%REC	189491	10	04/10/2014 14:23	NP

Qualifiers:

BRL Not detected at MDL

NC Not confirmed

Date:

16-Apr-14

^{*} Value exceeds maximum contaminant level

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

E Estimated value above quantitation range

Spike Recovery outside limits due to matrix

Estimated value detected below Reporting Limit

> Greater than Result value

Less than Result value

Client: Crawford Environmental Services Client Sample ID:

DW-6 Project Name: Clouds Chevron et. al. **Collection Date:** 4/1/2014 12:18:00 PM

Lab ID: 1404588-067 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	8.5		0.39	1.0	ug/L	189491	1	04/11/2014 01:28	SB
Ethylbenzene	1.6		0.40	1.0	ug/L	189491	1	04/11/2014 01:28	SB
Methyl tert-butyl ether	3.0		0.42	1.0	ug/L	189491	1	04/11/2014 01:28	SB
Naphthalene	BRL		0.20	5.0	ug/L	189491	1	04/11/2014 01:28	SB
Toluene	1.2		0.38	1.0	ug/L	189491	1	04/11/2014 01:28	SB
Xylenes, Total	7.2		0.83	1.0	ug/L	189491	1	04/11/2014 01:28	SB
Surr: 4-Bromofluorobenzene	92.2		0	66.2-120	%REC	189491	1	04/11/2014 01:28	SB
Surr: Dibromofluoromethane	102		0	79.5-121	%REC	189491	1	04/11/2014 01:28	SB
Surr: Toluene-d8	96.4		0	77-117	%REC	189491	1	04/11/2014 01:28	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189491	1	04/11/2014 01:28	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189491	1	04/11/2014 01:28	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189491	1	04/11/2014 01:28	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

Date:

16-Apr-14

Greater than Result value

Less than Result value Narr See case narrative

Client: Crawford Environmental Services Client Sample ID: DW-7

Project Name:Clouds Chevron et. al.Collection Date:4/3/2014 3:17:00 PMLab ID:1404588-068Matrix:Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	0.52	J	0.39	1.0	ug/L	189491	1	04/11/2014 11:02	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	189491	1	04/11/2014 11:02	NP
Methyl tert-butyl ether	2.6		0.42	1.0	ug/L	1 <b>89</b> 491	1	04/11/2014 11:02	NP
Naphthalene	4.2	J	0.20	5.0	ug/L	189491	1	04/11/2014 11:02	NP
Toluene	0.46	J	0.38	1.0	ug/L	189491	1	04/11/2014 11:02	NP
Xylenes, Total	1.4		0.83	1.0	ug/L	189491	1	04/11/2014 11:02	NP
Surr: 4-Bromofluorobenzene	83.4		0	66.2-120	%REC	189491	1	04/11/2014 11:02	NP
Surr: Dibromofluoromethane	104		0	79.5-121	%REC	189491	1	04/11/2014 11:02	NP
Surr: Toluene-d8	90		0	77-117	%REC	189491	1	04/11/2014 11:02	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0B)			
tert-Amyl alcohoi	BRL		9.5	100	ug/L	189491	1	04/11/2014 11:02	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189491	1	04/11/2014 11:02	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189491	1	04/11/2014 11:02	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Date:

16-Apr-14

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: DW-9

Project Name: Clouds Chevron et. al.

Lab ID: 1404588-069

Collection Date: 4/2/2014 10:55:00 AM
Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	BRL		0.39	1.0	ug/L	189491	1	04/11/2014 02:24	SB
Ethylbenzene	BRL		0.40	1.0	ug/L	189491	1	04/11/2014 02:24	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189491	1	04/11/2014 02:24	SB
Naphthalene	BRL		0.20	5.0	ug/L	189491	1	04/11/2014 02:24	SB
Toluene	BRL		0.38	1.0	ug/L	189491	1	04/11/2014 02:24	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189491	1	04/11/2014 02:24	SB
Surr: 4-Bromofluorobenzene	93.8		0	66.2-120	%REC	189491	1	04/11/2014 02:24	SB
Surr: Dibromofluoromethane	102		0	79.5-121	%REC	189491	1	04/11/2014 02:24	SB
Surr: Toluene-d8	97.1		0	77-117	%REC	189491	1	04/11/2014 02:24	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189491	1	04/11/2014 02:24	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189491	1	04/11/2014 02:24	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189491	1	04/11/2014 02:24	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

16-Apr-14

Date:

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: SW-1

Project Name:Clouds Chevron et. al.Collection Date:4/2/2014 11:58:00 AMLab ID:1404588-070Matrix:Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analys
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5036	0 <b>B</b> )			
Benzene	180		0.39	1.0	ug/L	189491	1	04/11/2014 02:52	SB
Ethylbenzene	30		0.40	1.0	ug/L	189491	1	04/11/2014 02:52	SB
Methyl tert-butyl ether	42		0.42	1.0	ug/L	189491	1	04/11/2014 02:52	SB
Naphthalene	6.5		0.20	5.0	ug/L	189491	1	04/11/2014 02:52	SB
Toluene	8.4		0.38	1.0	ug/L	189491	1	04/11/2014 02:52	SB
Xylenes, Total	53		0.83	1.0	ug/L	189491	1	04/11/2014 02:52	SB
Surr: 4-Bromofluorobenzene	98		0	66.2-120	%REC	189491	1	04/11/2014 02:52	SB
Surr: Dibromofluoromethane	97.9		0	79.5-121	%REC	189491	1	04/11/2014 02:52	SB
Surr: Toluene-d8	96.1		0	77-117	%REC	189491	1	04/11/2014 02:52	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5030	OB)			
tert-Amyl alcohol	350		9.5	100	ug/L	189491	1	04/11/2014 02:52	SB
tert-Amyl methyl ether	9.5	J	1.0	10	ug/L	189491	1	04/11/2014 02:52	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189491	1	04/11/2014 02:52	SB

Qualifiers:

Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Date:

16-Apr-14

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client:Crawford Environmental ServicesClient Sample ID:TRIP BLANK 1Project Name:Clouds Chevron et. al.Collection Date:4/4/2014

Project Name:Clouds Chevron et. al.Collection Date:4/4/2014Lab ID:1404588-071Matrix:Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	OB)			
Benzene	BRL		0.39	1.0	ug/L	189491	1	04/10/2014 20:46	SB
Ethylbenzene	BRL		0.40	1.0	ug/L	189491	1	04/10/2014 20:46	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189491	1	04/10/2014 20:46	SB
Naphthalene	BRL		0.20	5.0	ug/L	189491	1	04/10/2014 20:46	SB
Toluene	BRL		0.38	1.0	ug/L	189491	1	04/10/2014 20:46	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189491	1	04/10/2014 20:46	SB
Surr: 4-Bromofluorobenzene	94.4		0	66.2-120	%REC	189491	1	04/10/2014 20:46	SB
Surr: Dibromofluoromethane	99.3		0	79.5-121	%REC	189491	1	04/10/2014 20:46	SB
Surr: Toluene-d8	96.7		0	77-117	%REC	189491	1	04/10/2014 20:46	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189491	1	04/10/2014 20:46	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189491	1	04/10/2014 20:46	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189491	1	04/10/2014 20:46	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Date:

16-Apr-14

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client:Crawford Environmental ServicesClient Sample ID:TRIP BLANK 2Project Name:Clouds Chevron et. al.Collection Date:4/4/2014

Project Name:Clouds Chevron et. al.Collection Date:4/4/2014Lab ID:1404588-072Matrix:Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	SW8260B (SW5030B)							
Benzene	BRL		0.39	1.0	ug/L 189491		1	04/10/2014 21:14	SB
Ethylbenzene	BRL		0.40	1.0	ug/L	189491	1	04/10/2014 21:14	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189491	1	04/10/2014 21:14	SB
Naphthalene	BRL		0.20	5.0	ug/L	189491	1	04/10/2014 21:14	SB
Toluene	BRL		0.38	1.0	ug/L	189491	1	04/10/2014 21:14	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189491	1	04/10/2014 21:14	SB
Surr: 4-Bromofluorobenzene	94.3		0	66.2-120	%REC	189491	1	04/10/2014 21:14	SB
Surr: Dibromofluoromethane	99.3		0	79.5-121	%REC	189491	1	04/10/2014 21:14	SB
Surr: Toluene-d8	96.2	-	0	77-117	%REC	189491	1	04/10/2014 21:14	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189491	1	04/10/2014 21:14	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189491	1	04/10/2014 21:14	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189491	1	04/10/2014 21:14	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Date:

16-Apr-14

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: FB 1

Project Name: Clouds Chevron et. al.

Lab ID: 1404588-073 Collection Date: 4/3/2014 10:01:00 AM Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analysi
Volotile Organic Compounds by CC/MS	SW8260	D			SW503	n <b>B</b> )			
Volatile Organic Compounds by GC/MS	3 W 0200	D		,	S 44 2021	ופט			
Benzene	BRL		0.39	1.0	ug/L	189491	1	04/10/2014 19:21	SB
Ethylbenzene	BRL		0.40	1.0	ug/L	189491	1	04/10/2014 19:21	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189491	1	04/10/2014 19:21	SB
Naphthalene	BRL		0.20	5.0	ug/L	1 <b>894</b> 91	1	04/10/2014 19:21	SB
Toluene	BRL		0.38	1.0	ug/L	189491	1	04/10/2014 19:21	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189491	1	04/10/2014 19:21	SB
Surr: 4-Bromofluorobenzene	93.7		0	66.2-120	%REC	189491	1	04/10/2014 19:21	SB
Surr: Dibromofluoromethane	101		0	79.5-121	%REC	189491	1	04/10/2014 19:21	SB
Surr: Toluene-d8	96.3		0	77-117	%REC	189491	1	04/10/2014 19:21	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189491	1	04/10/2014 19:21	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189491	1	04/10/2014 19:21	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189491	1	04/10/2014 19:21	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

16-Apr-14

Date:

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: FB 2
Project Name: Clouds Chevron et. al. Collection Date: 4/2/2014 2:14:00 PM

Lab ID: 1404588-074 Matrix: Groundwater

DID: 1404588-074 Matrix: Groundwate

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analys
Volatile Organic Compounds by GC/MS	SW82601	В		(SW5030B)					
Benzene	BRL		0.39	1.0	ug/L	189491	1	04/10/2014 19:49	SB
Ethylbenzene	BRL		0.40	1.0	ug/L	189491	1	04/10/2014 19:49	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189491	1	04/10/2014 19:49	SB
Naphthalene	BRL		0.20	5.0	ug/L	189491	1	04/10/2014 19:49	SB
Toluene	BRL		0.38	1.0	ug/L	189491	1	04/10/2014 19:49	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189491	1	04/10/2014 19:49	SB
Surr: 4-Bromofluorobenzene	96.6		0	66.2-120	%REC	189491	1	04/10/2014 19:49	SB
Surr: Dibromofluoromethane	105		0	79.5-121	%REC	189491	1	04/10/2014 19:49	SB
Surr: Toluene-d8	99.1		0	77-117	%REC	189491	1	04/10/2014 19:49	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5030	OB)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189491	1	04/10/2014 19:49	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189491	1	04/10/2014 19:49	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189491	1	04/10/2014 19:49	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

Date:

16-Apr-14

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: FB 3

Project Name: Clouds Chevron et. al.

Lab ID: Collection Date: 4/1/2014 11:49:00 AM

Matrix: Groundwater

Date:

16-Apr-14

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В							
Benzene	BRL		0.39	1.0	ug/L	189491	1	04/10/2014 20:17	SB
Ethylbenzene	BRL		0.40	1.0	ug/L	189491	1	04/10/2014 20:17	SB
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	189491	1	04/10/2014 20:17	SB
Naphthalene	BRL		0.20	5.0	ug/L	189491	1	04/10/2014 20:17	SB
Toluene	BRL		0.38	1.0	ug/L	189491	1	04/10/2014 20:17	SB
Xylenes, Total	BRL		0.83	1.0	ug/L	189491	1	04/10/2014 20:17	SB
Surr: 4-Bromofluorobenzene	90.9		0	66. <b>2-</b> 120	%REC	189491	1	04/10/2014 20:17	SB
Surr: Dibromofluoromethane	99.4		0	79.5-121	%REC	189491	1	04/10/2014 20:17	SB
Surr: Toluene-d8	98.6		0	77-117	%REC	189491	1	04/10/2014 20:17	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5030	0 <b>B</b> )			
tert-Amyl alcohol	BRL		9.5	100	ug/L	189491	1	04/10/2014 20:17	SB
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189491	1	04/10/2014 20:17	SB
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189491	1	04/10/2014 20:17	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services

Project Name: Clouds Chevron et. al.

Lab ID: 1404588-076

Date:

16-Apr-14

Client Sample ID: DUP A

**Collection Date:** 

4/2/2014 10:15:00 AM

Matrix:

Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analys
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	8300		19	50	ug/L	189491	50	04/11/2014 03:41	NP
Ethylbenzene	1500		20	50	ug/L	189491	50	04/11/2014 03:41	NP
Methyl tert-butyl ether	2200		21	50	ug/L	189491	50	04/11/2014 03:41	NP
Naphthalene	650		10	250	ug/L	189491	50	04/11/2014 03:41	NP
Toluene	18000		190	500	ug/L	189491	500	04/11/2014 14:21	NP
Xylenes, Total	20000		41	50	ug/L	189491	50	04/11/2014 03:41	NP
Surr: 4-Bromofluorobenzene	87.3		0	66.2-120	%REC	189491	500	04/11/2014 14:21	NP
Surr: 4-Bromofluorobenzene	90.5		0	66.2-120	%REC	189491	50	04/11/2014 03:41	NP
Surr: Dibromofluoromethane	93.4		0	79.5-121	%REC	189491	500	04/11/2014 14:21	NP
Surr: Dibromofluoromethane	95.8		0	79.5-121	%REC	189491	50	04/11/2014 03:41	NP
Surr: Toluene-d8	86.1		0	<b>77</b> -117	%REC	189491	500	04/11/2014 14:21	NP
Surr: Toluene-d8	88.7		0	77-117	%REC	189491	50	04/11/2014 03:41	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5030	)B)			
tert-Amyl alcohol	860	J	480	5000	ug/L	189491	50	04/11/2014 03:41	NP
tert-Amyl methyl ether	660		50	500	ug/L	189491	50	04/11/2014 03:41	NP
tert-Butyl Alcohol	BRL		340	5000	ug/L	189491	50	04/11/2014 03:41	NP

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services Client Sample ID: DUP B

Project Name: Clouds Chevron et. al.

Collection Date: 4/2/2014 12:51:00 PM

Lab ID: 1404588-077 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analys
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503				
Benzene	150		0.39	1.0	ug/L	189491	1	04/11/2014 12:41	NP
Ethylbenzene	180		0.40	1.0	ug/L	189491	1	04/11/2014 12:41	NP
Methyl tert-butyl ether	510		4.2	10	ug/L	189491	10	04/11/2014 13:06	NP
Naphthalene	140		0.20	5.0	ug/L	189491	1	04/11/2014 12:41	NP
Toluene	39		0.38	1.0	ug/L	189491	1	04/11/2014 12:41	NP
Xylenes, Total	1500		8.3	10	ug/L	189491	10	04/11/2014 13:06	NP
Surr: 4-Bromofluorobenzene	86.1		0	66.2-120	%REC	189491	10	04/11/2014 13:06	NP
Surr: 4-Bromofluorobenzene	98.5		0	66.2-120	%REC	189491	1	04/11/2014 12:41	NP
Surr: Dibromofluoromethane	96.4		0	79.5-121	%REC	189491	1	04/11/2014 12:41	NP
Surr: Dibromofluoromethane	98.5		0	79.5-121	%REC	189491	10	04/11/2014 13:06	NP
Surr: Toluene-d8	89		0	<b>77</b> -11 <b>7</b>	%REC	189491	10	04/11/2014 13:06	NP
Surr: Toluene-d8	94		0	77-117	%REC	189491	1	04/11/2014 12:41	NP
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW5030	0B)			
tert-Amyl alcohol	200		9.5	100	ug/L	189491	1	04/11/2014 12:41	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	189491	1	04/11/2014 12:41	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	189491	1	04/11/2014 12:41	NP

Qualifiers:

Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Date:

16-Apr-14

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Client: Crawford Environmental Services

**Client Sample ID:** Project Name: Clouds Chevron et. al. **Collection Date:** 

1404588-078 Lab ID:

Date:

**DUP C** 

4/3/2014 1:20:00 PM

16-Apr-14

Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst		
Volatile Organic Compounds by GC/MS	SW8260	В	(SW5030B)								
Benzene	2300		19	50	ug/L	189491	50	04/11/2014 19:52	NP		
Ethylbenzene	580		20	50	ug/L	189491	50	04/11/2014 19:52	NP		
Methyl tert-butyl ether	60		21	50	ug/L	189491	50	04/11/2014 19:52	NP		
Naphthalene	1100		10	250	ug/L	189491	50	04/11/2014 19:52	NP		
Toluene	11000		190	500	ug/L	189491	500	04/11/2014 15:10	NP		
Xylenes, Total	14000		41	50	ug/L	189491	50	04/11/2014 19:52	NP		
Surr: 4-Bromofluorobenzene	87.4		0	66.2-120	%REC	189491	500	04/11/2014 15:10	NP		
Surr: 4-Bromofluorobenzene	88.9		0	66.2-120	%REC	189491	50	04/11/2014 19:52	NP		
Surr: Dibromofluoromethane	94.2		0	79.5-121	%REC	189491	50	04/11/2014 19:52	NP		
Surr: Dibromofluoromethane	94.3		0	79.5-121	%REC	189491	500	04/11/2014 15:10	NP		
Surr: Toluene-d8	86.7		0	77-117	%REC	189491	500	04/11/2014 15:10	NP		
Surr: Toluene-d8	90.1		0	77-117	%REC	189491	50	04/11/2014 19:52	NP		
Oxygenates (AES SOP OA-11010) SW82	260B			(	SW503	0B)					
tert-Amyl alcohol	3900	J	480	5000	ug/L	189491	50	04/11/2014 19:52	NP		
tert-Amyl methyl ether	80	J	50	500	ug/L	189491	50	04/11/2014 19:52	NP		
tert-Butyl Alcohol	BRL		340	5000	ug/L	189491	50	04/11/2014 19:52	NP		

Qualifiers:

BRL Not detected at MDL

Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

Estimated value detected below Reporting Limit

Greater than Result value

Less than Result value Narr See case narrative

Value exceeds maximum contaminant level

H Holding times for preparation or analysis exceeded

Client: Crawford Environmental Services Client Sample ID:

DUP D Project Name: Clouds Chevron et. al. 4/3/2014 1:40:00 PM Collection Date: Lab ID: 1404588-079 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(					
Benzene	420		19	50	ug/L	189491	50	04/11/2014 03:20	SB
Ethylbenzene	260		20	50	ug/L	189491	50	04/11/2014 03:20	SB
Methyl tert-butyl ether	BRL		21	50	ug/L	189491	50	04/11/2014 03:20	SB
Naphthalene	370		10	250	ug/L	189491	50	04/11/2014 03:20	SB
Toluene	3300		19	50	ug/L	189491	50	04/11/2014 03:20	SB
Xylenes, Total	6800		41	50	ug/L	189491	50	04/11/2014 03:20	SB
Surr: 4-Bromofluorobenzene	104		0	66.2-120	%REC	189491	50	04/11/2014 03:20	SB
Surr: Dibromofluoromethane	105		0	79.5-121	%REC	189491	50	04/11/2014 03:20	SB
Surr: Toluene-d8	98.1		0	77-117	%REC	189491	50	04/11/2014 03:20	SB
Oxygenates (AES SOP OA-11010) SW82	60B			(	SW503	0 <b>B</b> )			
tert-Amyl alcohol	5300		480	5000	ug/L	189491	50	04/11/2014 03:20	SB
tert-Amyl methyl ether	BRL		50	500	ug/L	<b>1894</b> 91	50	04/11/2014 03:20	SB
tert-Butyl Alcohol	BRL		340	5000	ug/L	189491	50	04/11/2014 03:20	SB

Qualifiers:

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

Spike Recovery outside limits due to matrix

Estimated value detected below Reporting Limit

Date:

16-Apr-14

> Greater than Result value

Less than Result value

## Sample/Cooler Receipt Checklist

Client Acus		Work Orde	r Number	1404508
Checklist completed by Signature Date	4/4/14			
Carrier name: FedEx UPS Courier Client US	S Mail Othe	r	_	
Shipping container/cooler in good condition?	Yes _	No	Not Present	_
Custody seals intact on shipping container/cooler?	Yes	No	Not Present	_
Custody seals intact on sample bottles?	Yes	No	Not Present	<u> </u>
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes _	No		
Cooler #1 3.5° Cooler #2 Cooler #3	_ Cooler #4 _	Coc	oler#5	Cooler #6
Chain of custody present?	Yes _	No		
Chain of custody signed when relinquished and received?	Yes _	No		
Chain of custody agrees with sample labels?	Yes _	No		
Samples in proper container/bottle?	Yes _	No		•
Sample containers intact?	Yes _	No		
Sufficient sample volume for indicated test?	Yes _	No		
All samples received within holding time?	Yes _	No _ /	•	•
Was TAT marked on the COC?	Yes _ /	No _		
Proceed with Standard TAT as per project history?	Yes _	No	Not Applica	able
Water - VOA vials have zero headspace? No VOA vials su	ibmitted	Yes _	No _	
Water - pH acceptable upon receipt?	Yes	No _	Not Applica	able
Adjusted?	Che	cked by		···
Sample Condition: Good Other(Explain)			/_	
(For diffusive samples or AIHA lead) Is a known blank include	led? Yes	_ ^	No _	

See Case Narrative for resolution of the Non-Conformance.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklists

^{*} Samples do not have to comply with the given range for certain parameters.

ANALYTICAL QC SUMMARY REPORT

Client:	Crawford	Environmental	Services

Project Name: Clouds Chevron et. al.

Workorder:

BatchID: 189485 1404588

WORKOTGET: 1404388				В	atchin: 1024	+00				
Sample ID: MB-189485 SampleType: MBLK	Client ID: TestCode:		unds by GC/MS	SW8260B	Un Bat	its: <b>ug/L</b> tchID: <b>189485</b>		p Date: alysis Date:	04/09/2014 04/09/2014	Run No: 265148 Seq No: 5585198
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val %RP	D RPD Limit Qual
Benzene	BRL	1.0								
Ethylbenzene	BRL	1.0								
Methyl tert-butyl ether	BRL	1.0								
Naphthalene	BRL	5.0								
Toluene	BRL	1.0								
Xylenes, Total	BRL	1.0								
Surr: 4-Bromofluorobenzene	44.91	0	50.00		89.8	70	130			
Surr: Dibromofluoromethane	50.91	0	50.00		102	70	130			
Surr: Toluene-d8	46.05	0	50.00		92.1	70	130			
Sample ID: MB-189485	Client ID:				Un	its: ug/L	Pre	p Date:	04/09/2014	Run No: 265148
SampleType: MBLK	TestCode:	Oxygenates (AES SOP C	OA-11010) SW82	260B	Bat	tchID: 189485	Ana	alysis Date:	04/09/2014	Seq No: 5585933
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val %RP	D RPD Limit Qual
tert-Amyl alcohol	BRL	100								
tert-Amyl methyl ether	BRL	10								
tert-Butyl Alcohol	BRL	100								
Sample ID: LCS-189485	Client ID:				Un	its: ug/L	Pre	p Date:	04/09/2014	Run No: 265148
SampleType: LCS	TestCode:	Volatile Organic Compo	unds by GC/MS	SW8260B	Bat	tchID: 189485	Ana	alysis Date:	04/09/2014	Seq No: 5585188
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val %RP	D RPD Limit Qual
Benzene	41.62	1.0	50.00		83.2	70	130			

Sample ID: LCS-189485 SampleType: LCS	Client ID: TestCode:							SW8260B	Uni Bat	its: <b>ug/L</b> chID: <b>189485</b>		Date: 04/09/ llysis Date: 04/09/		Run No: 265148 Seq No: 558518	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual				
Benzene	41.62	1.0	50.00		83.2	70	130								
Ethylbenzene	53.21	1.0	50.00		106	70	130								
Naphthalene	45.29	5.0	50.00		90.6	70	130								
Toluene	43.53	1.0	50.00		87.1	70	130								
Xylenes, Total	153.7	1.0	150.0		102	70	130								
Surr: 4-Bromofluorobenzene	48.92	0	50.00		97.8	70	130								

Qualifiers: Greater than Result value

BRL Below reporting limit

Estimated value detected below Reporting Limit

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix Rpt Lim Reporting Limit

- < Less than Result value B Analyte detected in the associated method blank
- E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
  - R RPD outside limits due to matrix

Page 83 of 94

Client:

Crawford Environmental Services

Project Name: Clouds Chevron et. al.

Workorder: 1404588

ANALYTICAL QC SUMMARY REPORT

BatchID: 189485

										_			
Sample ID: LCS-189485	Client ID:				Uni			p Date:	04/09/20		Run No:		
SampleType: LCS	TestCode:	Volatile Organic Compo	unds by GC/MS	SW8260B	Bat	chID: 189485	An	alysis Date:	04/09/20	)14	Seq No:	558518	38
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	f Vai	%RPD	RPD	Limit	Qua
Surr: Dibromofluoromethane	50.05	0	50.00		100	70	130						
Surr: Toluene-d8	48.35	0	50.00		96.7	70	130						
Sample ID: LCS-189485	Client ID:				Uni	its: ug/L	Pre	p Date:	04/09/20	)14	Run No:	265148	3
SampleType: LCS	TestCode:	Oxygenates (AES SOP O	A-11010) SW82	260B	Bat	chID: 189485	An	alysis Date:	04/09/20	)14	Seq No:	558592	26
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	f Val	%RPD	RPD	Limit	Qua
ert-Amyl alcohol	941.3	100	1000		94.1	70	130						
ert-Amyl methyl ether	171.9	10	200.0		85.9	70	130						
ert-Butyl Alcohol	962.7	100	1000		96.3	70	130						
Sample ID: 1404588-010AMS	Client ID:				Uni	its: ug/L	Pre	p Date:	04/09/20	)14	Run No:	265148	3
SampleType: MS	TestCode:	Volatile Organic Compo	unds by GC/MS	SW8260B	Bat	chID: 189485	An	alysis Date:	04/09/20	14	Seq No:	558558	39
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Rei	f Val	%RPD	RPD	Limit	Qua
Benzene	3765	50	2500	1833	77.3	70.2	138						
Ethylbenzene	3380	50	2500	352.0	121	71.9	133						
Naphthalene	3418	250	2500	687.5	109	54.6	130						
Toluene	6783	50	2500	5651	45.3	70	139						S
Kylenes, Total	15500	50	7500	8516	93.2	70.7	136						
Surr: 4-Bromofluorobenzene	2396	0	2500		95.8	66.2	120						
Surr: Dibromofluoromethane	2362	0	2500		94.5	79.5	121						
Surr: Toluene-d8	2343	0	2500		93.7	77	117						
Sample ID: 1404588-010AMS	Client ID:				Uni	its: ug/L	Pre	p Date:	04/09/20	)14	Run No:	265148	3
SampleType: MS	TestCode:	Oxygenates (AES SOP O	A-11010) SW8	260B	Bat	chID: 189485	An	alysis Date:	04/09/20	)14	Seq No:	558612	29
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	f Val	%RPD	RPD	Limit	Ona

Qualiflers: >

> Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Page 84 of 94

Date: 16-Apr-14

Client:

Crawford Environmental Services

Project Name: 1404588 Workorder:

ANALYTICAL QC SUMMARY REPORT Clouds Chevron et. al.

BatchID: 189485

Sample ID: 1404588-010AMS SampleType: MS	Client ID: M TestCode: 0	AW-10 Oxygenates (AES SOP O	A-11010) SW82	260B	Un Bat	its: ug/L chID: 189485		Date: 04/	/09/2014 /09/2014	Run No: 26514 Seq No: 55861	-
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Va	1 %RPD	RPD Limit	Qual
tert-Amyl alcohol	59760	5000	50000		120	54.6	145				
tert-Amyl methyl ether	10040	500	10000		100	71.1	129				
tert-Butyl Alcohol	64920	5000	50000		130	50.3	149				
Sample ID: 1404588-010AMSD SampleType: MSD	Client ID: N TestCode: V	/IW-10 Tolatile Organic Compo	ands by GC/MS	SW8260B	Un Bat	its: ug/L chID: 189485		Date: 04/	/09/2014 /09/2014	Run No: 26514 Seq No: 55855	-
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Va	1 %RPD	RPD Limit	Qual
Benzene	3510	50	2500	1833	67.1	70.2	138	3765	7.00	20	s
Ethylbenzene	3044	50	2500	352.0	108	71.9	133	3380	10.5	20	
Naphthalene	3107	250	2500	687.5	96.8	54.6	130	3418	9.55	21.4	
Toluene	6307	50	2500	5651	26.2	70	139	6783	7.27	20	S
Xylenes, Total	14120	50	7500	8516	74.7	70.7	136	15500	9.34	20	
Surr: 4-Bromofluorobenzene	2376	0	2500		95.0	66.2	120	2396	0	0	
Surr: Dibromofluoromethane	2408	0	2500		96.3	79.5	121	2362	0	0	
Surr: Toluene-d8	2323	0	2500		92.9	77	117	2343	0	0	
Sample ID: 1404588-010AMSD SampleType: MSD	Client ID: N TestCode: O	/W-10 oxygenates (AES SOP O	A-11010) SW82	260B	Un Bat	its: ug/L chID: 189485		Date: 04/	/09/2014 /09/2014	Run No: 26514 Seq No: 55861	-
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Va	1 %RPD	RPD Limit	Qual
tert-Amyl alcohol	55040	5000	50000		110	54.6	145	59760	8.22	23.5	
tert-Amyl methyl ether	9304	500	10000		93.0	71.1	129	10040	7.59	20	
tert-Butyl Alcohol	58470	5000	50000		117	50.3	149	64920	10.4	33.5	

Qualifiers:

- Greater than Result value
- BRL Below reporting limit
- Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

- < Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix
- B Analyte detected in the associated method blank
- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

Page 85 of 94

Date: 16-Apr-14

Client:

Crawford Environmental Services

Project Name: Clouds Chevron et. al. Workorder:

1404588

BatchID: 189488

ANALYTICAL QC SUMMARY REPORT

Sample ID: MB-189488 SampleType: MBLK	Client ID: TestCode:	Volatile Organic Compo	inds by GC/MS	SW8260B	Un Bat	its: ug/L tchID: 189488		Date: lysis Date:	04/09/2014 04/09/2014	Run No: Seq No:		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	f Val %RPI	) RPI	Limit	Qual
Benzene	BRL	1.0										
Ethylbenzene	BRL	1.0										
Methyl tert-butyl ether	BRL	1.0										
Naphthalene	BRL	5.0										
Toluene	BRL	1.0										
Kylenes, Total	BRL	1.0										
Surr: 4-Bromofluorobenzene	43.57	0	50.00		87.1	70	130					
Surr: Dibromofluoromethane	51.71	0	50.00		103	70	130					
Surr: Toluene-d8	46.46	0	50.00		92.9	70	130					
Sample ID: MB-189488 Sample Type: MBLK	Client ID: TestCode:	Oxygenates (AES SOP O	A-11010) SW82	260B	Un Bat	its: ug/L tchID: 189488		Date: lysis Date:	04/09/2014 04/09/2014	Run No: Seq No:		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	f Val %RPI	) RPI	) Limit	Qua
ert-Amyl alcohol	BRL	100										
ert-Amyl methyl ether	BRL	10										
ert-Butyl Alcohol	BRL	100										
Sample ID: LCS-189488	Client ID:				Un	its: ug/L	Prep	Date:	04/09/2014	Run No:	265148	
SampleType: LCS	TestCode:	Volatile Organic Compou	inds by GC/MS	SW8260B	Bat	tchID: 189488	Ana	lysis Date:	04/09/2014	Seq No:	558519	3
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	f Val %RPI	RPE	Limit	Qua
Benzene	42.79	1.0	50.00		85.6	70	130					
Ethylbenzene	52.90	1.0	50.00		106	70	130					
			50.00		103	70	130					
Naphthalene	51.36	5.0	30.00									
•	51.36 44.24	5.0 1.0	50.00		88.5	70	130					
Naphthalene Foluene Kylenes, Total					88.5 102		130 130					

- BRL Below reporting limit
- Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix
- H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Page 86 of 94

Client:
---------

Crawford Environmental Services

Project Name: Clouds Chevron et. al.

Workorder: 1404588

ANALYTICAL QC SUMMARY REPORT

BatchID: 189488

Sample ID: LCS-189488	Client ID:				Un			p Date:	04/09/201		Run No:		
SampleType: LCS	TestCode:	Volatile Organic Compo	unds by GC/MS	SW8260B	Bat	chID: 189488	Ana	alysis Date:	04/09/201	4	Seq No:	558519	)3
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	f Val 9	%RPD	RPD	Limit	Qua
Surr: Dibromofluoromethane	50.46	0	50.00		101	70	130						
Surr: Toluene-d8	48.87	0	50.00		97.7	70	130						
Sample ID: LCS-189488	Client ID:		<del></del>		IJn	its: ug/L	Pre	p Date:	04/09/201	4	Run No:	265148	3
SampleType: LCS	TestCode:	Oxygenates (AES SOP O	A-11010) SW82	260B	Bat	chID: 189488	Ana	alysis Date:	04/09/201	4	Seq No:	558592	27
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	f Val 9	%RPD	RPD	Limit	Qua!
ert-Amyl alcohol	1008	100	1000		101	70	130						
ert-Amyl methyl ether	172.4	10	200.0		86.2	70	130						
ert-Butyl Alcohol	1038	100	1000		104	70	130						
Sample ID: 1404588-021AMS	Client ID:	MW-23			Un	its: ug/L	Pre	p Date:	04/09/201	4	Run No:	265148	3
SampleType: MS	TestCode:	Volatile Organic Compo	unds by GC/MS	SW8260B	Bat	chID: 189488	Ana	alysis Date:	04/09/201	4	Seq No:	558558	35
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	fVal 9	%RPD	RPD	Limit	Qua
Benzene	27160	500	25000	4170	91.9	70.2	138						
thylbenzene	30110	500	25000	680.0	118	71.9	133						
laphthalene	25870	2500	25000	2995	91.5	54.6	130						
oluene	41790	500	25000	15980	103	70	139						
Yylenes, Total	102200	500	75000	15810	115	70.7	136						
Surr: 4-Bromofluorobenzene	23950	0	25000		95.8	66.2	120						
Surr: Dibromofluoromethane	24790	0	25000		99.1	79.5	121						
Surr: Toluene-d8	23760	0	25000		95.0	77	117						
Sample ID: 1404588-021AMS SampleType: MS	Client ID:	MW-23 Oxygenates (AES SOP O	A-11010) SW2	260R	Un	its: ug/L		p Date: alysis Date:	04/09/201		Run No: Seq No:		

Qualifiers:

> Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Client:

Crawford Environmental Services

Project Name: Clouds Chevron et. al.

Workorder:

1404588

ANALYTICAL QC SUMMARY REPORT

BatchID: 189488

								Datein	D. 100-1		
Sample ID: 1404588-021AMS	Client ID:	MW-23			Un	its: ug/L	Pre	Date: 04/09	9/2014	Run No: 26514	8
SampleType: MS	TestCode:	Oxygenates (AES SOP O	A-11010) SW82	260B	Bar	tchID: 189488		lysis Date: 04/09	9/2014	Seq No: 55861	26
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
ert-Amyl alcohol	479400	50000	500000	46630	86.6	54.6	145				
ert-Amyl methyl ether	92130	5000	100000		92.1	71.1	129				
ert-Butyl Alcohol	465400	50000	500000		93.1	50.3	149				
Sample ID: 1404588-021AMSD	Client ID:				Un	its: ug/L	Prej	Date: 04/09	9/2014	Run No: 26514	8
SampleType: MSD	TestCode:	Volatile Organic Compou	inds by GC/MS	SW8260B	Bat	tchID: 189488	Ana	lysis Date: 04/09	0/2014	Seq No: 55855	88
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	25920	500	25000	4170	87.0	70.2	138	27160	4.67	20	
Ethylbenzene	29350	500	25000	680.0	115	71.9	133	30110	2.54	20	
Vaphthalene	25590	2500	25000	2995	90.4	54.6	130	25870	1.07	21.4	
Toluene	39870	500	25000	15980	95.5	70	139	41790	4.71	20	
Kylenes, Total	98400	500	75000	15810	110	70.7	136	102200	3.82	20	
Surr: 4-Bromofluorobenzene	24050	0	25000		96.2	66.2	120	23950	0	0	
Surr: Dibromofluoromethane	24280	0	25000		97.1	79.5	121	24790	0	0	
Surr: Toluene-d8	23590	0	25000		94.4	77	117	23760	0	0	
Sample ID: 1404588-021AMSD SampleType: MSD	Client ID: 1 TestCode: 9	MW-23 Oxygenates (AES SOP O	A-11010) SW82	260B	Un Bat	its: ug/L chID: 189488		Date: 04/09 llysis Date: 04/09	0/2014 0/2014	Run No: 26514 Seq No: 55861	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
ert-Amyl alcohol	508600	50000	500000	46630	92.4	54.6	145	479400	5.90	23.5	
ert-Amyl methyl ether	86160	5000	100000		86.2	71.1	129	92130	6.70	20	
ert-Butyl Alcohol	520600	50000	500000		104	50.3	149	465400	11.2	33.5	

Qualifiers:

Greater than Result value

BRL Below reporting limit

Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Client:

Crawford Environmental Services

Project Name: Clouds Chevron et. al.

Workorder: 1404588 ANALYTICAL QC SUMMARY REPORT

BatchID: 189490

Sample ID: MB-189490 Sample Type: MBLK	Client ID: TestCode:	Volatile Organic Compo	ands by GC/MS	SW8260B	Uni Bat	ts: <b>ug/L</b> chID: 1 <b>89490</b>	•	Date: ysis Date:	04/09/2 04/09/2		Run No: Seq No:		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val	%RPD	RPD	Limit	Qua
Benzene	BRL	1.0											
thylbénzene	BRL	1.0											
Aethyl tert-butyl ether	BRL	1.0											
Vaphthalene	BRL	5.0											
oluene	BRL	1.0											
(ylenes, Total	BRL	1.0											
Surr: 4-Bromofluorobenzene	42.67	0	50.00		85.3	70	130						
Surr: Dibromofluoromethane	52.73	0	50.00		105	70	130						
Surr: Toluene-d8	46.71	0	50.00		93.4	70	130						
Sample ID: MB-189490 SampleType: MBLK	Client ID: TestCode:	Oxygenates (AES SOP O	A-11010) SW82	260B	Un Bat	its: ug/L chID: 189490	•	Date: ysis Date:	04/09/2 04/09/2		Run No: Seq No:		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	f Val	%RPD	RPD	Limit	Qua
Analyte ert-Amyl alcohol	Result BRL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	f Val	%RPD	RPD	Limit	Qua
			SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	f Val	%RPD	RPD	Limit	Qua
ert-Amyl alcohol	BRL	100	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	f Val	%RPD	RPD	Limit	Qua
ert-Amyl alcohol ert-Amyl methyl ether	BRL BRL BRL Client ID:	100 10		SPK Ref Val	Un		Prep	RPD Ref	04/09/2	2014	RPD Run No: Seq No:	265148	<u>-</u>
ert-Amyl alcohol ert-Amyl methyl ether ert-Butyl Alcohol Sample ID: LCS-189490	BRL BRL BRL Client ID:	100 10 100			Un	its: ug/L chID: <b>189490</b>	Prep	Date:	04/09/2 04/09/2	2014	Run No: Seq No:	265148	4
ert-Amyl alcohol ert-Amyl methyl ether ert-Butyl Alcohol Sample ID: LCS-189490 SampleType: LCS	BRL BRL BRL Client ID: TestCode:	100 10 100 Volatile Organic Compo	ands by GC/MS	SW8260B	Un Bat	its: ug/L chID: <b>189490</b>	Prep Ana	Date: lysis Date:	04/09/2 04/09/2	2014	Run No: Seq No:	265148 558519	4
ert-Amyl alcohol ert-Amyl methyl ether ert-Butyl Alcohol Sample ID: LCS-189490 SampleType: LCS Analyte Senzene	BRL BRL BRL Client ID: TestCode:	100 10 100 Volatile Organic Compo RPT Limit	unds by GC/MS SPK value	SW8260B	Un Bat %REC	its: ug/L chID: <b>189490</b> Low Limit	Prep Ana High Limit	Date: lysis Date:	04/09/2 04/09/2	2014	Run No: Seq No:	265148 558519	4
ert-Amyl alcohol ert-Amyl methyl ether ert-Butyl Alcohol Sample ID: LCS-189490 SampleType: LCS Analyte	BRL BRL Client ID: TestCode: Result 45.73	100 10 100 Volatile Organic Compo	sPK value	SW8260B	Un Bat %REC 91.5	its: ug/L cchID: 189490 Low Limit	Prep Anai High Limit	Date: lysis Date:	04/09/2 04/09/2	2014	Run No: Seq No:	265148 558519	4
ert-Amyl alcohol ert-Amyl methyl ether ert-Butyl Alcohol Sample ID: LCS-189490 SampleType: LCS Analyte Benzene Ethylbenzene	BRL BRL Client ID: TestCode: Result 45.73 58.40	100 10 100 Volatile Organic Compo  RPT Limit 1.0 1.0	unds by GC/MS SPK value 50.00 50.00	SW8260B	Un Bat %REC 91.5 117	its: ug/L chID: <b>189490</b> Low Limit 70 70	Prep Anal High Limit 130 130	Date: lysis Date:	04/09/2 04/09/2	2014	Run No: Seq No:	265148 558519	4
ert-Amyl alcohol ert-Amyl methyl ether ert-Butyl Alcohol Sample ID: LCS-189490 SampleType: LCS Analyte Benzene Ethylbenzene Naphthalene	BRL BRL Client ID: TestCode: Result 45.73 58.40 49.34	100 10 100  Volatile Organic Compo  RPT Limit 1.0 1.0 5.0	spk value 50.00 50.00 50.00	SW8260B	Un Bat %REC 91.5 117 98.7	its: ug/L chID: <b>189490</b> Low Limit 70 70	Prep Anai High Limit 130 130 130	Date: lysis Date:	04/09/2 04/09/2	2014	Run No: Seq No:	265148 558519	4

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded R RPD outside limits due to matrix

Page 89 of 94

Client:

Crawford Environmental Services

Project Name: Clouds Chevron et. al.

Workorder: 1404588 ANALYTICAL QC SUMMARY REPORT

BatchID: 189490

Sample ID: LCS-189490 Sample Type: LCS	Client ID: TestCode:	Volatile Organic Compo	unds by GC/MS	SW8260B	Uni Bat	its: ug/L chID: 189490		p Date: alysis Date:	04/09/2014 04/09/2014	Run No: 26514 Seq No: 55851	-
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD Limit	Qua
Surr: Dibromofluoromethane	50.17	0	50.00		100	70	130				
Surr: Toluene-d8	47.61	0	50.00		95.2	70	130				
Sample ID: LCS-189490	Client ID:				Uni	its: ug/L	Pre	p Date:	04/09/2014	Run No: 26514	8
SampleType: LCS	TestCode:	Oxygenates (AES SOP C	A-11010) SW8	260B	Bat	tchID: 189490	An	alysis Date:	04/09/2014	Seq No: 55859	29
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD Limit	Qua
ert-Amyl alcohol	1014	100	1000		101	70	130				
ert-Amyl methyl ether	174.5	10	200.0		87.2	70	130				
ert-Butyl Alcohol	1104	100	1000		110	70	130				
Sample ID: 1404588-053AMS	Client ID:				Un	its: ug/L	Pre	p Date:	04/09/2014	Run No: 26514	8
SampleType: MS	TestCode:	Oxygenates (AES SOP C	A-11010) SW8	260B	Bat	tchID: 189490	An	alysis Date:	04/09/2014	Seq No: 55861	33
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	`Val %RPD	RPD Limit	Qu
ert-Amyl alcohol	52970	5000	50000	1575	103	54.6	145				
ert-Amyl methyl ether	8350	500	10000		83.5	71.1	129				
ert-Butyl Alcohol	52150	5000	50000		104	50.3	149				
Sample ID: 1404588-053AMS	Client ID:				Un		Pre	p Date:	04/09/2014	Run No: 26523	
SampleType: MS	TestCode:	Volatile Organic Compo	unds by GC/MS	SW8260B	Bat	chID: 189490	An	alysis Date:	04/10/2014	Seq No: 55867	54
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD Limit	Qu
Benzene	460.2	10	500.0	20.10	88.0	70.2	138				
thylbenzene	827.4	10	500.0	301.6	105	71.9	133				
	508.6	50	500.0	65.30	88.7	54.6	130				
Iaphthalene					89.4	70	139				
laphthalene Foluene	447.2	10	500.0		89.4	70	137				

BRL Below reporting limit

Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix
- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

Page 90 of 94

Client: Cr

Crawford Environmental Services

Project Name: Clouds Chevron et. al.

Workorder: 1404588

BatchID: 189490

ANALYTICAL QC SUMMARY REPORT

Sample ID: 1404588-053AMS SampleType: MS	Client ID: MW- TestCode: Volati		unds by GC/MS	SW8260B	Uni Bat	its: ug/L chID: 189490			04/09/2014 04/10/2014	Run No: 26523' Seq No: 55867	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	460.8	0	500.0		92,2	66.2	120				
Surr: Dibromofluoromethane	474.7	0	500.0		94.9	79.5	121				
Surr: Toluene-d8	460.5	0	500.0		92.1	77	117				
Sample ID: 1404588-053AMSD	Client ID: MW-	-59			Uni	its: ug/L	Prep	Date:	04/09/2014	Run No: 265148	3

Sample ID: 1404588-053AMSD SampleType: MSD	Client ID: N TestCode: C	MW-59 Oxygenates (AES SOP O	A-11010) SW82	260B	Uni Bat	ts: ug/L chID: 189490		Date: 04/0 lysis Date: 04/0	9/2014 9/2014	Run No: 265148 Seq No: 5586134
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
tert-Amyl alcohol	58190	5000	50000	1575	113	54.6	145	52970	9.40	23.5
tert-Amyl methyl ether	9360	500	10000		93.6	71.1	129	8350	11.4	20
tert-Butyl Alcohol	57120	5000	50000		114	50.3	149	52150	9.09	33.5

Sample ID: 1404588-053AMSD SampleType: MSD	Client ID: M TestCode: Vo	W-59 latile Organic Compo	unds by GC/MS	SW8260B	Uni Bat	its: ug/L chID: 189490	- 1	Date: 04/09/ lysis Date: 04/10/		Run No: 265237 Seq No: 5587151	1
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit (	Qual
Benzene	437.7	10	500.0	20.10	83.5	70.2	138	460.2	5.01	20	
Ethylbenzene	782.7	10	500.0	301.6	96.2	71.9	133	827.4	5.55	20	
Naphthalene	500.2	50	500.0	65.30	87.0	54.6	130	508.6	1.67	21.4	
Toluene	425.9	10	500.0		85.2	70	139	447.2	4.88	20	
Xylenes, Total	1506	10	1500		100	70.7	136	1584	5.04	20	
Surr: 4-Bromofluorobenzene	456.9	0	500.0		91.4	66.2	120	460.8	0	0	
Surr: Dibromofluoromethane	470.4	0	500.0		94.1	79.5	121	474.7	0	0	
Surr: Toluene-d8	458.5	0	500.0		91.7	77	117	460.5	0	0	

Qualifiers:

> Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

CI	ient:	

Crawford Environmental Services

Project Name: Clouds Chevron et. al.

Workorder: 1404588 ANALYTICAL QC SUMMARY REPORT

BatchID: 189491

Sample ID: MB-189491 SampleType: MBLK	Client ID: TestCode:	Volatile Organic Compo	ands by GC/MS	SW8260B	Uni Bat	its: ug/L chID: 189491	•	Date: lysis Date:	04/09/2014 04/09/2014	Run No: 265148 Seq No: 5585204
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD Limit Qu
Benzene	BRL	1.0								
Ethylbenzene	BRL	1.0								
Methyl tert-butyl ether	BRL	1.0								
Vaphthalene	BRL	5.0								
'oluene	BRL	1.0								
(ylenes, Total	BRL	1.0								
Surr: 4-Bromofluorobenzene	42.62	0	50.00		85.2	70	130			
Surr: Dibromofluoromethane	54.64	0	50.00		109	70	130			
Surr: Toluene-d8	46.98	0	50.00		94.0	70	130			
Sample ID: MB-189491	Client ID:				Un			Date:	04/09/2014	Run No: 265148
SampleType: MBLK	TestCode:	Oxygenates (AES SOP O	A-11010) SW82	260B	Bat	chID: 189491	Ana	lysis Date:	04/09/2014	Seq No: 5585938
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	fVal %RPD	RPD Limit Qu
ert-Amyl alcohol	BRL	100								
ert-Amyl methyl ether	BRL	10								
ert-Butyl Alcohol	BRL	100								
Sample ID: LCS-189491	Client ID:				Un		-	Date:	04/09/2014	Run No: 265237
SampleType: LCS	TestCode:	Volatile Organic Compo	ands by GC/MS	SW8260B	Bat	chID: 189491	Ana	lysis Date:	04/10/2014	Seq No: 5586628
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	f Val %RPD	RPD Limit Qu
	41.65	1.0	50.00		83.3	70	130			
senzene			50.00		103	70	130			
	51.61	1.0	30.00							
Ethylbenzene	51.61 44.61	1.0 5.0	50.00		89.2	70	130			
Benzene Ethylbenzene Naphthalene Foluene					89.2 84.3	70 70	130 130			
Ethylbenzene Naphthalene	44.61	5.0	50.00							
Sthylbenzene Vaphthalene Foluene	44.61 42.13	5.0 1.0	50.00 50.00		84.3	70	130			

Page 92 of 94

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Client:

Crawford Environmental Services

Project Name: Clouds Chevron et. al.

Workorder: 1404588

BatchID: 189491

ANALYTICAL OC SUMMARY REPORT

Prep Date: 04/09/2014 Run No: 265237 Units: ug/L Sample ID: LCS-189491 Client ID: TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 189491 Analysis Date: 04/10/2014 Seq No: 5586628 SampleType: LCS RPD Limit Qual RPT Limit %REC Low Limit High Limit RPD Ref Val %RPD Analyte Result SPK value SPK Ref Val

 Surr: Dibromofluoromethane
 48.45
 0
 50.00
 96.9
 70
 130

 Surr: Toluene-d8
 46.96
 0
 50.00
 93.9
 70
 130

Units: 04/09/2014 Run No: 265237 Sample ID: LCS-189491 Client ID: Prep Date: ug/L TestCode: Oxygenates (AES SOP OA-11010) SW8260B BatchID: 189491 SampleType: LCS Analysis Date: 04/10/2014 Seq No: 5586638 %REC Low Limit High Limit RPD Ref Val %RPD RPD Limit Qual **RPT** Limit SPK value SPK Ref Val Analyte Result 977.2 1000 97,7 70 130 100

 tert-Amyl alcohol
 977.2
 100
 1000
 97.7
 70
 130

 tert-Amyl methyl ether
 186.7
 10
 200.0
 93.3
 70
 130

 tert-Butyl Alcohol
 978.6
 100
 1000
 97.9
 70
 130

Sample ID: 1404588-066AMS Client ID: DW-5 Units: 04/09/2014 Run No: 265148 Prep Date: ug/L TestCode: Volatile Organic Compounds by GC/MS SampleType: MS SW8260B BatchID: 189491 Analysis Date: 04/09/2014 Seq No: 5585598 SPK Ref Val %REC Low Limit High Limit RPD Ref Val %RPD RPD Limit Qual RPT Limit SPK value Analyte Result Benzene 4804 2500 60.0 70.2 S Ethylbenzene 2580 50 2500 30.00 102 71.9 133

250 2500 83.9 Naphthalene 2344 247.0 54.6 130 2500 80.9 Toluene 2090 50 66.00 70 139 8192 50 7500 1031 95.5 70.7 136 Xylenes, Total Surr: 4-Bromofluorobenzene 2313 2500 92.5 66.2 120 Surr: Dibromofluoromethane 2320 0 2500 92.8 79.5 121 2500 90.8 77 117 Surr: Toluene-d8 2270 0

Sample ID: 1404588-066AMS Client ID: DW-5 Prep Date: 04/09/2014 Run No: 265148 Units: ug/L TestCode: Oxygenates (AES SOP OA-11010) SW8260B BatchID: 189491 Analysis Date: 04/09/2014 Seg No: 5586135 SampleType: MS RPT Limit SPK value SPK Ref Val %REC Low Limit High Limit RPD Ref Val %RPD RPD Limit Qual Analyte Result

Qualifiers:

> Greater than Result value

DRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Page 93 of 94

Client:

Crawford Environmental Services

Project Name: Clouds Chevron et. al.

Workorder:

1404588

ANALYTICAL QC SUMMARY REPORT

BatchID: 189491

Workorder: 1404588								Bat	tchID: 1894	91	
Sample ID: 1404588-066AMS	Client ID:				Un		•		04/09/2014	Run No: 2651	
SampleType: MS	TestCode:	Oxygenates (AES SOP O	A-11010) SW82	260B	Bat	chID: 189491	Ana	lysis Date:	04/09/2014	Seq No: 5586	135
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD Limit	Qual
ert-Amyl alcohol	55970	5000	50000	4148	104	54.6	145				
ert-Amyl methyl ether	8842	500	10000	77.00	87.6	71.1	129				
ert-Butyl Alcohol	52110	5000	50000		104	50.3	149				
Sample ID: 1404588-066AMSD	Client ID:	DW-5			Uni	its: ug/L	Prep	Date:	04/09/2014	Run No: 2651	18
SampleType: MSD	TestCode:	Volatile Organic Compou	inds by GC/MS	SW8260B ·	Bat	ichID: 189491	Ana	lysis Date:	04/09/2014	Seq No: 5585	500
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD Limit	Qual
Benzene	5480	50	2500	3304	87.0	70.2	138	4804	13.1	20	
thylbenzene	2845	50	2500	30.00	113	71.9	133	2580	9.79	20	
Naphthalene	2435	250	2500	247.0	87.5	54.6	130	2344	3.81	21.4	
Toluene	2344	50	2500	66.00	91.1	70	139	2090	11.5	20	
Kylenes, Total	8936	50	7500	1031	105	70.7	136	8192	8.70	20	
Surr: 4-Bromofluorobenzene	2315	0	2500		92.6	66.2	120	2313	0	0	
Surr: Dibromofluoromethane	2356	0	2500		94.3	79.5	121	2320	0	0	
Surr: Toluene-d8	2336	0	2500		93.4	77	117	2270	0	0	
Sample ID: 1404588-066AMSD	Client ID:				Uni	its: ug/L	Prep	Date:	04/09/2014	Run No: 2651	18
SampleType: MSD	TestCode:	Oxygenates (AES SOP O	A-11010) SW82	260B	Bat	chID: 189491	Ana	lysis Date:	04/09/2014	Seq No: 5586	136
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD Limit	Qual
ert-Amyl alcohol	61000	5000	50000	4148	114	54.6	145	55970	8.59	23.5	
ert-Amyl methyl ether	9779	500	10000	77.00	97.0	71.1	129	8842	10.1	20	
ert-Butyl Alcohol	59060	5000	50000		118	50.3	149	52110	12.5	33.5	

Qualifiers:

Greater than Result value

BRL Below reporting limit

Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified S Spike Recovery outside limits due to matrix B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Page 94 of 94

## **APPENDIX E**

**QAPP Addendum Contractor Checklist** 



Item #:	Item	Yes	No	N/A
<u> </u>	Is Facility Name, Permit #, and address provided?	Yes		
2	Is UST Owner/Operator name, address, provided?	Yes		
3	Is name, address, & phone number of current property owner provided?	Yes		
4	Is the SCDHEC Certified UST Site Rehabilitation Contractor's name, address, phone number, and certification number provided?	Yes		
5	Is the name, address ,telephone number, and certification number of the well driller that installed the boring/monitoring wells provided?	Yes		
3	Is the name, address, telephone number, and certification number of the certified laboratories performing analytical analyses provided	Yes		
7	Has the facility history be summarized?			N/A
3	Has the regional geology and hydrogeology been summarized?			N/A
)	Are the receptor survey results provided as required?			N/A
10	Has the current use of the site and adjacent land been described?	Yes		
11	Has the site specific geology been described?			N/A
12	Has the primary soil type been described?			N/A
13	Have the field screening results been described?			N/A
14	Has a description of the soil sample collection and preservation been detailed?			N/A
15	Has the field screening methodology been detailed?			N/A
16	Has the monitoring well installation and development dates been provided?			N/A
17	Has the method of well development been detailed? (Table 2)			N/A
18	Has the justification been provided for the locations of the monitoring wells?			N/A
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			N/A
20	Has the groundwater sampling methodology been detailed?	Yes		
21	Have the groundwater sampling dates and groundwater measurements been provided?	Yes		
22	Has the purging methodology been detailed?	Yes		
23	Has the volume of water purged from each well been provided along with the measurements to verify purging is complete?	Yes		
24	If free-product is present, has the thickness been provided?			N/A
25	Does the report include a brief discussion of the assessment done and the results?	Yes		

UST P	ogrammatic QAPP Contractor Checklist		·
26	Does the report include a brief discussion of the aquifer evaluation and the results?		N/A
27	Does the report include a brief discussion of the fate & transport models used?		N/A
28	Are the site-conceptual tables included (Tier 1 risk evaluation)		N/A
29	Have the exposure pathways been analyzed (Tier 2 risk evauluation)		N/A
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 risk evaluation)		N/A
31	Have recommendations for further action been provided and explained?		N/A
32	Has the soil analytical data for the site been provided in tabular format? (Table 5)		N/A
33	Has the potentiometric data for the site been provided in tabular format?	Yes	
34	Has the current and historical laboratory data been provided in tabular format		N/A
35	Have the aquifer characteristics been provided and summarized on the appropriate form?		N/A
36	Have the Site conceptual model tables been included (Tier 1 risk evaluation)	-	N/A
37	Has the topographic map been provided with all the required elements?	Yes	
38	Has the site base map been provided with all the required elements?	Yes	
39	Have the CoC maps been provided?	Yes	
40	Have the potentiometric maps been provided?		. N/A
41	Have the geologic cross-sections been provided		N/A
42	Have maps showing the predicted migration of the CoCs through time been provided?		N/A
43	Has the site survey been provided and include all necessary elements? (Appendix A)		N/A
44	Have the sampling logs, chain of custody forms and analytical data package been included with all elements? (Appendix B)	Yes	
45	Is the laboratory performing the analyses properly certified? (Appendix B)	Yes	
46	Has the tax map been included with all necessary elements? (Appendix C)		N/A
47	Have the soil/boring field screening logs been provided? (Appendix D)		N/A
48	Have the well completion logs been provided? (Appendix E)		N/A
49	Have the aquifer evaluation forms,data, graphs, equations,etc. been provided? (Appendix F)		N/A
50	Have the disposal manifests been provided? (Appendix G)	Yes	
51	Has a copy of the local zoning regulations been provided? (Appendix H)		N/A

UST P	rogrammatic QAPP Contractor Checklist		
52	Has all fate and transport modeling been provided? (Appendix I)		N/A
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)		N/A
54	Has a copy of this form been attached to the final report and are explainations for any missing or incomplete data been provided?	Yes	
Comm	nents:		

## **TABLES**

Table 1: Well Construction and Historical Groundwater Elevation Summary
Table 2: Groundwater Laboratory Analytical Result Summary
Table 3: Site Specific Target Levels



acility Name:				sity Mart & Clouds		_	IST Permit I			777 / 12352
ddress:	236			lumbia, South Ca <b>truction and</b> H			Project Nu Elevation		7.0	547
	Well Depth		ened	Top of Casing	Date	Depth to	Depth to	Product	Product	Groundwate
Monitor Well	(ft)	Inte	rval	(ft)	Measured	Product (ft)	Water (ft)	Thickness (ft)	Elevation (ft)	Elevation (f
MW-1	27	17	27	93.89	4/2/2014	NA	DRY	NA	NA NA	DRY
MW-2	30	20	30	94.70	4/2/2014	NA	21.12	NA NA	NA NA	73.58
MW-3	29	19	29	94.45	4/2/2014	NA NA	21.40	NA	NA	73.05
MW-4	28	18	28	94.85	4/2/2014	NA NA	21.31	NA NA	NA NA	73.54
MW-5	26	16	26	95.26	4/2/2014	NA NA	DRY	NA .	NA NA	DRY
MW-6	30	20	30	94.96	4/3/2014	NA NA	22.61	NA NA	NA NA	72.35
MW-7	30	20	30	95.93	4/3/2014	NA NA	23.02	NA NA	NA NA	72.91
MW-8 MW-9	28 30	18.5 20	28 30	94.79 92.30	4/3/2014 4/2/2014	NA NA	19.95 20.60	NA NA	NA NA	74.84 71.70
MW-10	28	18	28	85.98	4/1/2014	NA NA	17.69	NA NA	NA NA	68.29
MW-11	30		nown	88.46	4/2/2014	NA NA	18.61	NA NA	NA NA	69.85
MW-12	24.65		nown	72.80	4/2/2014	NA NA	4.20	NA NA	NA NA	68.60
MW-13	30.1		nown	80.44	4/1/2014	NA NA	11.13	NA NA	NA NA	69.31
MW-15	25	15	25	86.44	4/1/2014	16.60	16.00	0.60	69.84	70.88*
MW-16	25	15	25	88.19	4/2/2014	NA	17.54	NA	NA NA	70.65
MW-17	22	20	30	92.45	4/2/2014	NA NA	22.00	NA	NA NA	70.45
MW-18	30	20	30	94.81	4/2/2014	NA	23.68	NA NA	NA	71.13
MW-19	30	20	30	93.96	4/3/2014	NA NA	23.33	NA	NA .	70.63
MW-20	25	15	25	94.12	4/3/2014	NA	21.95	NA	NA	72.17
MW-22	30	20	30	94.25	4/3/2014	NA NA	21.11	NA NA	NA	73.14
MW-23	30	20	30	94.43	4/3/2014	NA NA	23.65	NA	NA.	70.78
MW-25	25.6		nown	93.09	4/1/2014	NA	19.71	NA NA	NA NA	73.38
MW-26	30		nown	95.96	4/3/2014	NA NA	20.01	NA NA	NA NA	75.95
MW-27 MW-28	30	15 15	30 30	91.40 91.46	4/1/2014 4/1/2014	NA NA	14.65 15.63	NA NA	NA NA	76.75
MW-29	30	15	30	91.09	4/1/2014	NA NA	15.51	NA NA	NA NA	75.83 75.58
MW-30	30	15	30	92.77	4/1/2014	NA NA	20.50	NA NA	NA NA	72.27
MW-31	35	20	35	95.20	4/2/2014	NA NA	24.41	NA NA	NA NA	70.79
MW-32	30	15	30	92.87	4/2/2014	NA NA	21.28	NA NA	NA NA	71.59
MW-33	35	20	35	93.84	4/1/2014	NA NA	23.18	NA NA	NA NA	70.66
MW-34	35	20	35	94.77	4/1/2014	NA NA	24.06	NA NA	NA NA	70.71
MW-35	35	20	35	93.71	4/1/2014	NA	21.35	NA NA	NA NA	72.36
MW-36	35	20	35	93.89	4/1/2014	NA NA	22.84	NA NA	NA .	71.05
MW-37	35	20	35	93.78	4/1/2014	NA NA	22.24	NA NA	NA	71.54
MW-38	35	20	35	95.53	4/1/2014	NA_	24.61	NA	NA	70.92
MW-39	35	20	35	96.19	4/2/2014	NA NA	25.59	NA NA	NA	70.60
MW-40	35	20	35	95.69	4/2/2014	NA .	25.29	NA NA	NA	70.40
MW-41	35	20	35	94.85	4/1/2014	NA NA	24.70	NA	. NA	70.15
MW-42	35	20	35	95.81	4/1/2014	NA NA	25.35	NA NA	NA NA	70.46
MW-43 MW-44	40 31	20	40	95.15	4/2/2014	NA NA	24.00	NA NA	NA NA	71.15
MW-45	30	16 15	31 30	94.57 92.51	4/1/2014 4/1/2014	NA NA	24.42 21.22	NA NA	NA NA	70.15 71.29
MW-46	35	20	35	94.50	4/1/2014	NA NA	23.55	NA NA	NA NA	70.95
MW-48	30	15	30	89.95	4/2/2014	NA NA	19.70	NA NA	NA NA	70.95
MW-49	30	15	30	88.18	4/2/2014			e to Access - Lo		10.20
MW-50	30	15	30	84.09	4/2/2014			e to Access - Lo		
MW-51	35	20	35	93.91	4/2/2014	NA NA	21.23	NA NA	NA NA	72.68
MW-53	20	5	20	79.60	4/3/2014	NA	9.60	NA.	NA NA	70.00
MW-54	20	5	20	77.58	4/1/2014	NA	11.31	NA	NA NA	66.27
MW-55	14	4_	14	71.22	4/3/2014	NA	2.51	NA	NA	68.71
MW-56	20	5	20	76.39	4/3/2014	NA	5.12	NA	NA	71.27
MW-58	19	4	19	76.37	4/2/2014			Abandoned		
MW-59	17	2	17	68.02	4/2/2014	NA NA	6.05	NA NA	NA	61.97
MW-60	14	4	14	67.94	4/2/2014	<b></b> _		Unable to Loc		
MW-62	35	20	35	94.05	4/1/2014	NA NA	22.32	NA NA	NA NA	71.73
MW-63	35 35	20	35	94.65	4/2/2014	NA NA	23.07	NA NA Posta P	NA NA	71.58
MW-65 MW-67	35 35	20 20	35 35	94.04 96.10	4/2/2014 4/1/2014	NA NA		le to Locate - Pa		74.00
MW-70	35	20	35	95.49	4/2/2014	NA NA	24.44 24.70	NA NA	NA NA	71.66
MW-5AR	28	18	28	95.49	4/1/2014	NA NA	21.24	NA NA	NA NA	70.79 72.94
PW-1R	50	45	50	93.75	4/3/2014	NA NA	23.11	NA NA	NA NA	72.94
DW-1	70	65	70	94.66	4/2/2014	NA NA	45.00	NA NA	NA NA	49.66
DW-2	75	70	75	94.02	4/2/2014	NA NA	44.34	NA NA	NA NA	49.68
DW-3	52	47	52	93.75	4/3/2014	NA NA	24.40	NA NA	NA NA	69.35
DW-4	110	105	110	93.79	4/3/2014	NA NA	44.60	NA NA	NA NA	49.19
DW-5	70	65	70	93.74	4/1/2014	NA NA	44.22	NA NA	NA NA	49.52
DW-6	70	65	70	95.90	4/1/2014	NA NA	45.86	NA NA	NA NA	50.04

					Table 1					
Facility Name:	Handy F	antry #6	5 / Univer	sity Mart & Clouds	S Chevron	į	IST Permit I	D:	07584 / 07	777 / 12352
Address:	236	7 Taylor	Street Co	lumbia, South Ca	rolina	CES	Project Nu	mber:	7.0	547
		We	ii Cons	truction and H	listorical Gr	oundwater i	Elevation	Summary		
Monitor Well	Well Depth	Scre	ened	Top of Casing	Date	Depth to	Depth to	Product	Product	Groundwater
MONITO Well	(ft)	Inte	erval	(ft)	Measured	Product (ft)	Water (ft)	Thickness (ft)	Elevation (ft)	Elevation (ft)
DW-7	55	50	55	72.79	4/3/2014	NA	24.00	NA	NA	48.79
DW-8	55	50	55	68.63	4/2/2014			Abandoned		
DW-9	65	60	65	76.47	4/2/2014	NA	25.00	NA NA	NA -	51.47

INA = Information not available

* = GW Elevation Corrected for The Presence of Free Product n/a = not applicable

CRAWFORD ENVIRONMENTAL SERVICES

acility Name: Address:	Handy Pantry i 2367 Taylor St	reet Columbi	a, South Ca	louds Chevron rolina	Table 2 y Analytical Re	US Crawford F esult Summa	roject No.	0758	4 / 07777 / 12 7.0547	2352
Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-1	4/2/2014					Dry				
MW-2	4/2/2014	170	41	200	960	320	150	230	1	6.8
MW-3	4/2/2014	6900	18000	1200	16000	1800	600	980	560.000	340
MW-4	4/2/2014	<1	<1	<1	<1	3.5	<5	<100	10.000	<100
MW-5	4/2/2014					Dry			,	
MW-6	4/3/2014	2.6	<1	2.4	10	2.5	4.2	<100	<10	<100
MW-7	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-8	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-9	4/2/2014	830	7500		14000	50		1700		5
MW-10	4/1/2014	1800	5700	350	8500	50	690	5000	500.000	500
MW-11	4/2/2014	2.3	4.1	11	4.1	<1	4.4	120	<10	<10
MW-12	4/2/2014	2.9	0.67	1.6	0.91	18	4.7	630	9.300	<10
MW-13	4/1/2014	0.62	8.8	4.5	86	<1	31	10	<10	<10
MW-15	4/1/2014	- 4	-4	1 .4		t of Free Produc			1 12 1	
MW-16 MW-17	4/2/2014	<1 280	<1 5100	<1 450	<1 13000	<u>&lt;1</u> 50	3.4	<100	<10	<100
MW-17	4/2/2014 4/2/2014	1900	7200	630	13000 8300		850	2200	500.000	500
MW-18	4/3/2014	300	1800	490	12000	340	370	4900	70.000	500
MW-20	4/3/2014	1800				50	900	610	500.000	500
			11000	460	11000	50	960	3100	65.000	500
MW-22	4/3/2014	5700	12000	880	23000	50	990	3600	500.000	500
MW-23 MW-25	4/3/2014	4200	16000	880	19000	120	1100	5900	500.000	500
MW-25 MW-26	4/1/2014 4/3/2014	5.5 <1	200 <1	320	4400	<1	1300	170	<10	<10
MW-27	4/3/2014	<1	<u> </u>	<1 <1	<1 <1	<1 <1	<5 - 45	<100	<10	<10
							<5 	<100	<10	<10
MW-28 MW-29	4/1/2014	<1 <1	<u>&lt;1</u> <1	<1 <1	<1 <1	<1	<5	<100	<10	<10
MW-30	4/1/2014 4/1/2014	1 21	<del>- \ \</del> 1	<1	<1	<1	<5 15	<100	<10	<10
MW-31	4/2/2014	0.9	<del>- \1</del>	<1	<1	<1	<5	<100	<10	<10
MW-32	4/2/2014	0.94	<1	1.9	2.4	2.7	<5	59	<10	<10
						<1	6.6	170	<10	<10
MW-33 MW-34	4/1/2014	560	5200	2500	6900	50	670	4100	500.000	500
MW-35	4/1/2014 4/1/2014	<1 3700	<1 4300	<1 2000	<1 6200	<1	<5	39	<10	<10
MW-36	4/1/2014	5.1	<u>4300</u> <1	38	6200 <1	160	550	5600	54.000	500
MW-37	4/1/2014	3.1 <1	<1	30 <1	<1	<u> &lt;1</u> <1	55	96	<10	<10
MW-38	4/1/2014	<del>  \\</del>	<del>- &lt;1</del>	<1	<u> </u>	<1 <1	3.7	<100	<10	<10
MW-39	4/2/2014	<1	3.2	2.2	14	<1	<5 2.2	<100 <100	<10	<10
MW-40	4/2/2014	5.8	14	2.2	580	<1	3.3 24	<100	<10 <10	<10: <10:
MW-41	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
MW-42	4/1/2014	<del>     </del>	<u>-                                    </u>	<1	<1	<1	<5 <5	<100	<10	<10
MW-43	4/2/2014	<1	<1	<1	<1	<1	<b>&lt;</b> 5	<100	<10	<10
MW-44	4/1/2014	41	<1	<1	<1	<1	<5 <5	<100	<10	
MW-45	4/1/2014	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u> </u>	<1	<1	<1	<5 <5	<100	<10	<10: <10:
MW-46	4/1/2014	1 3	<del></del>	<1	<del></del>	<1	<5 <5	<100	<10	<10
MW-48	4/2/2014	<1	<del>- \1</del>	<1	<1	<1	<5 <5	<100	<10	<10
MW-49	4/2/2014	<del>                                     </del>				ccess - Locked		~100	_ ^10	<u> </u>
MW-50	4/2/2014	<del>                                     </del>				cess - Locked				
MW-51	4/2/2014	<1	<1	<1	<1	<1 <1	<b>&lt;</b> 5	<100	<10	<10
MW-53	4/3/2014	<1	<1	<1	<1	<1	4.1	<100	<10	<10
MW-54	4/1/2014	<1	<1	<1	<1	9.6	<5	<100	6.700	<10
MW-55	4/3/2014	10	1	3.5	<1	24	3.9	98	6.400	<10
MW-56	4/3/2014	<1	<1	<u>&lt;1</u>	<1	<1	<5	50	<10	<10
MW-58	4/2/2014		•	•		pandoned				
MW-59	4/2/2014	28	2.8	300	6.4	130	45	2600	42.000	160
MW-60	4/2/2014					ole to Locate	·			
MW-62	4/1/2014	0.86	<1	<1	<1	3	3.3	260	<10	<10
MW-63	4/2/2014	<1	<1	<1	<1	<1	5	120	<10	<10
MW-65	4/2/2014				Unable to L	ocate - Paved o	wer		1	
MW-67	4/1/2014	<1	<1	<1	<1	<1	5	<100	<10	<10
MW-70	4/2/2014	<1	<1	<1	<1	<1	5	<100	<10	<10
MW-5AR	4/1/2014	12000	13000	2400	13000	70	1000	<5000	160.000	<500
PW-1R	4/3/2014	460	3400	320	9200	<50	<250	710	<500	<500
DW-1	4/2/2014	0.45	1.2	1.7	7.2	<1.0	<5.0	<100	<10	<10
DW-2	4/2/2014	<1.0	<1.0	<1.0	<1.0	7.1	4.1	<100	<10	<10
DW-3	4/3/2014	9800	22000	3700	17000	990	780	10000	190.000	<500
DW-4	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
DIA/ E	4/1/2014	3300	68	37	1000	940				<10
DW-5	7/ 1/20 17	<u> </u>		31	1000	940	81	4300	83.000	~10

ļ

					Table 2					
Facility Name: Address:	Handy Pantry a 2367 Taylor St					_	ST Project No.	0758	4 / 07777 / 1 7.0547	2352
		G	roundwat	er Laborato	ry Analytical Re	esult Sumn	nary			
Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
DW-7	4/3/2014	0.52	0.46	<1.0	1.4	2.6	4.2	<100	<10	<100
DW-8	4/2/2014				Al	bandoned				
DW-9	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
SW-1	4/2/2014	180	8.4	30	53	42	6.5	350	9.500	100

BDL= Below Detectable Limit
RBSL= Risk Based Screening Levels
NE= Not Established

CRAWFORD ENVIRONMENTAL SERVICES

1,2 DCA = 1,2 Dichloroethane
J = Estimated value detected below reporting limit

						Table 3						
	Facility Name: Address:		Hanc,	Handy Pantry #65 / University Mart & Clouds Chevron 2367 Taylor Street Columbia South Certific	Iniversity Ma	rt & Clouds Ch	evron			J	UST Crauford Deplement No	07584 / 07777 / 12352
				Si	te Specific	Site Specific Target Level Summary	el Summ	ary			जेव्य क	100.1
186011	, post		Toler	4	Xylenes	Tark	4		1,50	ļ		
	leillin	140.0	D'URC	Eulylbenzene 58.0	( lotal)	MIDE	napun 54 o	- A	AWE.	VQ 1	10181	
	SSTL	77.0	280.0	56.0	460.0	380.0	2.0	2000	200	140.0	1656.2	
2,100	Initial > SSTL	63.0	0.0	0.0	0.0	0.0	00	00	0.0	0.0	63.0	
7-AMM	Subsequent	170.0	41.0	200.0	0.096	320.0	150.0	230.0	0.	6.8	2078.8	-1269.84%
	SSTL	77.0	280.0	56.0	460.0	380.0	54.0	200.0	9.2	140.0	1656.2	
	Subsequent > SSTL	93.0	0.0	144.0	200.0	0.0	96.0	30.0	0.0	0.0	863.0	
	Initial	3000.0	7400.0	260.0	4500.0	3300.0	260.0	2000.0	340.0	1300.0	22360.0	
	SSTL	111.0	7400.0	260.0	4500.0	1976.0	108.0	2000.0	340.0	1300.0	17995.0	
MW.3	Initial > SSTL	2889.0	0.0	0.0	0.0	1324.0	152.0	0.0	0.0	0.0	4365.0	à
2	Subsequent	6900.0	18000.0	1200.0	16000.0	1800.0	0.009	980.0	560.0	340.0	46380.0	%2000
	SSTL	111.0	7400.0	260.0	4500.0	1976.0	108.0	2000.0	340.0	1300.0	17995.0	
	Subsequent > SSTL	6789.0	10600.0	940.0	11500.0	0.0	492.0	0.0	220.0	0.0	30541.0	
	Initial	50.0	50.0	50.0	30.5	946.0	20.0	1000.0	100.0	1000.0	3276.5	
	SSTL	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	
MW.5	Inttial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	į
2	Subsequent					Dry						Ŝ
	"LLSS	50.0	50.0	0.05	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	
	Subsequent > SSTL					Dry						
	Initial	4100.0	27000.0	2500.0	19000.0	150.0	0.096	1600.0	2000.0	20000.0	77310.0	
	SSTL	35.0	7134.0	2500.0	19000.0	150.0	68.0	809.0	270.0	15628.0	45594.0	
MAYO	Initial > SSTL	4065.0	18	0.0	0.0	0.0	892.0	791.0	1730.0	4372.0	31716.0	,622
2	Subsequent	830.0				50.0				5000.0	36370.0	<b>%</b> //
	SSTL	35.0	7134.0	2500.0	19000.0	150.0	68.0	809.0	270.0	15628.0	45594.0	
	Subsequent > SSTL	795.0	366.0	0.0	0.0	0.0	522.0	891.0	4730.0	0.0	7304.0	
	Initial	740.0	7800.0	2500.0	15000.0	2500.0	950.0	50000.0	200000	50000.0	134490.0	
	SSTL	24.0	7800.0	2500.0	15000.0	294.0	53.0	793.0	707.0	11042.0	38213.0	_
MW-10	Initial > SSTL	716.0	0.0	0.0	0.0	2206.0	897.0	49207.0	4293.0	38958.0	96277.0	%60
:	Subsednent	1800.0	5700.0	350.0	8500.0	20.0	690.0	5000.0	2000	2000.0	27590.0	223
	SSTL	24.0	7800.0	2500.0	15000.0	294.0	53.0	793.0	707.0	11042.0	38213.0	
	Subseduent > SSTL	1//6.0	S.	0.0	2.0	0.0	637.0	4207.0	3	0.0	6620.0	
	Initial	;	5.0	11.0	20	5.6	4.7	370.0	5.	19.0	423.5	
	3315	-	0.0	0.11	0.0	0.0	4.7	3/0.0	C.	18.0	423.5	
MW-12	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	-36140%
!	Subseduent	2.9	0.7	1.6	6.0	18.0	4.7	630.0	9.3	100.0	768.1	2
_	SSTL	1.7	5.0	11.0	5.0	5.6	4.7	370.0	1.5	19.0	423.5	
	Subsequent > SSTL	1.2	0.0	0.0	0.0	12.4	0.0	260.0	7.8	81.0	362.4	
	Initial					Free Product	luct					
	SSTL	16.0	3198.0	3700.0	21680.0	730.0	45.0	492.0	199.0	5838.0	35898.0	
MW-15	Initial > SSTL											70.000
2	Subsequent					Free Product	luct					manual paid
	SSTL	16.0	3198.0	3700.0	21680.0	730.0	45.0	492.0	199.0	5838.0	35898.0	
	Subsequent > SSTL										0.0	

						Table 3						
	Facility Name:		Hand	Handy Pantry #65 / University Mart & Clouds Chevron 2367 Taulor Street Columbia South Carolina	Iniversity Mar	t & Clouds Chi	evron			) D	UST Drawford Dropout No.	07584 / 07777 / 12352
	200		•	See Free Const	te Specific	Site Specific Target Level Summary	el Summa	II.			200	
Well ID:	ltem	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	
	Initial	1400.0	26000.0	2500.0	23000.0	1000.0	1000.0	9400.0	2000.0	20000.0	86300.0	
	SSTL	32.0	6631.0	2500.0	21680.0	1000.0	0.99	773.0	263.0	14286.0	47231.0	
MAA417	Initial > SSTL	1368.0	19369.0	0.0	1320.0	0.0	934.0	8627.0	1737.0	5714.0	39069.0	03%
- AA IAI	Subsequent	280.0	5100.0	450.0	13000.0	50.0	850.0	2200.0	200.0	5000.0	27430.0	20,00
	SSTL	32.0	6631.0	2500.0	21680.0	1000.0	0.99	773.0	263.0	14286.0	47231.0	
	Subsequent > SSTL	248.0	0.0	0.0	0.0	0.0	784.0	1427.0	237.0	0.0	2696.0	
	Initial	1900.0	7200.0	630.0	8300.0	340.0	370.0	4900.0	70.0	5000.0	28710.0	
	SSTL	40.0	19326.0	3700.0	21680.0	4260.0	348.0	938.0	4989.0	54462.0	109743.0	
2000	Initial > SSTL	1860.0	0.0	0.0	0:0	0.0	22.0	3962.0	0.0	0.0	5844.0	è
OI-AAIAI	Subsequent	1900.0	7200.0	0.059	8300.0	340.0	370.0	4900.0	70.0	2000.0	28710.0	%
	SSTL	40.0	19326.0	3700.0	21680.0	4260.0	348.0	938.0	4989.0	54462.0	109743.0	
	Subsequent > SSTL	1860.0	0.0	0.0	0.0	0.0	22.0	3962.0	0.0	0.0	5844.0	
	Initial	300.0	1800.0	490.0	12000.0	50.0	0.006	610.0	500.0	5000.0	21650.0	
	SSTL	54.0	11081.0	3700.0	21680.0	16080.0	86.0	1065.0	320.0	26814.0	80880.0	
01/4/10	Initial > SSTL	246.0	0.0	0.0	0.0	0.0	814.0	0.0	180.0	0.0	1240.0	ě
SI-MIM	Subsequent	300.0	1800.0	490.0	12000.0	50.0	0'006	610.0	500.0	5000.0	21650.0	%5
	SSTL	54.0	11081.0	3700.0	21680.0	16080.0	86.0	1065.0	320.0	26814.0	80880.0	
	Subsequent > SSTL	246.0	0.0	0.0	0.0	0.0	814.0	0.0	180.0	0.0	1240.0	
	Initial	412.0	2930.0	728.0	8820.0	88.7	817.0	2850.0	200.0	2000.0	18845.7	
	SSTL	83.0	0'0867	728.0	8820.0	88.7	108.0	1403.0	200.0	2000.0	16360.7	
00,7404	Initial > SSTL	329.0	0.0	0.0	0.0	0.0	709.0	1447.0	0.0	0.0	2485.0	805%
02-48181	Subsequent	1800.0	11000.0	460.0	11000.0	50.0	0.096	3100.0	95.0	5000.0	33435.0	8.000
	SSTL	83.0	2930.0	728.0	8820.0	88.7	108.0	1403.0	200.0	2000.0	16360.7	
	Subsequent > SSTL	1717.0	8070.0	0.0	2180.0	0.0	852.0	1697.0	0.0	3000.0	17516.0	
	Initial	3300.0	17000.0	2900.0	20000.0	1000.0	640.0	6200.0	130.0	20000.0	71170.0	
	SSTL	0.06	17000.0	2900.0	20000.0	1000.0	112.0	1469.0	130.0	20000.0	62701.0	
MW4222	Initial > SSTL	3210.0	0.0	0.0	0.0	0.0	528.0	4731.0	0.0	0.0	8469.0	A2%
1	Subsequent	5700.0	12000.0	880.0	23000.0	50.0	0.066	3600.0	2000	5000.0	51720.0	
_	SSTL	90.0	17000.0	2900.0	20000.0	1000.0	112.0	1469.0	130.0	20000.0	62701.0	
	Subsequent > SSTL	5610.0	0.0	0.0	3000.0	0.0	878.0	2131.0	370.0	0.0	11989.0	
	initial	4200.0	16000.0	880.0	19000.0	120.0	1100.0	5900.0	500.0	5000.0	52700.0	
	SSTL	72.0	14880.0	3700.0	21680.0	33368.0	100.0	1279.0	359.0	38475.0	113913.0	
MW.23	Initial > SSTL	4128.0	1120.0	0.0	0.0	0.0	1000.0	4621.0	141.0	0.0	11010.0	***
C7-AAIM	Subsequent	4200.0	16000.0	0'088	19000.0	120.0	1100.0	5900.0	900.0	5000.0	52700.0	80
	SSTL	72.0	14880.0	3700.0	21680.0	33368.0	100.0	1279.0	359.0	38475.0	113913.0	
	Subsequent > SSTL	4128.0	1120.0	0.0	0.0	0.0	1000.0	4621.0	141.0	0.0	11010.0	
	Initial	5000.0	3000.0	1900.0	23000.0	5000.0	2000.0	1000001	10000.0	1000001	252900.0	
	SSTL	104.0	3000.0	1900.0	23000.0	5000.0	121.0	1612.0	415.0	60494.0	95646.0	
MW.25	Initial > SSTL	4896.0	0.0	0.0	0.0	0.0	4879.0	98388.0	9585.0	39506.0	157254.0	100%
	Subseduent										0.0	
	SSTL	<u>\$</u>	3000	1900.0	23000.0	5000.0	121.0	1612.0	415.0	60494.0	95646.0	
	Subsequent > SSTL										0.0	

.

						Table 3						
	Facility Name: Address:		Han.	Handy Pantry #65 / University Mart & Clouds Chevron 2367 Taylor Street Columbia, South Carolina	niversity Mai xt Columbia,	t & Clouds Ch South Caroling	evron a			Crawford	USI Crawford Project No.	0/584 / 0/ / / / 12352 7.0547
				SH	te Specific	Site Specific Target Level Summary	rel Summa	ary				
:Qi IJəM	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	
	Initial	57.0	90.0	520.0	250.0	12.0	210.0	510.0	50.0	500.0	2199.0	
	SSTL	51.0	0.06	520.0	250.0	12.0	210.0	510.0	50.0	500.0	2193.0	
MAY 24	Initial > SSTL	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	80087%
2	Subsequent	5.5	200.0	320.0	4400.0	1.0	1300.0	170.0	10.0	100.0	6508.5	W Jones
	SSTL	51.0	90.0	520.0	250.0	12.0	210.0	510.0	50.0	500.0	2193.0	**
	Subsequent > SSTL	0.0	110.0	0.0	4150.0	0.0	1090.0	0.0	0.0	0.0	5350.0	
	Initial	520.0	7200.0	1500.0	7200.0	500.0	410.0	3200.0	1000.0	10000.0	31530.0	
	SSTL	53.0	7200.0	1500.0	7200.0	500.0	410.0	1136.0	1000.0	10000.0	28999.0	
PERSONAL DOG	Initial > SSTL	467.0	0.0	0.0	0.0	0.0	0.0	2064.0	0.0	0.0	2531.0	7028
3	Subsequent	560.0	5200.0	2500.0	0.0069	50.0	670.0	4100.0	500.0	5000.0	25480.0	200
	SSTL	53.0	7200.0	1500.0	7200.0	500.0	410.0	1136.0	1000.0	10000.0	28999.0	
	Subsequent > SSTL	507.0	0.0	1000.0	0.0	0.0	260.0	2964.0	0.0	0.0	4731.0	
	Initial	4400.0	2000.0	1700.0	3500.0	300.0	580.0	5300.0	51.0	5000.0	22831.0	
	TLSS	96.0	2000.0	1700.0	3500.0	300.0	542.0	1181.0	51.0	5000.0	14330.0	
10 VA	Initial > SSTL	4344.0	0.0	0.0	0.0	0.0	38.0	4119.0	0.0	0.0	8501.0	.57%
C2-AAIA	Subsequent	3700.0	4300.0	2000.0	6200.0	160.0	550.0	5600.0	54.0	5000.0	27564.0	8
	SSTL	26.0	2000.0	1700.0	3500.0	300.0	542.0	1181.0	51.0	5000.0	14330.0	
	Subsequent > SSTL	3644.0	2300.0	300.0	2700.0	0.0	8.0	4419.0	3.0	0.0	13374.0	
	initial	240.0	34.0	270.0	240.0	11.0	220.0	850.0	20.0	44.0	1959.0	
	SSTL	0.06	34.0	270.0	240.0	11.0	220.0	850.0	50.0	44.0	1809.0	
MMA. 27	Initial > SSTL	150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.0	%8%
	Subsequent	1.0	1.0	1.0	Ö.	1.0	3.7	100.0	10.0	100.0	218.7	3
	SSTL	90.0	34.0	270.0	240.0	11.0	220.0	850.0	20.0	44.0	1809.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.0	56.0	
	Initial	13.0	1300.0	460.0	4200.0	250.0	330.0	5000.0	500.0	5000.0	17053.0	
	SSTL	13.0	1300.0	460.0	4200.0	250.0	330.0	1607.0	500.0	5000.0	13860.0	
MM.30	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	3393.0	00	0.0	3393.0	7007
3	Subseduent	0.	3.2	2.2	14.0	1.0	3.3	100.0	0.0	100.0	234.7	2
	SSTL	13.0	1300.0	460.0	4200.0	250.0	330.0	1607.0	200.0	5000.0	13660.0	
	Subsequent > SSTL	0.0	0.0	0.0	0:0	0.0	0.0	0.0	0.0	0.0	0.0	
	Initial	290.0	2900.0	650.0	7100.0	500.0	530.0	10000.0	1000.0	10000.0	32970.0	
	SSTL	113.0	2800.0	650.0	7100.0	200.0	530.0	1876.0	1000.0	10000.0	24669.0	
MW 40	initial > SSTL	177.0	0.0	0.0	0.0	0.0	0.0	8124.0	0.0	0.0	8301.0	,001 ,001
2	Subsequent	5.8	14.0	2.0	580.0	1.0	24.0	100.0	10.0	100.0	836.8	3
	SSTL	113.0	2900.0	650.0	7100.0	500.0	530.0	1876.0	1000.0	10000.0	24669.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	initial	260.0	1000.0	1100.0	1000.0	1000.0	420.0	20000.0	2000.0	20000.0	46780.0	
	SSLL	257.0	1000.0	1100.0	1000.0	1000.0	420.0	3234.0	2000.0	20000.0	30011.0	
140.44	Initial > SSTL	3.0	0.0	0.0	0.0	0.0	0.0	16766.0	0.0	0.0	16769.0	100%
i A	Subsequent	1.0	1.0	1.0	1.0	1.0	5.0	100.0	10.0	100.0	220.0	3
	SSTL	257.0	1000.0	1100.0	1000.0	1000.0	420.0	3234.0	2000.0	20000.0	30011.0	
	Subsequent > SSTL	00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

						Tahle 3						
	Facility Name:		Hano,	Handy Pantry #65 / University Mart & Clouds Chevron	niversity Mar	t & Clouds Che	evron				UST	07584 / 07777 / 12352
	Seginge		•	Site Specific Target Lev	to Specific	near Columbia, South Carolina Site Specific Target Level Summary	r el Summa	ary		Cawada	Crawing Project No.	450.7
Well ID:	ltem	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	
	Initial	5.0	5.0	5.0	5.0	5.0	5.0	100.0	10.0	100.0	240.0	
	SSTL	5.0	5.0	5.0	5.0	5.0	5.0	110.0	2.0	14.0	156.0	
MW-54	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	86.0	94.0	-1%
	Subseduent	1.0	1.0	1.0	1.0	9.6	5.0	100.0	6.7	100.0	225.3	2
	SSTL	5.0	5.0	5.0	5.0	5.0	5.0	110.0	2.0	14.0	156.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	4.6	0.0	0.0	4.7	86.0	95.3	
	Initial	4.8	25.0	20.0	25.0	93.0	11.0	1800.0	15.0	100.0	2093.8	
	SSTL	4.8	25.0	20.0	25.0	51.0	11.0	279.0	15.0	100.0	530.8	
MANAGE	Initial > SSTL	0.0	0.0	0.0	0.0	42.0	0.0	1521.0	0.0	0.0	0.0	A touch and
OC-AAIAI	Subsequent					Abandoned	pe					Apandoned
	SSTL	4.8	25.0	20.0	25.0	51.0	11.0	279.0	15.0	100.0	530.8	
	Subsequent > SSTL					Abandoned	pa.					
	Initial	420.0	398.0	234.0	262.0	16.4	168.0	648.0	50.0	500.0	2696.4	
	SSTL	326.0	398.0	234.0	262.0	16.4	168.0	648.0	20.0	500.0	2602.4	
MAN RE	Initial > SSTL	94.0	0.0	0.0	0.0	0.0	0.0	l	0.0	0.0	0.0	fleating to 1 and
20-AAIA	Subsequent				Una	Unable to Locate - Paved Over	Paved Ove	l. I				Onable to Locate
	SSTL	326.0	398.0	234.0	262.0	16.4	168.0	648.0	50.0	500.0	2602.4	
_	Subsequent > SSTL				Une	Unable to Locate - Paved Over	Paved Over	١. ا				
	Initial	9200.0	1000.0	1400.0	4400.0	160.0	810.0		1000.0	10000.0	29270.0	
	SSTL	83.0	1000.0	1400.0	4400.0	160.0	108.0	1300.0	381.0	10000.0	18832.0	
AMA, KAD	Initial > SSTL	9117.0	0.0	0.0	0.0	0.0	702.0	0.0	619.0	0.0	10438.0	70300
170-AA161	Subsequent	12000.0	13000.0	2400.0	13000.0	70.0	1000.0	5000.0	160.0	5000.0	51630.0	%ca>-
	SSTL	83.0	1000.0	1400.0	4400.0	160.0	108.0	1300.0	381.0	10000.0	18832.0	
	Subsequent > SSTL	11917.0	12000.0	1000.0	8600.0	0.0	892.0	3700.0	0.0	0.0	38109.0	
	Initial	460.0	3400.0	320.0	9200.0	50.0	250.0	710.0	200.0	2000.0	19890.0	
	SST.	58.0	11928.0	3700.0	21680.0	290.0	19298.0	1114.0	330.0	29344.0	87742.0	
DW.1P	initial > SSTL	402.0	0.0	0.0	0.0	0.0	0.0	0.0	170.0	0.0	572.0	80
	Subseduent	460.0	3400.0	320.0	9200.0	50.0	250.0	710.0	200.0	5000.0	19890.0	200
	SSTL	58.0	11928.0	3700.0	21680.0	290.0	19298.0	1114.0	330.0	29344.0	87742.0	
	Subsequent > SSTL	402.0	0.0	0.0	0.0	0.0	0.0	0.0	170.0	0.0	572.0	
	Initial	2600.0	19000.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	61020.0	
	SSTL	45.0	8470.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	47935.0	
DW-3	Initial > SSTL	2555.0	10530.0	0.0	0.0	0.0	0.0	0.0	00	00	13085.0	-193%
	Supsequent	3600.0	22000.0	3700.0	17000.0	980.0	0.00	10000.0	0.085	200000	69460.0	
•	Subsequent > SSTI	9755.0	13530.0	1500.0	70000	2000	160.0	2000 2000 2000 2000 2000 2000 2000 200	2000	0.000	38345.0	
	Initial	130.0	2.8	23.0	38.0	17.0	8.5	340.0	2,0	25.6	580.0	
	SSTL	5.0	2.8	23.0	36.0	17.0	6.5	240.0	2.6	23.0	355.9	
-	Initial > SSTL	125.0	0.0	0.0	0.0	0.0	0.0	100.0	8	0.0	225.0	
- A	Subsequent	180.0	8.4	30.0	53.0	42.0	6.5	350.0	9.5	100.0	779.4	% 292
	SSTL	5.0	2.8	23.0	36.0	17.0	6.5	240.0	2.6	23.0	355.9	
	Subsequent > SSTL	175.0	5.6	0.7	17.0	25.0	0.0	110.0	6.9	0.77	423.5	
SSTL = SI	SSTL = Site Specific Target Level										Initial>SSTL	SSTL 421858.00
RBSL= Ris	RBSL= Risk Based Screening Level MfBE= Methvl Tert-Butvl Ether	vels					CHAWFORD				Subsequent>SSTL COC Reduction	nt>SSTL 197041.20
n/a = not applicable	pplicable						BERVICES	8				
0.0 - Exclu	0.0 - Excluded from Calculations	-										

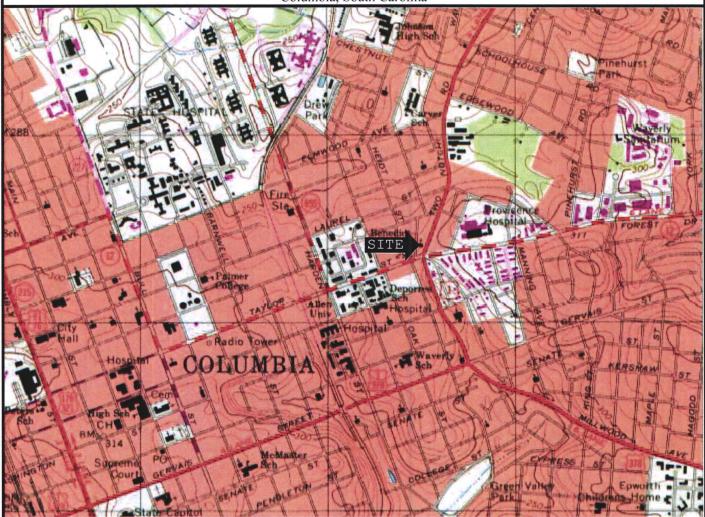
# **Figures**

Figure 1: Topographic Map Figure 2: Site Facility Base Map Figure 3: Chemicals of Concern Map Figure 4: Groundwater Elevation Map



## FIGURE 1

Site Location Map
Handy Pantry #65 / University Mart / Clouds Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina



#### CRAWFORD ENVIRONMENTAL SERVICES

15 Church Avenue, SW Roanoke Virginia, 24011

540-343-6256 (office) 540-343-6259 (fax)

## NORTH COLUMBIA, SOUTH CAROLINA

Source:

U.S.G.S. Topographic Map of the Columbia North Quadrangle, Virginia,

7.5 Minute Series (1977, revised 1988) 1,000 Contour Interval: 20 Feet tum: National Geodetic Vertical

Scale: 1:24,000 Contour Inter Vertical Datum: National Geo Datum 1929

Horizontal Datum: North American Datum1927

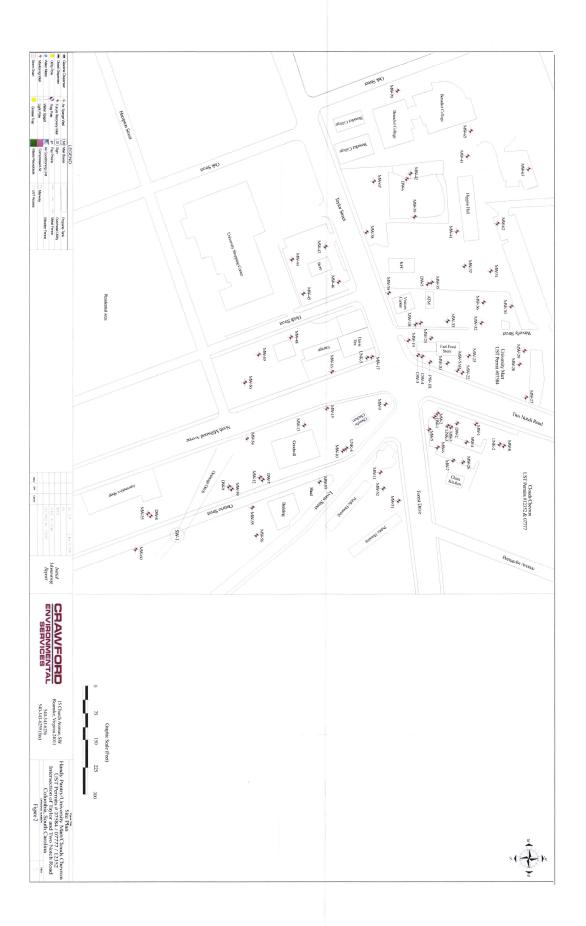
Project: Initial Monitoring Report

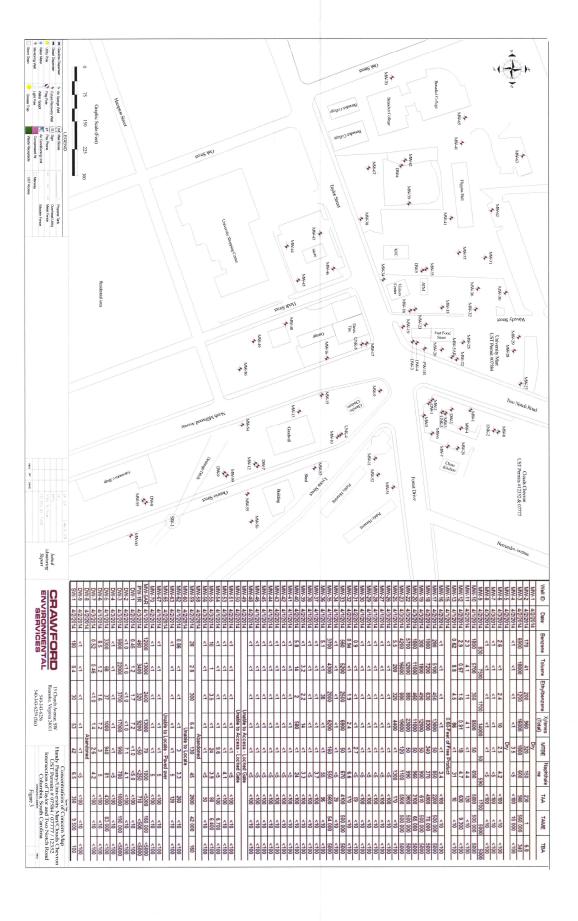
Client: SCDHEC

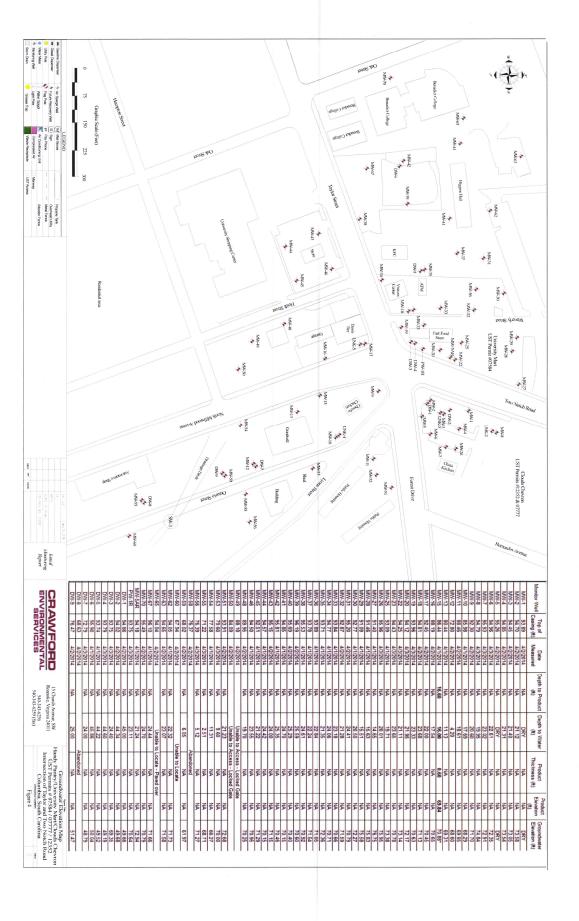
CES Job #: 7.0547



Latitude: 034"00'42.72"N Longitude: 081"01'00.13"W







May 16, 2014

Site ID: 07584/07777/12352

Mr. John Bryant
State of South Carolina
Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

RE: Corrective Action Plan Implementation

Handy Pantry #65/University Mart & Cloud's Chevron Intersection of Taylor Street and Two Notch Road

Columbia, South Carolina

UST Permit # 07584 / 07777 / 12352

Dear Mr. Bryant:

Enclosed please find one copy of the *Corrective Action Plan* Implementation (CAP-IMP) prepared by Crawford Environmental Services, Inc. (CES) for the referenced site. Should you have any questions regarding the enclosed material, or if additional information is required, please feel free to contact me or Charlie Crawford at 540.343.6256.

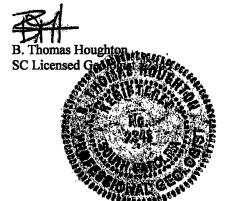
Best Regards,

Daniel J. Fisher

Y. Tale

Division Manager

cc:





### CORRECTIVE ACTION PLAN IMPLEMENTATION

Handy Pantry #65/University Mart & Cloud's Chevron Intersection of Taylor Street and Two Notch Road Columbia, South Carolina UST Permit # 07584 / 07777 / 12352

### **Submitted To:**

Mr. John Bryant
State of South Carolina
Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

### Prepared For:

Mr. John Bryant
State of South Carolina
Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

May 16, 2014 CES Job Number: 7.0547

Prepared By:

Daniel J. Fisher Division Manager Reviewed By:

Charles F. Crawford

**President** 

Approved By:

B. Thomas Houghton Licensed Good is #





### **TABLE OF CONTENTS**

EXE	CUTIVE	SUMMARYi									
1.0	INTRO	DUCTION1									
	1.1	Site Description1									
	1.2	Adjacent Properties									
	1.3	Topography2									
2.0	REME	DIATION SYSTEM DESIGN2									
	2.1	Re-Activation of Existing Remedial Components									
3.0	FUTUE	RE REMEDIAL ACTIVITIES3									
	3.1	Surfactant Enhanced Recovery Events									
	3.2	Chemical Oxidation 3									
		Biological Injections4									
4.0		FORING SCHEDULES									
4.0	4.1	Remedial Monitoring Schedule 4									
- 0		•									
5.0	SUMM	ARY AND RECOMMENDATIONS5									
		LIST OF TABLES									
	Table 1.	Summer and Adian aut Duran aution									
	Table 1. Table 2.	Summary of Adjacent Properties									
		LIST OF APPENDICES									
	Figures Figure 1	. Site Location									
	Figure 2										
	Figure 3										
	Figure 4										
	Appendi										
	Appendi	x B. Well Completion Logs									



### SIGNATURE/CERTIFICATION PAGE

### Prepared By:

Name:

Daniel J. Fisher, Division Manager

Signature:

7 4

### **Reviewed By:**

As a registered geologist, I certify that I am a qualified groundwater professional, as defined by the South Carolina Board of Registration for Geologists. All off the information in this plan and in all of the attachments is true, accurate, complete, and in accordance with applicable State Rules and Regulations.

Name:

B. Thomas Houghton, P.G. – SC Licensed Geologist #23

Signature:

Approved By:

I certify that I have prepared or supervised preparation of the attached report, the state been prepared in accordance with industry practices and standards, and that the information contained herein is truthful and accurate to the best of my knowledge.

Name:

Charles F. Crawford III - President

Signature:

Company:

Crawford Environmental Services, Inc.

15 Church Avenue, SW Roanoke, Virginia 24011 (540) 343-6256 [phone] (540) 343-6259 [facsimile]



#### 1.0 INTRODUCTION

On behalf of the South Carolina Department of Health and Environmental Control (SCDHEC), Crawford Environmental Services, Inc. (CES) has prepared a Corrective Action Plan Implementation (CAP-IMP) report for the Handy Pantry #65/University Mart and Cloud's Chevron properties located proximal to the intersection of Two Notch Road and Taylor Street in Columbia, South Carolina.

### 1.1 Site Description

The subject property is located in a primarily commercial area of Columbia, South Carolina (Figure 1). The subject sites, operating as Handy Pantry #65/University Mart and former Cloud's Chevron, is bordered by light commercial properties in all directions. A site plan depicting pertinent features of the subject property is provided as Figure 2.

### 1.2 Adjacent Properties

As part of CAP development activities, CES reviewed the applicable tax maps for the site and surrounding area. Properties maintaining the presence of monitoring wells and/or those with confirmed petroleum releases are presented in Table 1. A copy of the tax map with the corresponding tax map number is included as Figure 3.

Table 1.

Summary of Adjacent Properties

Tax Map#	LD.#	Owner Name	Address			
R11412-10-16	1	Mr. Mahesh Patel	2367 Taylor Street, Columbia, SC			
R11412-09- 014A	2	Mr. Andrew Diggins	1600 Block Two Notch Road, Columbia, SC			
R11412-09-13	3	Mr. Andrew Diggins	1600 Block Two Notch Road, Columbia, SC			
R11411-02-01	4.5	Ms. Bette Gordon Bateman & Mr. John Bateman	2436 Taylor Street, Columbia, SC			
R11411-01-02	5	2368 Taylor Street LLC.	2368 Taylor Street, Columbia, SC			
R11411-01-03	6	2368 Taylor Street LLC.	1512 Heidt Street, Columbia, SC			
R11411-01-01	7	Chang Moon Sueng	2358 Taylor Street, Columbia, SC			
R11408-10-31	. 8	Mr. Soloman Addico	2361 Taylor Street, Columbia, SC			
R11408-10-30	9	Mr. Soloman Addico	1613 Waverly Street, Columbia, SC			
R11408-10-29	10	Mr. Soloman Addico	1617 Waverly Street, Columbia, SC			
R11407-06-01	11	Mr. Soloman Addico	1616 Oak Street, Columbia, SC			
R11407-06-03	12	Mr. Soloman Addico	1604 Oak Street, Columbia, SC			
R11407-06-02	13	Mr. Soloman Addico	2305 Taylor Street, Columbia, SC			
R11408-10-12	14	Allen University	2315 Taylor Street, Columbia, SC			
R11408-10-31	15	Sylvan Food Systems, Inc.	2349 Taylor Street, Columbia, SC			
R11411-03-01	16	Ms. Linda Warren	1527 Lyon Street, Columbia, SC			
R11411-03-02	17	Ms. Linda Warren	1510 Lyon Street, Columbia, SC			



Table 1 (Cont'd).

### **Summary of Adjacent Properties**

Tax Map #	I.D. #	Owner Name	Address
R11411-04-01	18	Gilbert Walker	1505 Garden Plaza, Columbia, SC
R11411-02-02	19	1500 Millwood Ave LLC.	1527 Ontario Street, Columbia, SC
R11411-02-03	20	John M. Suddeth	Ontario Street, Columbia SC
R11407-07-02	21	Fung Lau	2324 Taylor Street, Columbia, SC

### 1.3 Topography

The subject site is located within the jurisdictional limits of Richland County, South Carolina and is situated within the Piedmont Physiographic Province. According to the U.S. Geological Survey 7.5 Minute Series Topographic Map of the North Columbia Quadrangle, South Carolina, the site elevation is approximately 293.0 feet above mean sea level.

#### 2.0 REMEDIATION SYSTEM DESIGN

In accordance with the CAP dated March 21, 2014, CES performed maintenance activities on the three existing remedial systems (Shed 1, Shed 2, and Shed 3) located at the subject site to facilitate continued remediation via air sparging (AS) and soil vapor extraction (SVE). Details of the activities are provided below;

### 2.1 Re-Activation of Existing Remedial Components

CES mobilized to the subject site on April 18, 2014 to perform site cleaning, inspections of the remedial systems, and to secure the remedial systems. Approximately 15-cubic yards of debris was removed from the areas proximal to remedial sheds #1 and #3. Following clearing operations, the sheds were secured and the above ground piping was inspected for signs of failure. CES remobilized to the subject site on May 5, 2014 with an Atlas Copco Certified Compressor Technician to perform routine maintenance of the AS compressors located at remedial sheds #1, #2, and #3. Each compressor had a full service including; replacement of lubricants, filters, and drive belts. Following receipt of the notice to proceed on May 8, 2014, CES placed the remedial system back into operation on May 16, 2014. Due to the elevated temperatures during the summer months, CES has programmed the remedial systems to operate between 8:00 PM and 8:00 AM. The air sparge compressors have been initially set to delivery 2.5 cubic feet per minute (CFM) to each of the 58 on- and off-site air sparge wells. The existing soil vapor extraction units were inspected for proper operation and set to operate in conjunction with the air sparging. CES will conduct weekly visits of the air sparge / SVE systems for the first three months of operation to ensure proper operation. Photo-documentation of the CAP-IMP activities are included as Appendix A. Existing air sparge well completions logs are included as Appendix B with their corresponding locations shown on Figure 4.



#### 3.0 FUTURE REMEDIAL ACTIVITIES

Following approximately one quarter of operation of the existing remedial systems, CES will evaluate site data to determine if additional remedial activities are warranted. Proposed additional remedial measures are presented below;

### 3.1 Surfactant Enhanced Recovery Events

Should site conditions indicate the presence of free-phase petroleum, CES will mobilize to the subject site and install a maximum of six free-product recovery wells. Eight-inch diameter soil borings will be installed utilizing hollow-stem auger techniques to facilitate the construction of six, four-inch recovery / injection wells. Each recovery / injection point will be installed to approximately 35.0 feet below ground surface (bgs). Recovery / injection wells will be equipped with screened intervals from approximately two feet above source area contaminants to the terminal depth of the boring. Each recovery / injection point will maintain an estimated eight-inch diameter waterproof manway installed within an estimated two foot by two foot concrete pad. Proposed recovery / injection point locations are presented on Figure 4.

Following installation of the injections wells, CES will mobilize to the site with remedial injection equipment and approximately 60-gallons of PetroSolv Surfactant (PetroSolv). CES will mix a 3.0% surfactant solution utilizing approximately 50-gallons of PetroSolv and approximately 600-gallons of potable water (acquired on-site). Over an estimated period of one to three days, CES will inject approximately 660-gallons of surfactant solution to injection points IW-1, IW-2, IW-3, IW-4, IW-5, and IW-6. During these injection events, CES will utilize a surge block to actively pressurize the surfactant solution into the formation creating direct contact with the free- and adsorbed-phase compounds. Following completion of the injection activities, CES will utilize a vacuum truck to extract approximately 150-gallons of petroleum impacted groundwater from each of the referenced injection wells.

#### 3.2 Chemical Oxidation

Following achievement of the 60% concentrations of concern (COC) milestone, CES proposes to use a dilute Fenton's reagent process at the subject site to oxidize adsorbed- and dissolved-phase petroleum constituents in the subsurface. The Fenton's reagent process utilizes a metal catalyst (ferrous sulfate) and hydrogen peroxide to produce hydroxyl radicals. These hydroxyl radicals rapidly oxidize petroleum hydrocarbons upon contact, ultimately producing by-products of carbon dioxide, water, and dissolved oxygen. Residual petroleum hydrocarbon mass and simple organic acids usually remain after the chemical oxidation process but can be treated with biological amendments. Fenton's reagent process is shown in the following steps:

(1) 
$$Fe^{2+} + H_2O_2 \rightarrow Fe^{3+} + OH \cdot + OH^-$$
  
(2)  $Fe^{3+} + H_2O_2 \rightarrow Fe^{2+} + OOH \cdot + H^+$ 

The hydrogen peroxide will be injected into the estimated 58 existing air-sparge wells utilizing the existing piping as subsurface conveyance conduits. The six recovery / injection wells referenced in



Section 3.1 also will be utilized for the injection of hydrogen peroxide on an as needed basis. The injection events will be performed episodically until an approximate COC reduction of 75-80% is achieved. CES estimates that each ChemOx injection event can be completed in approximately one to two weeks, however, the duration of these events will be controlled by the site's ability to sustain the desired rates of injection. CES estimates that approximately 3,000-gallons of 5.0% hydrogen peroxide solution will be utilized at the subject site.

### 3.3 Biological Injections

Directly following the final ChemOx injection, the holding tank will be cleansed prior to the introduction of bacteria and nutrient-amended water. CES will utilize the PetroBacTM product bundle which contains a TPH Bacterial Consortium and Enzyme Accelerator. The NutriMaxTM nutrient mix also will be utilized to increase biological degradation of the hydrocarbon mass at the site. Over the course of an estimated three to five days, CES will inject approximately 1,000 lbs. of CBN nutrients and approximately 20 gallons of A2 bacteria mixed with an estimated 3,500-gallons of potable water. The biological amendments will be gravity fed to the injection points in order to facilitate physical contact with the adsorbed-phase compounds. The amendments will react with the residual TPH mass to produce carbon dioxide and water as by-products.

### 4.0 MONITORING SCHEDULES

### 4.1 Remedial Monitoring Schedule

The remedial operation and monitoring (O & M) schedule presented below has been developed to assess the overall effectiveness and operating efficiency of the implemented remedial techniques. Table 2 is a summary of the O & M schedule for the corrective action efforts to be implemented at the subject sites in Columbia, South Carolina.

Table 2.

Summary of Remedial Operation & Monitoring Schedule

Location	Frequency	Parameters	Methods	Media
SVE and system components	Weekly inspections for first month; bi- monthly thereafter	N/A	Routine system O&M	N/A
SVE vapor effluents	Weekly inspections for first month; bi- monthly thereafter	ТРН	PID	Vapor
On- and Off-site Monitoring Wells	Semi-Annually from the Date of the CAP-IMP Report	BTEX, Naphthalene, MTBE, TAA, TAME, TBA.	8260B, 8260-OXY	Groundwater



### 4.2 Post-Operational Schedule

Following achievement of the third interim Chemical of Concern (CoC) concentration goal for 30 consecutive days, CES will complete two quarters of post corrective action monitoring to ensure that dissolved-phase endpoints have been maintained. Upon verification of endpoint maintenance for two consecutive quarters, CES will mobilize to the subject site to remove/abandon all assessment and corrective action equipment. This process will include removal of the injection equipment and abandonment of all on- and off-site monitoring/injection wells.

### 5.0 SUMMARY AND RECOMMENDATIONS

During the first quarter of CAP implementation, the existing remedial systems were re-activated on May 16, 2014. CES is currently scheduled to mobilize to the subject site weekly to perform system inspections to ensure proper operation. This CAP-IMP is being submitted to Mr. John Bryant of the South Carolina Department of Health and Environmental Control UST Management Department.



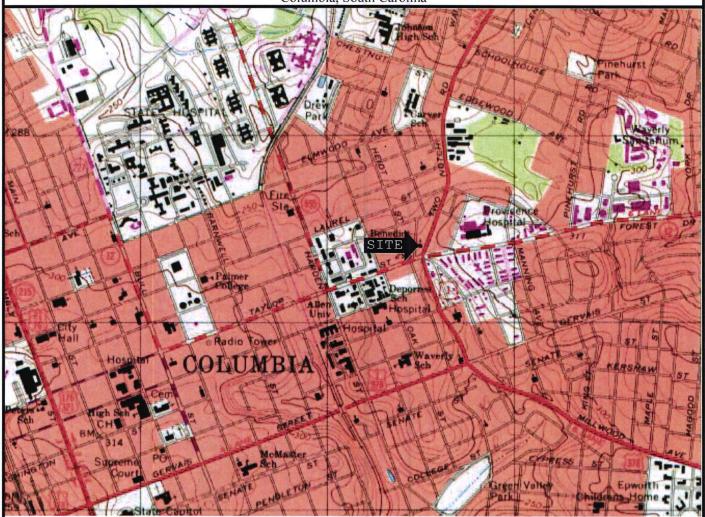
### **Figures**

Figure 1 – Topographic Map
Figure 2 – Site Map
Figure 3 – Tax ID Map
Figure 4 – Injection Point Location Map



### FIGURE 1

Site Location Map
Handy Pantry #65 / University Mart / Clouds Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina



### CRAWFORD ENVIRONMENTAL SERVICES

15 Church Avenue, SW Roanoke Virginia, 24011

540-343-6256 (office) 540-343-6259 (fax)

### NORTH COLUMBIA, SOUTH CAROLINA

Source: U.S.

U.S.G.S. Topographic Map of the Columbia North Quadrangle, Virginia, 7.5 Minute Series (1977, revised 1988)

Scale: 1:24,000 Contour Interval: 20 Feet Vertical Datum: National Geodetic Vertical

Datum 1929

Horizontal Datum: North American Datum1927

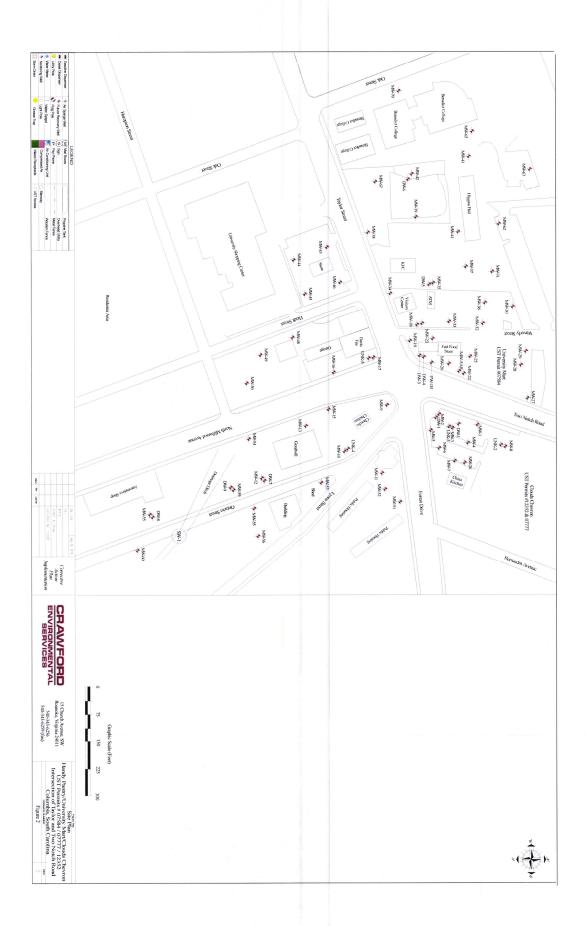
Project: Corrective Action Plan Implementation

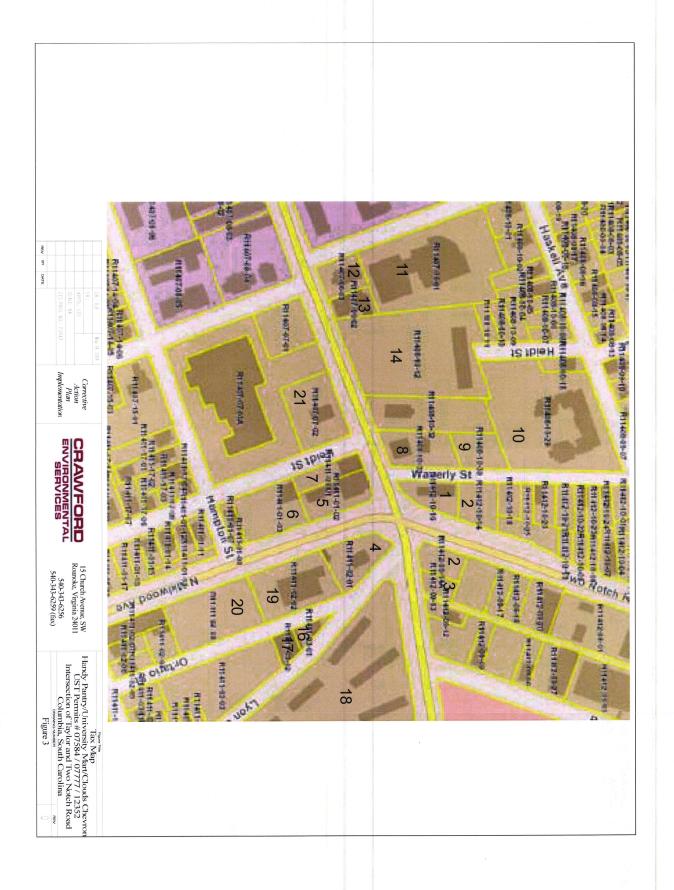
Client: SCDHEC

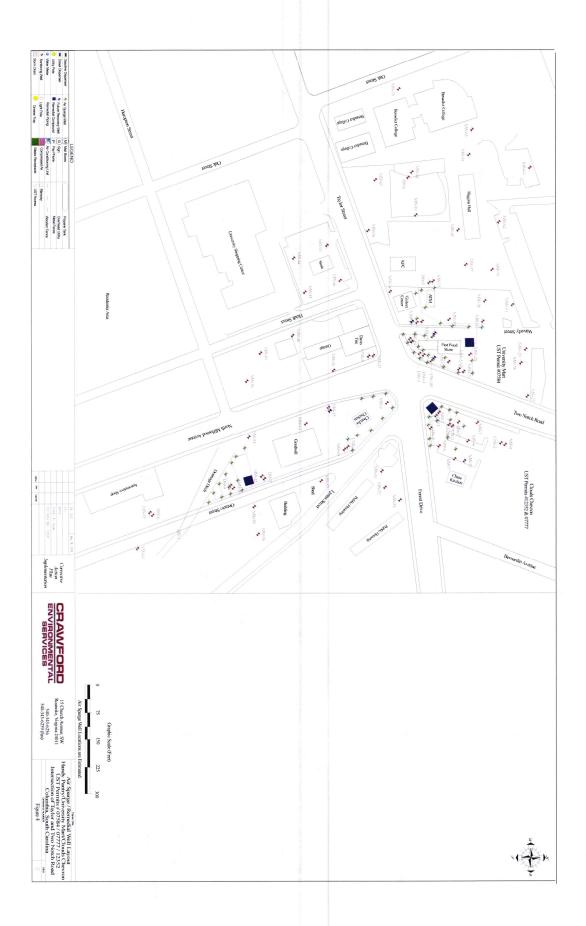
CES Job #: 7.0547



Latitude: 034"00'42.72"N Longitude: 081"01'00.13"W







# Appendix A

Photo-Documentation



### CAP-IMP Photographic Documentation Handy Pantry #65 / University Mart & Clouds Chevron 2367 Taylor Street Columbia, South Carolina 29209 Page 1



Clouds Chevron # 1

View of Remedial Shed #1 following clearing activities.



Clouds Chevron # 2

View of Remedial Manifold at Remedial Shed #1.

### CAP-IMP Photographic Documentation Handy Pantry #65 / University Mart & Clouds Chevron 2367 Taylor Street Columbia, South Carolina 29209 Page 2



Clouds Chevron #3

View of Remedial Shed #3 following clearing activities.



Clouds Chevron #4

View of Remedial Manifold at Remedial Shed #1 prior to repairs.

### Appendix B

Well Completion Records





RECEIVED

Legist	OIR LEGISTEE	TRUSTUS	L							
1. WELL OWNER INFORMATION:					6. PERMIT NU	MBER:	877			
Name:	Palmetto E	Environment (last)	al Group, In	C. (first)				U	INDERGROU TANK PE	ND STORA
Address:	P. O. Box			V	7. USE:					
					Reside	rtial	☐ Public S	upply	Process	<b>.</b>
City:	Elgin	State:	SC	Zip:29045	☐ Irrigatio		☐ Air Cond		☐ Emerge	
Juj.		-mu.	~~	_p.z.v**	☐ Test W		☐ Monitoria	•	Replace	•
Telephone: 1			Home:	<u></u>	8. WELL DEP	TH (completed	)	Date Started:		9/28/2006
2 LOCATIO	N OF WELL:				1					
Name:	•		ud's Chevro			5	, ft.	Date Complete		12/15/2006
Street Add	iress:	2367 Taylo	or St./1600 T	wo Notch	9. Mud Ro	tery	☐Jetted		<b>☑</b> Bored	
					□Dug		☐Air Rota	гу	□Driven	
City:	Columbia,	SC	Zip:		☐Cable T		☐ Other			
ř .	Richland		<u>.</u>		10. CASING:			1		
		Longitude:			Diam.:		1 ^H	Height: Above/	Below	
3. SYSTEM	NAME:	SYSTEM NU	MBER:		Туре:	PVC	☐ Galvanized	Surface		
					J	☐ Steel	☐ Other	Weight		•
4. CUTTING	SAMPLES:	☐ Yes	<b>☑</b> No		0	in. to 45		Drive Shoe?	☐ Yes	No No
						in. to	feet depth	<u></u>		
Geophysic	al Logs:	☐ Yes	<u> </u>		11. SCREEN					
P	mation Pearl	ladina.	Thickness of	Depth to Bettom of	Type: Stat/Gauge	PVC .020		Diam.:	4" 20'	
"	rmation Descri	poon	Stratum	Stratum	Set Between		ft. and 10	Length:	<u> </u>	······
				Su dictiff	1		ft. and	. ft.		
Red/	brown claye	y sand	27'	27'	Sieve Anal	sia	☐ Yes	(please enclose	9)	☑ N
Vallow to	Yellow to gray clayey sand (wet) 18'			45'	12. STATIC W	ATER LEVEL		& Kalauriand .	100000 484- 94 1	Mante
I GROW TO	renow to gray clayey sand (wet) 18. 49			40	13. PUMPING	LEVEL Poku	Land Surface	IL DELOW ISTRO S	urgace after 24 t	
							hrs. Pumping			
		·· <del>·</del>			Pumping T Yield:		☐ Yes	(please enclose		₽ N
					14. WATER Q	UALITY				
					Chemical A	Analysis 🔲	Yes 🛭 No	Bacterial An	alyai[] Yes	No
						iose lab result				
	····				18. ARTIFICIA	L Filter (filti om		Y Yes	□ No 45	ft.
!			[		Effective s		<del>-17</del>	uniformity Coe		r&.
	<del></del>				16. WELL GR	OUTED?	✓ Yes	□ No		
		· · · · · · · · · · · · · · · · · · ·			☑ Neat C	ement 🔲 Sa	ind Cement 🔲	Concrete 🔲 (	Other	<del></del>
I					Depth: Fre	om	10 Possible coi	ft. to	40	
<del> </del>					-1	7.	and some librariant	APT Van Tu		direction
1			]	ŀ		' ¹	unpon comple	etion 171 No	Amount	
					18. PUMP:	Date Installed	unpon compl		Not installed	N
		·-··				•		MIUUM ITU		
					H.P.	VoltsSubmersible	Length of drop □Jet (she		fi. Capacity ☐Turbine	gpn
	<del></del>			<del></del>		Jet (deep)			☐ Centrifu	gei
			<u> </u>		19. WELL DR	LLERE	Robyn Barkley		934	
					Address:	2485 Watson Elgin, SC 290	<b>4</b> 5			
	ater Bearing Zo and sheet if ne									
5. REMARK				·	Telephone		(803)438-1331			
					20. WATER W	ELL CONTRA	CTOR'S CERTI	FICATION: This		under my
					direction and t	his report is tru	e to the best of r	ny knowledge ar	nd belief.	-
<u> </u>					m	1 m	- 60 -			
l					Signed: KN		andery		12/27/2008	
L					Autheri	ned Representative				





**Bureau of Water** 2600 Bull St., Columbia, SC 29201-1708; (803)898-세월001 8 2007

					1			,		<del></del>	
	NER INFORM				S. PERMIT NI	JMBER:	877	7	UNDEHLAROU	ND ST	DRAGE
Name:		(lest)	tal Group, Ind	C. (first)			-		TANK P	OGRA	V
Address:	P. O. Box	427			7. USE:						
					Reside	ntial	☐ Public 8	iupply	Proce	<b>20</b> 3	
City:	Elgin	State:	SC	Zîp:29045	☐ Irrigatio	ın	☐ Air Con	•••	☐ Emer		
-	-	•		<del></del>	☐ Test W	/elt	□Monitori	ing Well		cement	i
Telephone: \			Home:	·	8. WELL DEP	TH (completed	1)	Date Star	led:	9/2	8/2006
	N OF WELL:		sadla 🙉	EF574 :				<b>.</b>			
Name:	•		ud's Chevro		4	45	_ft.	Date Corr			5/2006
Street Add	ress:	230/ 18ylo	ar 30./1600 T	wo Motch	9. Mud Ro	UMIY	☐Jetted		Borec		
AL	Coh	90	72		□Dug	Paol	□Air Rote	u <b>y</b>	□Drive	11	
City:	Columbia, Richland	<b>9</b> U	<b>Zi</b> p:		□Cable 1	Threaded	☐Other ☑Welded	T			
		Longitude:	04 ⁰ 00 07		1	□ inresided	1 ¹¹	Linear A.	ioun/Pol		
					Diam.:	<u></u>		1 -	bove/Below		
3. System i	NAME:	System Nui	MBER:		Type:	☑PVC				-	
4. CUTTING	QAMPI TO	☐ Yes	☑ No	•	┥ ^	☐ Steel	Other			— _{[3}	NI-
a. cu i linu	orarles:	⊔ Y86	MEI NO		1		feet depth	PUAS SUC	e? D Yes	Ø	(DF)
Gonniumia	si i ane	□ Yes	₩ No		11. SCREEN		icer achiu	<del></del>		<del></del>	
COUNTYSIC	en endo	1 <del>0</del> 8		Depth to	Type:	PVC		Diam.:	4"		
For	rmation Descri	ption	*Thickness of	Bettom of	Slot/Gauge	a: 020		Length:	4" 20'		_
ļ.,			Stratum	Stratum	Set Between	en: 1	ft. and 10	_ft.			
Red/r	brown claye	y sand	27'	27'	Sieve Anal		ft. and	_ft. s (please er	iclose)		No.
					12. STATIC V	VATER LEVEL	•				
Yellow to	gray clayey	sand (wet)	18'	45'	42 Million	1120	v Land Surface	ft. below l	and surgace after 2	4 hours	
			[ ]	1			Land Surface hrs. Pumping		G.P.M.		
	· · · · · · · · · · · · · · · · · · ·				Pumping 7		_ nrs. Pumping ☐ Yea	(please e	nciose)		☑ No
			ļ <u>l</u>		Yield:		<del></del>	<del></del>		<del></del>	
		<u></u>			Chemical	Analysis [	i Yes 💟 No	Bacter	ial Analysi□ Yes	No.	3
		_			Please en	close lab result	ts er pack)	[2] V	□ No		
					Installed 6		44	fl. to		ñ.	1
					Effective s			Uniformity	Coefficient		
					16. WELL GR	OUTED?	✓ Yes	□ No			
<del></del>	<del></del>		<b></b>		Depth: Fr		and Cement 🗆	Concrete   ) ft. to	1	40 n.	
					17. NEARES	r source of	POSSIBLE CO	HTAMMAT	ION:	ft.	direction
					1		vpe well disinfed	ted□ Yes	Type:		
			ļ		4.6	Deta land	uпроп comp L:	tetion 🗸	No Amount: Not installe		
					18. PUMP: Mfr. Name		·	Model No		#u <b>F</b> Z	
			<del>                                     </del>		Н.Р	Volts	_ Length of drop	pipe	ft. Capacity		gpm
<del></del>						Submersible	☐Jet (she	illow)	□Turbi		
		į	[ ]	_	19. WELL DR	Jet (deep)	☐Recipro Robyn Barkie		☐Centr	ifugal 34	
						aller: 2486 Watson Eigin, SC 291	1	y wanti N	¥	<del></del>	
	iter Bearing Zo				1		- 10				
<b>a</b> 2	nd sheet if nee				1						
S. REMARKS	S:				Telephone		(803)438-1331		71.	<b></b>	
							ACTOR'S CERTI ue to the best of i		: This well was drill Ige and belief.	eu under	ıτι <b>y</b>
					10	1 M	Barbler				
					Signed: Author	kay Representative		_ Date:	12/27/200	06	





**Bureau of Water** 

1. WELL OW		6. PERMI	T NUMBER:			877			RGROU			AGE			
Name:	Palmetto I	<b>Environment</b>			ŀ						1	TANK PR	OGF	AM	- 1
		(lest)		(first)											_
Address:	P. O. Box	427			7. USE:					_					- 1
						sidential			iblic Sup		•	Z Process			- 1
City:	Elgin	State:	SC .	Zip:29045		gation			r Conditi			☐ Emerge			- 1
						st Well			onitoring	Well	·. · · ·	☐ Replace			_
Telephone: \			Home:		S. WELL	DEPTH (con	rpleted)	!		<b>Pate Started</b>	Ŀ		9/2	28/20	106
2. LOCATIO	N OF WELL:				1										- [
Name:	Handy Pa	ntry #65/Clo				45		ft.		Date Compl			12 <i>/</i>	5/20	06
Street Add	rees:	2367 Taylo	r St./1600 T	wo Notch	S. Ma	d Rotary		□Je	tted			<b>☑</b> Bored			
					□Du	g			r Rotary			□ Driven			- 1
City:	Columbia,	SC	Zîp:		□ □ Ca	bie Tool		□Ot	iher						
COUNTY:	Richland				10. CASI	IG: Thre	eded	Welde	ed .						
Latitude:	34°00.77	Longitude:	81°00.97		Diam.:			10	-	leight: Abo	ve/Bolow	,			ļ
3. SYSTEM		SYSTEM NU		- · · · · · · · · · · · · · · · · · · ·	Type:	<b>☑</b> PVC		☐ Galva	nized S	Surface					- 1
					",	□ Stee		Other		Veight					- 1
4 CHITTING	SAMPLES:	☐ Yes	☑ No	<del></del>	1					Drive Shoe's			· 🗵	No	1
		100	<b>42</b> 140							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_		-	•••	}
Coorbania	al Logs:	□ Yes	<b>☑</b> No		11. SCRE		-		epui [	<del></del>					$\dashv$
Geophysic	ai Lugo.	17 100		Depth to	Type:	PVC			r	Nam :	<b>4</b> ⁿ				
For	rmation Descr	iption	Thickness of	Bottom of	SlottG	nuce:	.020		ī	Diam.: ength:	4" 20'				
			Stratum	Stratum	Set Be	tween:	1	ft. and	10_f						
<b>D</b>			077	-	]			ft. and	1					_	
Kea/	prown claye	y sand	27'	27	Sieve	Analysis IC WATER I			Yes (	please enc	1068)			Z	NO
Yallow to	arev cleves	sand (wet)	18'	45'	12 8 A	WAIERI	"EAET		•	t. below lan	d suman	s affer 24 l	iriu urisi		ł
102000	giaj aajo,	ocara (wow		-10	13. PUM	ING LEVEL	Below	Land Surf	ace	C GOIGHT IQU	4 440 BAC	O 01101 H 1			-
					l	ft. after		hrs. Purr	nping			.M.			- 1
	<del></del>				Pump	ing Test:			] Yes (	please enc	iose)			$\square$	No
					Yield:	R QUALITY	<del></del>	<del></del>							_
					74. WATE	ical Analysis		Ven E	71 No	Derderiei	Anahall	7 Vec	No	A	- 1
	· · · · · · · · · · · · · · · · · · ·				7 199	a analoga lai	and the	. –				1 100	1400	4	- 1
					18. ARTI	FICIAL FILT ed from	ER (filte	r pack)		V Yes		No			ヿ
					Inetal	ed from		44	f	L. to	45		ft.		- 1
					Effect	ive size GROUTED				Iniformity C	cefficier	t			1
					16. WELL	. GROUTED at Cement	77 	Yes	8 4 m	□ No	Other				- 1
						: From	L 381	im Ceilleii	10 6	increase (*)	Oute	40	R.		-
					17. NEAF	EST SOUR	CE OF I	POSSIBL	E CONT	AMINATIO	N:	ft		direc	tion
					1		Ty	pe well dis	sinfected	i□ Yes	Type:				_
								unpon	complet	ion 🗾	No Arr	ount:			
					18. PUM	: Date in	stalled:			Model No.:	No	t installed	M		- 1
	<del></del>		-		Mifr. N H.P.	wme: Volts		Length of			n. c	apacity			pm
						Submer	sible		at (shallo			☐Turbine		·	"
					1	☐ Jet (dec	<b>:p</b> )	□Re	eciproca	ting		☐ Centrift	gal		
*						DRILLER:		Rabyn B	Sarkley (	ERT. NO.	3	934			
					Addre	es: 2485 V	Vatson SC 2904	48							ı
*Indianta 14/	ster Bearing Z	anno Ales			1	erithu' s	- 69U	TÜ							
	ner bekning 2 Ind sheet if ne				Ī										- [
5. REMARK				L	Telen	hone No.:		(803)438	<b>-1331</b>						
				•		R WELL C	ONTRA			CATION:	This well	was drilled	under	my	┪
						and this repo								•	- 1
					1	A			_						- (
						A. I	h	10							
					Signed:		13	arkla	<u> </u>	Date:	12	/27/2006			_ [
					×	utherized Repre	nextinative								



		I NOME OF	<u> </u>		·						
1. WELL OW Name:	<b>MER INFORM</b> Palmetto E	AATION: Environment			6. PERMIT NU	IMBER:	877	•			
		(last)		(first)	2 1/05			<del>,</del>			
Address:	P. O. Box	427			7. USE:	atiei	□ Public S	unniv	Process		
City:	Elgin	State:	SC .	Zip:29045	☐ resider ☐ irrigation			***		☐ Emergency	
Ouy.	enflu i	Juus.			☐ Test We			ng Weli	□ Replace	•	
Telephane: \	Work:		Home:		8. WELL DEP	TH (completed		Date Started:		9/28/	/2006
2. LOCATIO	N OF WELL:								_	4811-	maee
Name:	-	ntry #65/Clou				<u>15</u>	ft.	Date Complete	ed: ✓ Bored	12/15/	/2006
Street Add	iress:	2367 Taylo	or <b>St./160</b> 0 T	WO NOTCH	9.   Mud Ro	owary	□Jetted □Air Rota	ny	☑Driven		
City:	Columbia,	SC	Zip:		☐Cable T	[col	☐Other	<b>"</b> 7	Part Mindle		
	: Richland	, •••	erh.		10. CASING:			Ī			-, -
		Longitude:	81°00.97		Diam.:		1 ⁿ	Height: Above/	Below		
3. SYSTEM		SYSTEM NUI				<b>☑</b> PVC		Surface			
	·				1	☐ Steel	Other	Weight			
4. CUTTING	SAMPLES:	☐ Yes	☑ No		0		feet depth	Drive Shoe?	☐ Yes	☑ N	io o
	and the	<b></b>	T21		46 66	in. to	feet depth	<u> L</u>			
Geophysic	CAI LOGS:	☐ Yes		Donth to	11. SCREEN Type:	PVC		Diam.:	<b>4</b> "		
For	rmation Descri	iption	*Thickness of Stratum	Bottom of	Slot/Gauge			Diam.: Length:	20'		_
<u> </u>			Statilli	Stratum	Set Betwee	en: 1	ft. and 10 ft. and	_ ft.	_		
Red/	brown claye	y sand	27'	27	Steve Anal	ysis	☐ Yes	_ n. _ (please enclos	e)	c	7) No
					12 STATIC W	VATER LEVEL	•				
Tellow to	gray clayey	y sand (wet)	18'	45'	13. PUMPIMA	LEVEL Rom	v Land Surface	n. Delow land (	surgace after 24 i	कताड़	
						ft. after	_ hrs. Pumping		G.P.M.	-	
l					Pumping 1 Yield:	Test:	☐ Yes	s (please enclos	ie)	6	<b>2</b> 1 No
<del> </del>				ļ	14. WATER O	UALITY			<del></del>		<del></del>
				ļ	Chemical /	Analysis [	]Yes ☑ No	Bacterial Ar	nalysi□ Yes	No.Z	
1				ļ	15. ARTIFICIA		er peck)	✓ Yes	□ No	<del></del>	
				ļ ·· ·	Installed fr	ram		ft. to	45	îL.	
	····			ļ	Effective s		✓ Yes	Uniformity Coe	ancierii	<del></del>	
					Neet C	cement 🔲 Si	and Cement 🗆	Concrete	Other		
					Depth: Fr	om Territoria	10 POSSIBLE CO	ft. to	40	IL.	irection
<del> </del>		<del></del>	<del> </del>	<del> </del>			voe well disinfec	ted Yes Ty	ype:	·— "	
<u> </u>			<b></b>	<u> </u>	1		umpon comp	detion 🔽 No	Amount		
1				!	18. PUMP: Mfr. Name		J	Model No.:	ivoi mstalied		
<del>                                     </del>		<del></del>	1		Н.Р	Volts	Length of drop	pipe	ft. Capacity		gpn
	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>		<b>.</b>	<del></del>		Submersible Jet (deep)	□Jet (sha	•	☐Turbine		
L				L	19. WELL DR	ULLER:	Robyn Barkle	y CERT. NO.:	934		
					Address:	2485 Watson Eigin, SC 28					
	ater Bearing Z 2nd sheet if ne				1		<del></del>				
6. REMARK				<u> </u>	Telephone		(803)438-1331				
					20. WATER V	VELL CONTR	ACTOR'S CERT ue to the best of	IFICATION: Th		l under m	ny
					Signed: Pol	m B	abley	_ Date:	12/27/2008	<u> </u>	
L				<del></del>	Author	iziid Representative			<u> </u>	me + 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12	



## **Bureau of Water**

1. WELL OWNER INFORMATION:					6. PERMIT NU	MPEP.	877	,			
1. WELL OW Name:			iai Group, Ind	C. (first)	- PERMIT N		0//				
Address:	P. O. Box	• •		,	7. USE:			· · · · · · · · · · · · · · · · · · ·			
	<del></del>	-			Reside	ntial	☐ Public 8	upply	Process	1	1
City:	Elgin	State:	sc :	Zip:29045	□ imigatio		☐ Air Cond		☐ Emerge		
y·	.—ga 1		- <del>-</del>		☐ Test W			ing Well		•	
Telephone: V			Home:			TH (completed)		Date Started:			/2006
	N OF WELL:	AS-5			7						
Name:		ntry #65/Clo	ud's Chevroi			45	ft.	Date Complete		12/15/	<u> 20</u> 06
Street Add	•		or St./1600 T		9. Mud Ro		□Jetted		Bored		
Ţ		•	•	-	□Dug	·	□Air Rota	л <b>у</b>	□ Driven		
City:	Columbia,	SC	Zip:		☐Cable 1		□Other				
COUNTY:	Richland		•		10. CASING:	☐Threaded	Welded				
Latitude:	34°00.77	Longitude:	81°00.97		Diam.:		<b>1</b> "	Height: Above	/Below		
3. System i		SYSTEM NUI				<b>☑</b> PVC		Surface			
	<del></del>				1	☐ Steel	☐ Other	Weight			
4. CUTTING	SAMPLES:	☐ Yes	✓ No	<del></del>	ገº			Drive Shoe?	☐ Yes	☑ No	0
	1 A	_	-		44	In. to	feet depth	<u>i                                    </u>		<del></del>	
Geophysic	cal Logs:	☐ Yes		Bandle 4a	11. SCREEN			Pierre -	∡n		
E	rmation Descri	ption	Thickness of	Depth to Bottom of	Type: Slot/Gauge	PVC 9: .020	<del>*************************************</del>	Diam.: Length:	<del></del>	<del></del>	
L			Stratum	Stratum	Set Between	en: <u>1</u>	ft. and 10	_ft.			-
Fr		y 555-3	27				ft. and	_ ft.	and the second	-	<b>*</b>
Ked/l	brown claye	y sand	27'	27'	Sleve Anal	iyala VATER LEVEL		s (please enclos	<del>38</del> )		7 No
Yellow to	Yellow to gray clayey sand (wet) 18' 45'			45'	<b>.</b>			ft. below land	surgace after 24 i	rours	-
=======================================						LEVEL Below	Land Surface				
ļ			<del>                                     </del>	L	Pumping 1	TL STOR	_hrs. Pumping	s (please enclos		_	7) No
		i	1	1	Yield:			_ (PIDEST GITTION	~-,	5	Z) No
	**************************************	1			14. WATER C						
				\	Chemical /	Analysis   close lab result	] Yes 🔽 No	Bacterial A	natyst⊡ Yes	No.	
<u>L</u>				!	15. ARTIFICIA	AL FILTER (filte	er pack)	✓ Yes	□ No		
					Installed fr	rom		ft. to	45	ft.	1
				<u> </u>	Effective s	size		Uniformity Coe	emclent		
Ī		ŀ	1	1	IV. WELL GR	<b>COUTED?</b> Cement [] Se	<b>⊘</b> Yes and Cement □	☐ No Concrete ☐	Other		
					Deoth: Fr	rom	10	) fi. to	40	n.	
				<u> </u>	17. NEARES	T SOURCE OF	POSSIBLE CO	NTAMINATION	it.	di	rection
<u> </u>			1		I —		ype well disinfect unpon comp	Maddinin 🔀 No	Amount.		<del></del>
		<del></del>	<del> </del>		18. PUMP:	Date Installed	: unpon comp		Not installed		
			<u></u>	<u></u>	Mfr. Name	<b>9:</b>		Model No.:			
			1	1	H.P.	Volts Submersible	Length of drop		ft. Capacity  Turbine		gpm
		······	1			Submersible   Jet (deep)	□Jet (sha □Recipro		□ l urbine □Centrifu		_
					19. WELL DR	ULLER:	Robyn Barkley		934		
					Address:	2485 Watson Elgin, SC 290					
*Indicate Wa	ater Bearing Zo	ones (Use	1	T	7						
82	2nd sheet if nee			<u> </u>	J						
5. REMARKS	<b>S</b> :		. ——————		Telephone		(803)438-1331				
							ACTOR'S CERTI ue to the best of I		is well was drilled and belief.	under m	y
					1	1 m	1.11		_		1
					Signed: Authori	izga Representative	arrley	Date:	12/27/2006	<u> </u>	
		<del></del>		<del></del>	<del></del>						



8 74 10 14	010 1001001	4 bitters 5-70								
	WELL OWNER INFORMATION: Name: Palmetto Environmental Group, Inc.				e. PERMIT N	JMBER:	877			
Name:	Palmetto E	Environment (last)		C. (firet)						
Address:	P. O. Box			()	7. USE:	· · · · · ·				
					□Reside	ntial	DPublic 8	upply	Process	
City:	Elgin	State:	SC	Zlp:29045	☐ irrigatio	m	☐ Air Cond	•		
					☐ Test W			ng Well	☐ Replace	
Telephone: \			Home:		8. WELL DEF	TH (completed	1)	Date Started:		9/28/2006
	N OF WELL:			- 65314 ··		45	•			451455000
Name:	•	ntry #65/Clo				45	_ ft. 	Date Complete	d:  Bored	12/15/2006
Street Add	irees:	236/ layio	or St./1600 T	WO NOTCH	a. Limus K	Otary	□Jeneo □Air Rota	m.e	Ø Driven	
O%	Columbia,	90	•		☐Cable	Tool	□ Other	ı¥		
City:	Richland	30	Zip:			☐Threaded		T		
		Longitude:	91°00 07		Diam.:	LI IIICALEU	19	Height: Above/	Rainw	
3. SYSTEM		SYSTEM NU		······································	Type:	<b>☑</b> PVC		Surface		
9. 010:E28		310(58) (40)	meret.		туре.	□ Steel	Other	Weight		
4. CUTTING	SAMPLES:	☐ Yes	Z No		1 0	in. to 45		Drive Shoe?		☑ No
						in. to				
Geophysic	al Logs:	☐ Yes	<b>☑</b> No		11. SCREEN					
			*Thickness of	Depth to	Type:	PVC	····	Diam.: Length:	<u>4"</u> 20'	
Fo	rmation Descr	iption	Stratum	Bottom of	Slot/Gaug	en: <u>1</u>	ft. and10	Length:	20'	
		<del> </del>		Stratum	7		ft. and	- ft.		
Red/	brown claye	y sand	27'	27'	Sleve Ana	lyais .	□ Yes	(please enclos	e)	Z N
Vellow in	annu alaum	cond (wot)	18'	45'	12. STATIC V	VATER LEVEL	•	A halamlanda	urgace after 24.f	Leto selá.
1 GHOW TO	gray clayey	sand (wet)	10	40	13. PUMPING	LEVEL BOOK	v Land Surface	IL DEMON ISSTOR	urgace alter 24.1	itania .
			1		l	ft. after	_ hrs. Pumping		G.P.M.	
						Test	☐ Yes	(please enclos	e)	₽ N
				-	Yield: 14. WATER (	JUALITY				
					Chemical	Analysis [	Yes 🔽 No	Bacterial Ar	ualysi⊟ Yes	No
					Please er	ciose lab resul AL FILTER (till	is		□ No	
	<del></del>							Yes ft. to	45	ft.
					Effective:	este		Uniformity Coe	flicient	
					16. WELL GI	ROUTED?	Yes	□ No	Other	
		<del> </del>			Depth: F		and Cement 🔲	ft. to	40	ft.
			1		17. NEARES	TSOURCE OF	POSSIBLE CO	NTAMINATION:	ft.	direction
					]	T	ype well disinfect	led Yes Ty	pe:	· —
<del></del>					18 P) MP-	Date Installed	unpon comp	letion No	Not installed	<del>D</del>
					Mfr. Nam	9:		Model No.:		
					H.P	Volts	Length of drop		ft. Capacity	gpr
						] Submersible ] Jet (deep)	□Jet (she □Recipro	•	☐Turbine ☐Centrifu	
			<u>i</u>		19. WELL DI	ULLER:	Robyn Barkley		934	
					Address:	2485 Watson				
*Indianta IAE	ater Bearing Z	ones (Use			-	Elgin, SC 29	<del>(10</del>			
= 2	and sheet if ne		<u> </u>		_					
5. REMARK	S:				Telephon	e No.:	(803)438-1331	BW/ Design		
Į.							ACTOR'S CERTI ue to the best of:			unger my
1					JUIGORNI WINI	and reholt to th	ne in the pool of	my manage a	tu Pelleis	
1							6 La			
1					Signed:	In 1	Sulley	Date:	12/27/2006	
						rized presentative				



F7400,74	OIR PROTECT	FRUNTER									
1. WELL OW	NER INFORM	FATION:			6. PERMIT NU	MBER:	877			_	
Name:		Environment	el Group. Ind	2.							
1941116.	· williams r	(last)	m arada uu	(first)	1						
Address:	P. O. Box			<b></b>	7. USE:						
Autori.	<del></del>				☐ Resider	rifei	☐ Public 8	ımak	☑ Process	ì	
									_		
City:	Elgin	State:	SC :	Zip:29045	☐ Irrigation		☐ Air Cond	•	□ Emerge		
					☐ Test We	911	□Monitori				
Telephone: \	Work:		Home:		8. WELL DEP	TH (completed	1)	Date Started:		9/2	8/2006
	N OF WELL:				1		-			_	
			مالم المار	- 4014a		•	_	Data Camalai	Amela.	12/4	5/2006
Name:		ntry #65/Clo				5	_ft.	Date Comple		ا 22 ا	UIZUUO
Street Add	lress:	2367 Taylo	or St/1600 T	wo Notch	9. Mud Ro	itary	□Jetted		Bored		
					□Dug		☐Air Rota	ry	□Driven		
City:	Columbia,	SC	Zip:		☐Cable T	'col	□Other				
	Richland	<del>-</del>			10. CASING:	Threaded	Welded	Ī			
	_		04800 03		1		<del></del>	Links About	n/Dolaw		į
Latitude:		Longitude:	87-00.97		Diam.:		<u> </u>	Height: Above			
3. SYSTEM	NAME:	SYSTEM NU	MBER:		Туре:	<b>☑</b> PV6	☐ Gaivanized	Surface			
					1	☐ Steel	☐ Other	Weight		_	
4. CUTTING	CAMPI PO.	☐ Yes	☑ No	<del></del>	1 0			Drive Shoe?		<b>Z</b>	No
T. CUITING	oamples:	LI 168	<u>67</u> 1 kg					LAIVE GIME!	- 1 <b>3</b> 3	تحا	
		_				in. to	feet depth	L			
Geophysic	at Loge:	☐ Yes	₩ No		11. SCREEN				400		
			·Thickness of	Depth to		PVC		Diam.:	<u>4"</u> 20'		
Fo	mation Descri	iption	Thickness of	Bottom of	Slot/Gauge			Length:	20'		
			Stratum	Stratum	Set Betwee	n: <u>1</u>	ft. and10_	ft.			
	_	_			1		ft. and	_ft.			
Red/	brown claye	y sand	27'	27	Sieve Analy		☐ Yes	(please enclo	19e)		No.
	Vellow to gray clayer sand (wat) 18' 45'				12. STATIC W	ATER LEVEL	•				
Yellow to	Yellow to gray clayey sand (wet) 18' 45'			45'				II. below land	surgace after 24	nours	
							v Land Surface				
							_hrs. Pumping		_ G.P.M.		
					Pumping T	est:	☐ Yes	(please encid	19 <del>6</del> )		No No
					Yield:						
					14. WATER Q			B		A. J	
					Chemical /		Yes 🔽 No	Bacteriai /	Aneiysi□ Yes	No	1
ŀ				1		olose lab resul		F21 V			
					16. ARTIFICIA			V Yes	□ No		
f		i	1	Ţ		rom	44	ft. to	45	ft.	
			<b>.</b>	ļ	Effective s		Fd V	Uniformity Co	Jennaeni.	<del></del>	
ł			Ì	Ţ			✓ Yes	□ No	Officer		i
							and Cement 🗆	) fl. to		R.	
l				ļ	Depth: Fn	uni Taringan An	POSSIBLE CO	IL IO			direction
<b></b>	<del></del>		-		I''' NEAREST		F POSSIBLE COI Type well disinfect				un oction)
l			1	1	<b>!</b> ———		LUNDON COMPO		lo Amount:		
<u> </u>		· · · · · ·	<del></del>	<del> </del>	18. PUMP:	Opto Installa	் எம்வ கள்	THE ENGLA	Not installed		
Ī			1	1	Mfr. Name	-aw natakat ''	<del></del>	Model No.:	. TVI II IOIGII DU	لك	
<del></del>		<del></del>	<del>                                     </del>	<del> </del>	H.P.	voits	Length of drop		ft. Capacity		gpm
i			1	1		Submersible	doin io inglien stet (she			, —	— akıı
<del></del>		·	1	<del> </del>		Jet (deep)	☐Recipro		☐ Centrift		1
ŀ			Į į	1	19. WELL DR			V CERT. NO.:			
<del> </del>	<del> </del>		1			2485 Watson					
			1	1		Eigin, SC 29					
Indicate W	eter Bearing Z	ones (Use	T	1	٦						
	and bearing 2 2nd sheet if ne		1	1	I						
		- January	<del> </del>	L	Telephone	No ·	(803)438-1331	1			
5. REMARK	<b>4</b>						ACTORE AREA	FICATION: T	his well was drilled	Imples	my
l										. u:nJUf	••••
ł					meann and	u no reput fis Th	ue to the best of	WINAMORDS	win wollo.		
1					1	//	1-				
1					/h	1 -	R. 11				
1					Signed:	Im	Barkley		12/27/2008	3	<del></del>
1						and Propositative	,				
L						<b>.</b>					



# Bureau of Water

A 10000 - 0000	-	10000			To 922222	******	077				
	MER INFORM		-1.0 :	_	6. PERMIT NU	MBEK	877				
Name:	Palmetto E	Environment (last)	al Group, Ind	(first)						·	
Address:	P. O. Box	427			7. USE:	· · · · · · · · · · · · · · · · · · ·			_		
					Resider	rtial	☐ Public S	upply	✓ Process		
City:	Elgin	State:	SC .	Zip:28045	☐ irrigation	n	☐ Air Cond	iltioning	☐ Emerger	-	ł
_					☐ Test We		☐ Manitori		Replace		
Telephone: \			Home:		8. WELL DEP	TH (complete	d)	Date Started:		9/2	B/2006
	N OF WELL:		rella Characa	-104-		E		Data Carmalata	fir	42141	5/2006
Name:	•		ud's Chevroi		9 1144 8-	5	ft.	Date Complete	xa: ✓ Bored	12/1	JIZUUD
Street Add	ne33:	230/ 18YO	il Ortugur I	MO MOICH	9. Mud Ro	nal y	□Air Rota	n.	<u>w</u> ibored □Driven		
O**	Calumble	60	<b>711</b>			'aal	□Other	n <b>y</b>			
City:	Columbia, Richland	30	Zip:		10. CASING:			T			
'		Carra Maria	04900 07			INGRUEO	1"	Height: Above/	Delow		ŧ
		Longitude:		, <del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	Diam.:	[7] m er		_			1
3. System i	NAME:	SYSTEM NU	MBER:		Type:	☑PVC		Surface			
	OANSHI TO		- Fai	<del></del>	4 ^	☐ Steel	Other	Weight			\.
4. CUTTING	BAMPLES:	☐ Yes	✓ No		1 ——	in. to <u>45</u>	-	Drive Shoe?	i 165		No
Oggante:	ral I ann-	<b>□ v</b>	[72]		44 0000000	in. to	feet depth	<u> </u>			<u> </u>
Geophysia	cal Logs:	☐ Yes		Depth to	11. SCREEN Type:	PVC		Diam.:	4"		
Fo	rmation Descri	ption	Thickness of	Bottom of	Slot/Gauge	.020		Length:	4" 20'		
			Stratum	Stratum	Set Betwee	sn:1	ft. and 10	ft.			
D1"	Agmen -1-		0.31	07			ft. and	īt.	<b>~</b> \		<del></del>
Keal	brown claye	y seno	27'	27'	Sieve Analy 12. STATIC W	ATED I EVE	Yes	s (please enclos	e)		No.
Yellow to	gray clavev	sand (wet)	18'	45'	ł			ft. below land s	surgace after 24 i	iours	
					13. PUMPING	LEVEL Below	w Land Surface				
							_ hrs. Pumping	/alacac varia	G.P.M.		AA-
	- <del>-</del>			 	Pumping T Yield:	SEC	☐ Yes	s (please ancios	<b>14)</b>		₩ No
			<del> </del>	<del>                                     </del>	14. WATER Q						
				<b></b>	Chemicai /	Analysis [	Yes 🔽 No	Bacterial Ar	naiysi⊟ Yes	No	1
					Please en	olose lab resul	ins	- 12 V			
		<del>- · · · · · · · · · · · · · · · · · · ·</del>	<del> </del>	<u> </u>	15. ARTIFICIA	UL FILTER (M OM	es pauk) 44	Yes ft. to	□ No 45	ft.	
				ļ	Effective s	ize		Uniformity Cos			
	·····				16. WELL GR	OUTED?	✓ Yes	☐ No			
				<u> </u>			and Cement	Conorete 🔲 👈	Other	_	
		_	<u> </u>	1	Depth: Fr	OM SOUTHER AS	10 F POSSIBLE CO	ft. to	40 tt	IL.	direction
				<del> </del>	NEARES!		l'ype well disinfect	ted Yes Ty	ype:		
L							unpon comp	letion 🗹 No	Amount:		
						Date Installed	d:	Madel St	Not installed	Z	
	<del></del>			<del></del>	Mfr. Name H.P.	: Volts	Length of drop	_ Model No.:	ft. Capacity		gpm
				L		Submarsible	Lengurordop Jet (sha		_ ii. Capacity Turbine		Shuil
	· · · · · · · · · · · · · · · · · · ·				7 " 5	Jet (deep)	□Recipro	cating	☐ Centrifu	gal	
	<del></del>	····			19. WELL DR		Robyn Barkle	y CERT. NO.:	934	,	
				Į.	Address:	2485 Watson Eigin, 8C 29					
Indicate W	ater Bearing Zo	ones (Use		<del>                                     </del>	1						
	2nd sheet If ne			L	_						
5. REMARK	8:	· · · · · · · · · · · · · · · · · · ·		-	Telephone		(803)438-1331				-
							ACTOR'S CERTI			under	my
} .					gurection and	us report is ti	rue to the best of	my knowledge &	uki delej.		
					h	1 1	h				
ŀ					Stone Va	la 1	Sachlan-	Date:	12/27/2006		
1					Signed: Authorit	raci depresentativ	war wing	* nang: ************************************	ILIKIIZUUU	<del>'</del>	<del></del>
Ļ		<del>v </del>	<del></del>								



	OIR MOTECT										
1. WELL OW	MER INFORM				6. PERMIT NU	IMBER:	877				
Name:	Palmetto E	Environment (lest)	tal Group, Inc	C. (first)							
Address:	P. O. Box	• •	·	• • • •	7. USE:						
					□Residen	ntial	☐ Public St		Process		
City:	Elgin	State:	sc z	Zip:29045	☐ Irrigation		☐ Air Cond	•	☐ Emerge:	•	
-	=		·	,	☐ Test We	'eli	☐ Monitorir	ng Well	□Replace		
Telephone: \			Home:		8. WELL DEP	TH (completed	0	Date Started:	-	9/28	<b>8/2006</b>
	N OF WELL:						_	_		مو	W 45 th
Name:	•		ud's Chevror			45	ft.	Date Complete		12/1	5/2006
Street Add	trees:	2367 Taylo	or St./1600 Tv	wo Notch	9. Mud Ro	ntary	□Jetted	<del></del>	Bored		
	<b>.</b> .				□Dug	34	☐Air Rota	Ty .	Driven		
City:	Columbia,	SC	Zip:		☐Cable T		☐Other ☐				
	Richland		a aRes er		10. CASING:	⊔Threeded	Welded		Mele		
Latitude:					Diam.:		<u> </u>	Height: Above			
2. SYSTEM	NAME:	SYSTEM NU	MBER:	- <del></del>	Туре:	<b>☑</b> PVC	☐ Galvanized	1			
	<u></u>				4	☐ Steel	Other	Weight		- <del> </del>	<b></b>
4. CUTTING	SAMPLES:	☐ Yes	✓ No		0	in. to <u>45</u>		Drive Shoe?	☐ Yes		No
		=	_			in. to	feet depth	1	<del></del>		
Geophysic	eal Logs:	☐ Yes	☑ No		11. SCREEN	DA40		Dia	4"		
	mation Descri	hijon	*Thickness of	Depth to Bottom of	Type: Stot/Gauge	PVC		Diam.: Length:	20'		
ra			Stratum	Stratum	Set Betwee		ft. and 10	ft.			
_					1		fit. and	n.			
Red/	brown claye	y sand	27'	27'	Sieve Analy	yeis VATER LEVEL	☐ Yes	s (please enclos	<del>50</del> )		No.
Yellow to	grav clave	y sand (wet)	18'	45'	IL STATIC W	MICK LEVEL		ft. below land	surgace after 24 !	hours	
. JINOW EU	a, viayo)		<del>                                     </del>			LEVEL Below		191W			
						ft. after	_ hrs. Pumping		G.P.M.		
					Pumping T	rest	☐ Yes	s (please enclos	5 <del>0</del> )	ı	No.
		<u> </u>	<del>                                     </del>		Yield:	UALITY	<del></del>				<u></u>
			<u> </u>		Chemical /	Analysis 🗀	Yes 🛭 No	Bacterial A	knaiysi⊡ Yes	No	1
					Please end	ciose lab result					
			1			AL FILTER (file	ter pack) 44	Y Yes	□ No 45	î.	
f			1	1	Installed in		<del></del>	Uniformity Con			
			1	<del> </del>	18. WELL GR	OUTED?	Yes Yes	☐ No			
		<del></del>	<b></b>	<u> </u>	☐ Neat C	ernent 🗆 St	and Cement 🔲	Concrete 🗆	Other	n.	
					Depth: Fro		10 POSSIBLE CO	) ft. to			direction
		-	<del>                                     </del>	<del></del>	T WEAKER		ype well disinfect	ted Yes T	ype:		
		<del></del>	<u> </u>				amnon commi		o Amount:		
		· · · · · · · · · · · · · · · · · · ·			18. PUMP:	Date installed	#		Not installed	2	
	****		<del> </del>	<u> </u>	Mfr. Name H.P.	e: Volts	Length of drop	Model No.:	ft. Capacity		gpn
L_						Submersible		allow)	□Turbine		0711
						Jet (deep)	□Recipro	ocating	☐ Centrifu	ugal	
		<del></del>	<b></b>	<u> </u>	19. WELL DR	ULLER: 2485 Watson		y CERT. NO.:	934	*	_
			1	1	rataress:	2485 Watson Eigin, SC 290					
	ater Bearing Zo					_ , and					
S. REMARK				L	Telephone	a No.:	(803)438-1331	1		_	
	- <b></b> •				20. WATER V	<b>NELL CONTRA</b>		IFICATION: Th	nis well was drilled and belief.	1 under i	my
					M			-			
					Signed: Authori	ica Representative	Parkley	_ Date:	12/27/2006	<u> </u>	



### **Bureau of Water**

FRON	OTE PROTECT	TRUSTL N									
1. WELL OW	MER INFORM	IATION:			6. PERMIT NU	IMBER:	877	,			
Name:			tal Group, Ind	C. (first)							
Address:	P. O. Box	• •		- <del>-</del>	7. USE:		<del></del>	<del></del>		<del></del>	
					Resider	ntai	☐ Public S	upply	Process	Process	
City:	Elgin	State:	SC :	Zip:29045	☐ Irrigatio		☐ Air Cond		☐ Emerger		
	- <del></del>		÷ =	TW	☐ Test W		☐ Monitori	_		Replacement	
Telephone: \			Hame:			TH (completed		Date Started:			8/2006
l .	N OF WELL:						_				
Name:	•		ud's Chevro			45	_ ft.	Date Complete		12/1	5/2006
Street Add	iress:	2367 Taylo	yr St./1600 T	wo Notch	9. Mud Ro	otary	☐ Jetted		Bored	-	
					□Dug		☐Air Rota	ıry	□Driven		
City:	Columbia,	SC	Zip:		Cable 1	· · · · · · · · · · · · · · · · · · ·	□Other				
	Richland		_		10. CASING:	Threeded	<b>✓</b> Welded				
		Longitude:			Diam.:		<u> 1"                                   </u>	Height: Above			
3. SYSTEM		SYSTEM NU			Type:	<b>☑</b> PVC		Surface			
			-		]	☐ Steel	Other	Weight			
4. CUTTING	SAMPLES:	☐ Yes	☑ No		70	in. to 45	feet depth				No
	<del>-</del>	- <del></del>				in. to	feet depth		· <del>-</del>		
Geophysic	zal Loga:	□ Yes	☑ No		11. SCREEN			<del></del>			
		<del>-</del>		Depth to	Туре:	PVC		Diam.:	4"		
Fo	metion Descri	iption	Thickness of Stratum	Bottom of	Slot/Gauge			Length:	20'		<del>-</del>
<u> </u>				Stratum	Set Betwee	en: 1	ft. and10_				
Ded#	brown claye	v gand	27'	27	Sieve Anal	voie	ft. and	_ft. s (please enclos	<b>te</b> )		No.
					12. STATIC W	yeis VATER LEVEL					MI WO
Yellow to	gray clayey	sand (wet)	18'	45'	1			ft. below land	surgace after 24 h	<b>STUDO!</b>	
						LEVEL Below		·	O D M		
<u> </u>	<del></del>		<del>                                     </del>	<u> </u>	Pumping 7	. H. BILGI	_ hrs. Pumping	s (please enclos	, G.F.M. <b>w</b> )		☑ No
			1	Ţ	Yteid:			- 4 CHIO	<del></del> -		
	<del></del>		<del>                                     </del>		14. WATER C						
			<u> </u>	<u></u>			Yes 🗹 No	Bacterial A	\naiysi□ Yes	No₩	3
				!		ciose lab result AL FILTER (filte		121 0	□ No	•	
			<del>                                     </del>	<del></del>		rom rom	44	Yes ft. to	11 NO	n.	
				1	Effective s	ize		Uniformity Co			
					16. WELL GR	OUTED?	<b>₩</b> Yes	□ No			
					✓ Neat C	ement 🗆 Sa	and Cement 🔲	Concrete	Other		
			I 7	1	Depth: Fr	om	10 POSSIBLE COI	) ft. to	40		direction
			<del> </del>	<del></del>	- " REARCES"		: POSSIBLE COI 'ype well disinfect			· —	unecaun
				<u></u>			• •	eletion 2 No	o Amount:		
					18. PUMP:	Date installed	:		Not installed	Z	
			<b></b>		Mir. Name	e:		Model No.:			<del></del>
			1 1	Ţ	H.P.	Volts Submersible	_ Length of drop ☐Jet (sha		ft. Capecity ☐Turbine		gpm
			<del> </del>	<del> </del>		j Supmersible   Jet (deep)	∐Jet (sna □Recipro	•	☐ Centrifu		
				<u></u>	19. WELL DR		Robyn Barkley		934		
				1	Address:	2485 Watson Elgin, SC 290	)				
*[pelloute 14/-	ater Bearing Zo	was Alex	<del> </del>	<del></del>	4	ங்கும் <b>, ல</b> ெ2லி	<del></del>				
	ater Bearing Zo 2nd sheat if neo			1	Ī						
6. REMARK					Telephone	) No.:	(803)438-1331	į			
- AMERICAN									nis well was drilled	under	my
							ue to the best of r				•
					1			•			
					1	1 1	10				
					Signed: Lo	Ina B	Taplen	_ Date:	12/27/2006	1	
					Authori	lead Asproventative					
				·							



1. WFL OV	VNER INFORM	IATION:	<del>1</del>		6. PERMIT NU	IMBER:	877	P			
Name: Palmetto Environmental Group, Inc. (last) (first)			W I Ware								
Address:	P. O. Box	• •			7. USE:		·····				
					Resider	ntial	☐ Public 8	iuppiy	Process	Process	
City:	Elgin	State:	sc :	Zip:29045	☐ Irrigatio	m	☐ Air Cond				
				<del></del>	☐Test W		□Monitori	ng Weil	Replace	☐ Replacement	
Telephone: \			Home:		8. WELL DEP		1)	Date Started:		9/28	/2006
	N OF WELL:				7						
Name:	Handy Par		ud's Chevror		4	45	_ft.	Date Complete		12/15	/2006
Street Add	iress:	2367 Taylo	r St./1600 T	wo Notch	9. Mud Ro	otary		· <del></del>	Bored		
					□Dug		☐Air Rota	u <b>y</b>	□Driven		
City:	Columbia,	SC	Zip:		☐Cable 1		Other	<del></del>			
	: Richland				1	☐Threeded					
		Longitude:			Diam.:	7	<u>1"</u>	Height: Above			
3. SYSTEM	NAME:	SYSTEM NUI	MBER:		Туре:	<b>☑</b> PVC		Surface			
		·			4	□ Steel	□ Other	Weight		·	l-
4. CUTTING	SAMPLES:	☐ Yes	☑ No		0		feet depth		☐ Yes	<b>2</b> N	<b>10</b>
_					44.65		feet depth	<u> </u>			
Geophysic	cal Logs:	☐ Yes	1	Depth to	11. SCREEN Type:	PVC		Diam ·	<b>4</b> "		
Fo	rmation Descri	iption	Thickness of	Depth to Bottom of	Slot/Gauge			Diam.: Length:	20'		<del></del>
		•	Stratum	Stratum	Set Betwee		ft. and 10	_ fL			
		a. a		· · · · · · · · · · · · · · · · · · ·	1		ft. and	_n.	ne)	-	<b></b>
Ked/	brown claye	y seind	27'	27'	Sieve Anal	lysis VATER LEVEL	Ye.	s (please enclo	-SC)		V No
Yellow to	gray clave	sand (wet)	18'	45'	1			ft. below land	surgace after 24 i	tours	
				1	13. PUMPING	LEVEL Below	w Land Surface				
<b></b>				<u> </u>		_TL after	_hrs. Pumping	e (niemee encir		-	D No
]	_		1	1	Pumping 1 Yield:	1 <b>55</b> C	☐ Ye	s (please enclo		į	No.
<b></b>			<del> </del>	<del> </del>	14. WATER C	ZUALITY	_	4			
<u> </u>		<u> </u>	1	<u> </u>	Chemical	Analysis [	⊒ Yes 🔽 No	) Bacterial A	\naiysi□ Yes	No	
I	<b></b>	<del></del> _			TE ARTISCI	rclose lab resul AL FILTER (111	ter peck)	✓ Yes	□ No		·
				<del> </del>	ingtation f	rom	44	ft. to	45	ft.	
<u></u>				<u> </u>	Effective s	9/28		Uniformity Co			
					16. WELL GR	SOUTED?	✓ Yes	□ No	Other		
<del></del>			<del> </del>	<b></b>	Deoth: Fr	rom	Sand Cement   10	D ft. to	40	ft.	
1					17. NEARES	T SOURCE OF	F POSSIBLE CO	NTAMMATION	V: ft.		direction
				1	7		Type well disinfect	ted Yes 7	Туре:		<del></del>
	<del></del>	<del></del>		<u> </u>	18. PUMP:	Date installed	- unbou comp	oletion Z No	o Amount: Not installed	<u> </u>	
Į.		:		1	18. PUMP: Mfr. Name			Model No.:		لكت 	
				1	H.P.	Volts	Length of drop	pipe	ft. Capacity		gpm
<b></b>		<del></del>	<b></b>	<b></b>		Submersible	☐Jet (she		☐Turbine		
l				ļ	19. WELL DR	] Jet (deep) RILLER:	☐Recipro Robyn Barkie	ocating by CERT. NO.:	☐Centrifu 934		
			1	<del></del>		2485 Watson	n	,			
<b> </b>		<u></u>			4	Elgin, SC 29	1045				
	later Bearing Z		1	1							
8.2 6. REMARK	2nd sheet if ne	euo(1)	<u> </u>	<del></del>	Telephone	e No.:	(803)438-1331	1			
w. ruskarik	<del></del> .				20. WATER V	WELL CONTR	ACTOR'S CERT	IFICATION: TI	his well was drilled	1 under n	ny
							rue to the best of			•	-
1					1			_			
1					An An	1 h	11	·	***		
1					Signed: Kar		aspley	Date:	12/27/2008	<u> </u>	
	<del></del> -				Author	rizes Representative					



Larent s):	OIR LUCIES!	MANUAL COM	<u> </u>								
1. WELL OW	NER INFORM	ATION:		· · · · · · · · · · · · · · · · · · ·	6. PERMIT NU	MBER:	877				
Name:			al Group, Ind	C. (first)							
Address:	P. O. Box			7	7. USE:	<del></del>					-
- 12414041					□Resider	ntial	☐ Public St	upply	<b>☑</b> Process		
City:	Elgin	State:	SC	Zlp:29045	☐ irrigation		☐ Air Cond		□Emerger		
Ouj.	3				☐ Test We		☐ Monitoria	-	☐ Replacement		
Telephone: \	Work:		Home:		8. WELL DEP			Date Started:	<u></u>	9/28/2	2006
	N OF WELL:				1						
Name:			ud's Chevro	n/Site	4	5	_ft.	Date Complete	d:	12/15/2	<u> 2008</u>
Street Add	-		r St./1600 T		9.   Mud Ro		□Jetted		<b>☑</b> Bored		
					□Dug	-	□Air Rota	ry	□Driven		
City:	Columbia,	SC	Zip:		☐Cable T	[ocl	□Other				
	Richland	-			10. CASING:	☐ Threaded	Welded	1			
Latitude:		Longitude:	81°00.97		Diam.:		1"	Height: Above/	Below		
3. SYSTEM		SYSTEM NU				<b>☑</b> PVC		1 -			
5 : 5 i EMR (	- <del> </del>	- (- (SM 7(9)			.,,,,,	□ Steel	Other	Weight			
4. CUTTING	SAMDI FR-	☐ Yes	✓ No		ه ا			Drive Shoe?	☐ Yes	☑ No	
I I II I I	www.	<b>⊢</b> :€5	<u> </u>			in. to	feet depth				
Geophysic	nai I ane:	☐ Yes	☑ No		11. SCREEN		.ou supui	·			
Cooperyon	er mala	<u> </u>		Depth to	Type:	PVC		Diam.:	4"		
Fo	rmation Descri	ption	*Thickness of Stratum	Bottom of	Slot/Gauge			Length:	20'		
	·	· · · · · · · · · · · · · · · · · · ·	Onamu	Stratum	Set Betwee	n: <u>1</u>	ft. and 10	ft.			
المحالا	hroum alaua	v oand	27'	27	Sleve Anal		ft. and	ft. (please enclos	e)	[7	No
Ked	brown claye	y sairu	41	<u> </u>		yeis ATER LEVEL		Thiseson strong	<u> </u>	N	146
Yellow to	gray clayey	sand (wet)	18'	45'				ft. below land s	urgace after 24 h	iours	
	<del></del>						Land Surface	- · · · · · · · · · · · · · · · · · · ·			
							_ hrs. Pumping		_G.P.M.		<b>h</b> 61-
	-				Pumping 1 Yield:	est:	☐ Yes	(please enclos	⊕)	₽	N
<u> </u>				<u> </u>	14. WATER C	UALITY					
ł					Chemical		Yes 🔽 No	Bacterial Ar	aiysi⊡ Yes	No.	
					Please en	close lab result	ts —				
<u></u>					18. ARTIFICIA		• •	✓ Yes	□ No		
					Installed fr	rom		ft. to Uniformity Coe	45 Miclent	ft.	
<del> </del>					16. WELL GR		✓ Yes	□ No	THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S		
Ì					<b>☑</b> Neat C	ement 🗆 Si	and Cement 🔲	Concrete 🗆	Other		
	·	***************************************			Denth: Fr	om	10	ft. to	40	ft.	
	· · · · · · · · · · · · · · · · · · ·	, . <del></del>			17. NEAREST	SOURCE OF	POSSIBLE CO	NTAMINATION:		dtr	ection
1			-		I ——	T	ype well disinfect	led☐ Yes Ty letton ☑ No	Amount		
<b></b>			<del> </del>	<del></del>	18. PUMP:	Date Installer	: unpoir comp	ISSUIT BY NO	Not installed	7	
					Mfr. Name			Model No.:			
					H.P.	Volts	Length of drop	pipe	ft. Capacity		gpn
						Submersible	☐ Jet (sha		Turbine		
1			1		19. WELL DR	Jet (deep)	☐Recipro Robyn Barkley		☐Centrifu 934		
<b>}</b>			<del>                                     </del>	<b></b>		2485 Watson		y white is their	<i>95</i> 4	,	
İ			1			Eigin, SC 29					
	ater Bearing Zo 2nd sheet if ne	•			]						
S. REMARK			<del></del>	·	Telephone	No.:	(803)438-1331	<u> </u>			
					20. WATER V	VELL CONTR	ACTOR'S CERTI	FICATION: TH		under my	,
1					direction and	this report is to	ue to the best of i	my knowledge a	nd belief.		
]						A					
]					1 10	l h	11				
]					Signed:	ma B	acklen	_ Date:	12/27/2008		
					Author	kepresentative					



		7 - mar and 10-21										
1. WELL ON	VNER INFORM		_ <del></del>		6. PERMIT NU	IMBER:	877	7				
Name:	Palmetto I	Environment (last)		C. (first)								
Address:	P. O. Box	• • •		•	7. USE:							
					□Resider	ntial	☐ Public S	jupply	<b>☑</b> Process	3		
City:	Eigin	State:	SC :	Zip:29045	□Irrigatio	'n	☐ Air Cont		☐ Emerge	•		
1				· <del>-</del>	☐ Test W	el	□Monitori	ing Well	☐ Replace	ement		
Telephone: \			Home:		8. WELL DEP	TH (completed		Date Started:	<del></del>	9/2	28/20	106
	N OF WELL:		nelle 👫	n/654		16	<b>&amp;</b>	Date C	ud.	450	en-	سمرا
Name:	•	intry #65/Clo				45 Mary	ft.	Date Complete	sd: Bored	12/1	012(	,UÖ
Street Add	# <b>468</b> :	230/ 189K	or St./1600 T	MU NOICH	1	oud! Y	∐Jetted ∐Air Rota	NV.	Misored □Driven			
CH	Calmaki	22	7im.		□ Dug	Tool	LIAIT ROTE	y	- INDIVER			
City:	Columbia, Richland	, 50	Zip:		10. CASING:			T	<u> </u>	<del></del>		
		Longitude:	81 ⁰ 00 07		i	a <b>skus</b> ū	1 ¹¹	Height: Above	Below			
Latitude:		Longitude:			Diam.: Type:	<b>☑</b> PVC	*****	Surface				
TO TO LEM	·www.Misi	ororem AU	ormitiki		туре:	☑IPVC □Steel	☐ Other	Weight				
4 CHTTING	SAMPLES:	☐ Yes	Z No		1 ^	in. to 45		Drive Shoe?		_ 	No	
- WI ING		iii 19\$				in. to				للت		
Geonhada	cal Loge:	☐ Yes	☑ No		11. SCREEN				<del></del>			
			1.	Depth to	Туре:	PVC		Diam.:	4º	****		
Fo.	rmation Descri	iption	Thickness of Stratum	Bottom of	Slot/Gauge	a: 020		Length:	20'			
<b></b>	<del></del>			Stratum	- Set Betwee	en: <u>1</u>	ft. and 10 ft. and	_ ft	· <del></del>			
Red/	brown claye	y sand	27'	27'	Sieve Anal	yala	□ Yes	_ n. s (please enclos	•)			No
		·····			12. STATIC W	VATER LEVEL	•			**************************************	حاجات د	
Yellow to	gray clayey	y sand (wet)	18'	45'	42 5000	TEVEL PO	v Land Surface	nt. below land (	surgace after 24 t	nours		
ļ			1 1	1			v Land Surfacehrs. Pumping		G.P.M.			
<del>                                     </del>		·	<del>                                     </del>	<del></del>	Pumping 1		Ye±	s (please enclos	<b>(e)</b>			No
<u></u>	·				Yield:							_
- 	<del></del>	_ <del></del> _			14. WATER Q Chemical		IYes ☑ No	Rantoviel 4		No	力	-
<del> </del>	<del></del>	<del></del>	<del>                                     </del>	<b>——</b>	T Please en	close lab result	is				<b>4</b>	
					15. ARTIFICIA	AL FILTER (M)	er pack)	✓ Yes	□ No			
				1	Installed fi	rom	44	ft. to Uniformity Cos	45 Miclant	ft.		
<del> </del>	· · · · · · · · · · · · · · · · · · ·		<del>                                     </del>	<del></del>	Effective s	OUTED?	✓ Yes	□ No	onest il			
					☑ Neat C	ement 🔲 St	and Cement 🔲	Concrete 🔲 (	Other			
ļ					Depth: Fr	rom	10	Ü fi. to	40	ı ft.		_
<del> </del>				<del> </del>			POSSIBLE CO ype well disinfec			· —	direc	CUOT
L				<u> </u>			IMPAN COMP	pletion <b>2</b> No	Amount:			_
				1	1	Date Installed	l:		Not installed	Z		
			<del></del>	<b> </b>	Mfr. Name	e: Volts	oneth =#	Model No.:	A Canada			<del></del> _
ł			1	1	H.P.	Volts Submersible	_ Length of drop □Jet (she		_ ft. Capacity ☐Turbine	, —	_ '	gpm
			1		<u></u>	Jet (deep)	□Recipro	ocating	☐ Centrifu	ıgal		-
				ţ	19. WELL DR	ILLER:	Robyn Barkle	y CERT. NO.:	934			
				1	Address:	2485 Watson Eigin, SC 290						
Indicate M	ater Bearing Z	Zones (Use	<del> </del>	<b></b>	<b>-</b>		<b></b>					
	ater bearing 20 2nd sheet if ne			1	1							
6. REMARK				<del></del>	Telephone		(803)438-1331		-	<del></del>		
					20. WATER V	VELL CONTRA	ACTOR'S CERT	IFICATION: Thi	is well was drilled	l under	my	
1					curection and	une report is to	us to the best of	my knowledge a	if <b>ili Deliet.</b>			
1					1 4	1 -	<b>.</b>					
l					Stored Pas	In M	ackley	Date	12/27/2006	ì		
ł					Signed: ////	togi Representative	men	vaiv	- GALLEVILLE	<del></del>		_
<u> </u>		<del></del>				<u> </u>			<del></del>			



**Bureau of Water** 

1000		· remain and									
1. WELL OW	NER INFORM			<del></del>	6. PERMIT NU	JMBER:	877				
Name:	Palmetto E	Environment (last)	al Group, In	C. (first)							
Address:	P. O. Box	427			7. USE:						
					☐ Reside	ntial	☐ Public S	upply	Process		
City:	Elgin	State:	SC	Zip:29045	☐ trrigation		☐ Air Conditioning			☐ Emergency	
					☐ Test W		□Monitori	<u> </u>	Replace		
Telephone: \	Work: N OF WELL:	AQ.14	Home:	<del> </del>	8. WELL DEP	TH (completed	)	Date Started:		9/28	3/2006
2. LOCATION Name:			ud's Chevro	n/Site		45	_ft.	Date Complete	A•	19/14	5/2006
Street Add	•		or St./1600 T		9. Mud Re		_ IL.	Dem Complete	u:  Bored	121 1	# <b>E</b> UUQ
		zor rayk	IVVV I	TO ITAMI		y	☐Air Rota	rv	□Driven		
City:	Columbia,	SC	Zip:		□Cable 1	[ool	□Other		4174015		
	Richland		_ <del></del>		10. CASING:		Welded				
	34°00.77	Longitude:	81°00.97		Diam.:		1"	Height: Above/I	Below		
3. SYSTEM		SYSTEM NU			Type:	<b>☑</b> PVC	☐ Gaivanized	Surface			
						☐ Steel	Other	Weight			
4. CUTTING	SAMPLES:	☐ Yes	☑ No		10	in. to 45	feet depth	Drive Shoe?	☐ Yes		No of
						In. to	feet depth				
Geophysic	al Logs:	☐ Yes	₩ No		11. SCREEN						
P	mation Descri		Thickness of	Depth to Bettom of	Type:Slot/Gauge	PVC		Diam.:	4" 20'		
FO	IIIMUUI DUSCI	pron	Stratum	Stratum	Set Betwee		ft. and 10	Length:	40		_
<del></del>					7		ft. and	ît.			
Red/I	prown claye	y sand	27'	27'	Sieve Anal	ysis	☐ Yes	(please enclose	2)		V No
Yellow to	arav clavev	sand (wet)	18'	45'	12. STATIC V	ATER LEVEL		ft. below land s	urnana eftar 94 l	trium's	
1 2:1311 10	2.4J 4:6J4J	-ania (mor)	<u>'`</u>	<del></del>		LEVEL Below	Land Surface	THE REPORT OF THE PARTY OF	- Have site 27	<del>~</del> 440	
							hrs. Pumping		G.P.M.		
					Pumping 1 Yield:	Test:	☐ Yes	(please enclose	9)	l	No.
			<u> </u>	<del></del>	14. WATER C	UALITY		<del></del>			-
					Chemical	Analysis 🗆	Yes 🔽 No	Bacterial An	alysi⊟ Yes	No.	
						close leb result L FILTER (filb		✓ Yes	□ No		
]						ren er (we	44	ft. to	11 NO	ft.	
		<del></del>			Effective s	ize		Uniformity Coef			
	-				16. WELL GR		✓ Yes and Cement 🗆	□ No	When		
			-	<b></b>	Depth: Fr			Concrete LiC	Aner40	ft.	
						SOURCE OF	FOSSIBLE CO	TAMINATION:	ft.		lirection
•					]	T	pe well disinfect				
<del></del>		<del></del>	<u> </u>		18 PINID-	Date Installed	unpon compl	eum M No	Amount: Not installed	Di	
					Mir. Name	Ľ		Model No.:		<u> </u>	
					H.P	Volts	Length of drap		ft. Capacity		gpm
<del></del>						Submersible Jet (deep)	□Jet (shai □Recipro	•	☐Turbine		
					19. WELL DR		Robyn Barkley		1_1Cenuud 934		
					Address:	2486 Watson Elgin, SC 290	· · · · · · · · · · · · · · · · · · ·				
	iter Bearing Zo				7						
6. REMARKS		~~!)	l	<u> </u>	Telephone	No.:	(803)438-1331				
- museu							CTOR'S CERTI		well was drilled	under n	ny
							e to the best of r				-
						1	_				
					10	1 13.	60		40.0000000		
ł					Signed: Ro	zgli Representativo	merer_	_ Date:	12/27/2006		
L			··		I. Admini	A MANAGEMENT					



LHO/A	OIR PROJECT	THERMAL	<u> </u>								
1. WELL OW	YNER INFORM	SATION:			6. PERMIT NU	MBER:	877	,			
Name:			al Group, Inc	2.							
		(iast)		(first)	1						
Address	P. O. Box			• •	7. USE:			<del></del>	<del></del>		
, mail 000.	<del>.</del>	4-40 E			Residen	wiei -	☐ Public Se	woolv	Process	<b>.</b>	
	972,-1-	044	00								
City:	Elgin	State:	SC .	Zip:29045	☐ Irrigation		☐ Air Cond	•	□Emerge	-	ļ
					☐Test We		☐ Manitorir	<del>,</del>	☐ Replace		
Telephone:	Work:		Home:		8. WELL DEPT	TH (completed	ŋ	Date Started:		9/2	8/2006
	N OF WELL:	AS-15			7	· ·					
Name:			ud's Chevro	n/Site	1 4	15	_ ft.	Date Complet	ted:	12/1	5/2006
	•		or St./1600 T		9. Mud Ro			compte	Bored		
Street Add	#: <b>E05.</b>	LOUI INITE	// WAZ 1000 T	TUNC!	i i	-		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	© Buleu ∐Driven		
_	<b>.</b>					•	☐Air Rota	u y	רוחעאפט		
City:	Columbia,	SC	Zip:		☐Cable T		Other				
	: Richland				10. CASING:	☐ Threaded	Welded	1			
Latitude:	34°00.77	Longitude:	81°00.97		Diam.:		<u>1"</u>	Height: Above	e/Below		
3. SYSTEM		SYSTEM NU				<b>☑</b> PVC		Surface			
e: 0101EM	145-filling	Jigiem NU	MJEN.		l sha:						
			Par :		4 _	☐ Steel		Weight			.
4. CUTTING	SAMPLES:	☐ Yes	Z No		0	in. to <u>45</u>	•	Drive Shoe?	☐ Yes		No
						In. to	feet depth	L			
Georghysis	cai Logs:	' 🗀 Yes	☑ No		11. SCREEN						
			Ι. Ι	Depth to		PVC		Diam.:	4"		
Fo	rmation Descri	iption	Thickness of	Bottom of	Slot/Gauge:			Length:	20'		
L			Stratum	Stratum	Set Betwee		ft. and 10		<del> </del>	_	
		· · · · · · · · · · · · · · · · · · ·	1				ft. and	n.			_
Red/	brown claye	y sand	27'	27'	Sieve Analy	veis		(please enclo	ee)		✓ No
					12. STATIC W	ATER LEVEL	•				
Yellow to	gray clayey	send (wet)	18'	45'	1			. It. below land	surgaçe after 24	nours	<u> </u>
				1			v Land Surface				
				1		ft. after	_ hrs. Pumping		. G.P.M.		
<u> </u>			1	'	Pumping T	est	☐ Yes	r (piezse encio	198)		No No
	<del> </del>		<u> </u>	<u> </u>	Yield:	1141 1442	<del></del>		<del></del>		
			, I	Ţ	14. WATER Q	INCLIT	1 Van (79 44	ه ه داد سفیرس	lnohmil V	Marie San	,
<del></del>			<del> </del>	<u> </u>			Yes 🔀 No	DECIBIA!	willyskill Yes	No	1
			<u> </u>	Ĭ.	16. ARTIFICIA	close lab result		✓ Yes	□ No		
			<b></b>	<u> </u>	- Indiana		AA.	fl. to	∐ N0 45	12.	1
		!	1	· ·	Filestic of	rom		Uniformity Co		il.	1
			<del> </del>	<del></del>	14 Win 1 AB	OUTEDS	✓ Yes		- June 11		
		:	1	1	D Name Co	ement II se	and Cement []	Concrete IT	Other		
<del></del>			<del> </del>	<del></del>	Depth: Fro			ft. to	40	) ft.	
			1	1			POSSIBLE CON				direction
		***************************************	<del>                                     </del>		1		ype well disinfect				
L_			1_	1			* * .	letion 2 N	o Amount:		
			T	T	18. PUMP:	Date Installed	:		Not installed	Z	
			<u> </u>	<b>_</b>	_ Mfr. Name:	:		Model No.:			
				1	H.P	Volts	Length of drop	pipe	ft. Capacity		gpm
		·		<u> </u>	Type:	Submersible	☐Jet (sha	illow)	□Turbine		
				1		Jet (deep)	□Recipro		☐ Centrific		
				<u> </u>	19. WELL DR		Robyn Barkiey	y CERT. NO.:	934	,	
			]	1		2486 Watson	•				1
			<b> </b>	<u> </u>	4	Elgin, SC 290	U40				ł
	ater Bearing Z		]	1	1						
	2nd sheet if ne	eded)	L		J						
5. REMARK	<b>S</b> :				Telephone		(803)438-1331		-		
									his well was drilled	i under i	my
					direction and t	his report is tra	ue to the best of r	my knowledge .	and belief.		
					1	Ā		-			
					1	1 1	1 4				
					Signed: Ro	m B	reRlan -	Date:	12/27/2006	ì	
					Authoris	zed Representative					<del></del>
I.						0	- 7				



tanante ta	DIECT PRUBER									
1. WELL OWNER	NFORMATION:			6. PERMIT NU	MBER:	877				
Neme: Palt	netto Environmen (last)		C. (first)							
Address: P. C	). Box 427		<b>(4</b> )	7. USE:	<del> </del>		<del> </del>			
				□Reside	ntial	☐ Public S	upply	Process		
City: Eigh	State:	SC	Zip:29045	□Irrigatio	n	☐ Air Cond		□ Emerger		
City.	Ouzu.	•	<del>cibaco.iò</del>	☐Test W		□Monitori	-	Replace	•	
Telephone: Work:		Home:			TH (completed)		Date Started:			/2006
2. LOCATION OF	WELL: AS-16			1						į
Name: Har	dy Pantry #65/Clo	ud's Chevro	n/Site		15	ft.	Date Complete	xd:	12/15	/2006
Street Address:	2367 Taylo	or St./1600 T	wo Notch	9. Mud Ro	tary	□Jetted		<b>✓</b> Bored		
	•			□Dug		☐Air Rota	ry	□Driven		į
City: Col	ımbia, SC	Zip:		□ Cable 1	rool .	☐ Other				
COUNTY: Rick		<b></b>		10. CASING:	☐ Threaded	Welded	1			
1	00.77 Longitude:	91 ⁰ 00 07				40	Height: Above	Dolow		
				Diam.:						
3. SYSTEM NAME	: System Nu	MBER		Туре:	<b>☑</b> PVC	☐ Galvanized	Surface			
				_		Other	Weight		-	
4. CUTTING SAMI	LES:  Yes	Z No		0	in. to <u>45</u>		Drive Shoe?	☐ Yes	Z N	lo
ł					In. to	feet depth	<u>i</u>			
Geophysical Log	s: 🗆 Yes	✓ No		11. SCREEN						
		*Thickness of	Depth to	Type:	PVC		Diam.: Length:	4" 20'		
Formatio	n Description	Stratum	Bottom of	Slot/Geuge				20'		-
<del></del>		-	Stratum	Set Between	en:1	ft. and 10	. ft. ft.			
Red/hrow	n clayey sand	27'	27'	Sieve Anal			_ir. (please enclos	a)	r	<b>7</b> 1 No
1,4000,01044	i dayoy dana	2,			ATER LEVEL	<u> </u>	(piezase entrios	<u> </u>		41 140
Yellow to gray	clayey sand (wet)	18'	45'				ft. below land s	urgace after 24 h	idurs	
						Land Surface				
				<u> </u>	ft. after	. hrs. Pumping		G.P.M.		
					Test:	☐ Yes	(please encios	e)		<b>2</b> No
				Yield:	3141 1147					
}		1			iualiti Analysis 🔲	Yes 🔽 No	Postorial Ar	nalysi Yes	No	
<del>                                     </del>		<del> </del>			close lab result		nacein A	mijou	140EF	
					L FILTER (filte		✓ Yes	□ No		
				Installed fr	om	44	ft. to		ft.	
		ļ		Effective s	ize		Uniformity Cos	efficient		
			•	16. WELL GR	OUTED?	Yes _	□ No			
	<del></del>					nd Cement	Concrete [1]	Other40	<u> </u>	
				Depth: Fr	on Source of	FOSSIBLE CO		40		irection
	<del></del>								_ "	u <b>eviu</b> n
I						pe well disinfect unpon compl	etion 🔽 No	Amount:		
				18. PUMP:	Date installed:			Not installed	2	<del></del>
				10001110	*					
İ				H.P	Volts	Length of drop	pipe	ft. Capacity		_ abw
<del></del>	<del></del>			,,	Submersible Jet (deep)	□Jet (sha □Recipro		☐Turbine ☐Centrifu	nal	
1				19. WELL DR		Robyn Barkley		<u> </u>		
					2485 Watson	· majir married		<b>∞</b> ¬		
					Eigin, SC 290	45				
*Indicate Water Bo	earing Zones (Use			7	-					
	ect if needed)	]		1						
5. REMARKS:		· · · · · · · · · · · · · · · · · · ·		Telephone		(803)438-1331				
ĺ								s well was drilled	under m	ıy
ĺ				direction and t	ihis report is tru	e to the best of r	ny knowledge a	nd belief.		
					•					
				1	1 M	. 1/				
				Signed:	ma 13	artley	Date:	12/27/2006		
<u></u>	<b>.</b>			Authori	zaci fiepresentativo					



MON.	OLE PROJECT	PRUBER R									
1. WELL OW	MER INFORM	ATION:			6. PERMIT NU	MBER:	877				1
Name:			al Group, Inc	1.	1						
ROUTE.	. GIIII WU L	_(last)		^ (first)	1						
Address:	P. O. Box	• •	· ·	()	7. USE:						
Audices.	F. O. DOX	T <b>4</b> . [			□Resider	wiel	☐ Public Si	anniv	Process		1
								•••	_		- 1
City:	Elgin	State:	SC :	Zip:29045	☐ irrigatio		☐ Air Cond	•	☐ Emerge	•	
					☐Test W	e()	☐ Monitorir	rg Well	☐ Replace		
Telephone: \	Work:		Home:		8. WELL DEP	TH (completed	)	Date Started:		9/28/20	306
	N OF WELL:				1		-				
			adia Ohaa	. MT514		æ	4	Data Camalata	ad.	12/15/20	nne
Name:	•		ud's Chevro			5	, ft.	Date Complete		12110120	200
Street Add	iress:	2367 Taylo	r St./1600 T	wo Notch	8. Mud Ro	otary	□Jetted		Bored		
					Dug		☐Air Rota	y	Driven		
City:	Columbia,	SC	Zip:		☐Cable 1	loci .	☐ Other				
	Richland		enh.		10. CASING:		Welded	F		· · · · · · · · · · · · · · · · · · ·	
						I I II ORUGU			(Deleve		4
Latitude:		Longitude:	81 00.97		Diam.:		1"	Height: Above			ł
2. SYSTEM	NAME:	SYSTEM NU	MBER:		Type:	<b>☑</b> PVC	☐ Galvanized	Surface			
						☐ Steel	Other	Weight		_	
4 (4)	CAMPI PO-	[] Yes	☑ No		1 ^			Drive Shoe?		Z No	- 1
4. CUTTING	SAMPLES:	Li Tes	MAT NO			in. to 45		DITTE STOR!	LL 195	GET 140	
						in. to	feet depth	<u> </u>		<del></del>	
Geophysic	cal Logs:	☐ Yes	₩ No		11. SCREEN						
				Depth to	Type:	PVC		Diem.:	4"		1
Fo	rmation Descri	iption	Thickness of	<b>Bottom</b> of	Siot/Gauge			Length:	20'		]
		•	Stretum	Stratum		xn: 1	ft. and10	ft.			
		•	- 1		1		fi. and	ft.			
Red/	brown claye	ey sand	27'	27'	Steve Anal		☐ Yes	(please enclos	<b>:e)</b>		No
				····		ATER LEVEL					
Yellow to	gray clayev	sand (wet)	18'	45'				ft. below land	surgace after 24 i	10urs	
							Land Surface				
						ft. after	_hrs. Pumping		G.P.M.		
	····			•		Test	☐ Yes	(please encice	<b>(e)</b>		No
			Į .		Yield:		<del></del>				1
	_				14. WATER C			T- 11.1.			
			]				I Yes 🔽 No	Bacteriai A	nalysi⊟ Yes	No.	
				<del>,</del>	Please en	olose lab resuli	<b>S</b>				
ŀ			<u> </u>		18. ARTIFICIA	L FLTER (個	er pack)	V Yes	☐ No		
				· · · · · · · · · · · · · · · · · · ·	Installed fr	rom	44	fl. to	45	ft.	
<u>.                                    </u>					Effective a	ize		Uniformity Cos	efficient		
					16. WELL GR	OUTED?	✓ Yes	☐ No			
					<b>☑</b> Neat C	ement 🛚 Sa	and Cement 🗆	Concrete 🗆	Other		
· ·	··········				Depth: Fr	om	10	ft. to	40		
l			[		17. NEAREST	SOURCE OF	POSSIBLE CO	<b>VITABINATION</b>		dire	ction
,		······································			<b>1</b>	T	ype well disinfect	ed Yes T	ype:		
<b>.</b>			1				unpon compl	etion 🔽 No	Amount:		
1			<u> </u>		18. PUMP:	Date Installed	ype well disinfect unpon compl		Not installed	2	
			<u>                                      </u>			):					
					H.P	Volts	Length of drop		ft. Capacity		gþm
					Type:	Submersible	☐Jet (she	llow)	□Turbine		
					7	Jet (deep)	□Recipro		☐ Centrifu		
					19. WELL DR		Robyn Barkley	CERT. NO.:	934		
				-	Address:	2486 Watson					1
			L		_	Elgin, SC 291	045				
Indicate W	ater Bearing Z	ones (Uee			7						
	2nd sheet if ne	•	1		1						
5. REMARK		,	<del> </del>	·	Telephone	n No.:	(803)438-1331				
~									s well was drilled	under mv	
i							ue to the best of i				
l					THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S	and inhart at at	w und 10001 VI I	··· minimage c			
ŀ					1 .	Я					
l .					1 1	l b	1.1				
Į.					Signed:	mn 130	Allen	_ Date:	12/27/2006	<u> </u>	
l					Author	leog Representative					



PHOV	OIR PROTECT	Pausye A								
1. WELL ON	MER INFORM	IATION:			S. PERMIT NU	MBER:	877	. — — —		
Name:		Environment	ai Group, Inc		1					
	D 0 D	(last)	•	(first)	7. USE:			<del></del>		
Address:	P. O. Box	42/			4	-41-1	Elbara G	······································	Process	•
					Resider		☐ Public St		☑Emerge:	
City:	Elgin	State:	SC :	Zlp:29045	☐ Irrigation		☐ Air Cond	•		•
					☐ Test We		☐ Monitorir		□Replace	
Telephone:			Home:		8. WELL DEP	TH (completed	)	Date Started:		9/28/200
2. LOCATIO	N OF WELL:									
Name:	Handy Par		ud's Chevroi			5	, ft.	Date Complete		12/15/200
Street Add	irees:	2367 Taylo	r St./1600 T	wo Notch	9. Mud Ro	tary	☐Jetted		<b>☑</b> Bored	
		-			□Dug		□Air Rota	ry	□Driven	
City:	Columbia,	SC	Zip:		☐Cable T		□Other			
	: Richland		-		10. CASING:	☐Threaded	Weided	l.		
Latitude:	34°00.77	Longitude:	81°00.97		Diam.:		111	Height: Above	Below	
2. SYSTEM		SYSTEM NU				PVC		Surface		
A. A. I.A. I ENG			me are the			□Steel		Weight		
4 CALLETTING	SAMPLES:	☐ Yes	☑ No		1 ^	in. to 45		Drive Shoe?		Z No
a. Cui iinii	armir Ledi	⊔ 195	WT 140			in. to	feet depth	I SIVE!	- 100	tilet 170
		<b>5</b>	1771 A.		44 0000000	un. w	leer debut			
Geophysi	CSI FOGS:	☐ Yes	· · · · · · · · · · · · · · · · · · ·	Depth to	11. SCREEN Type:	PVC		Diam.:	4"	
E	rmation Descri	intian	*Thickness of	Bottom of	Stot/Gauge			Length:	4* 20'	
		deren.	Stratum	Stratum	Set Betwee		ft. and 10	ft.		
					1		ft. and	ft.		
Red/	brown claye	y sand	27'	27'	Slave Analy	/sis	☐ Yes	(please enclos	6)	
V-11		. aand dend	401	AEI	12 STATIC W	ATER LEVEL	•	& halandard		Safe meth
Teliow to	gray clayey	sand (wet)	18'	45'	43 BILLIBRA	1 EVEL Rales	Land Surface	IL DEIGN IETO	surgace after 24 l	MAIS
1							_hrs. Pumping		G.P.M.	
						est:		(please enclos		
[				i	Yield:					
					14. WATER Q					
					Chemical /		Yes 🖸 No	Bacterial A	nalysi□ Yes	No
			1		Pieese en	close lab result		✓ Yes	□ No	<del></del>
<del></del>	······································		ļ			om		M Yes	∐ N0 45	ñ.
1			]		Effective s	ize	77	Uniformity Con		
<del></del>					16. WELL OR	OUTED?	✓ Yes	□ No		— — — — — — — — — — — — — — — — — — —
					☑ Neat C	ement 🔲 S	and Cement 🔲	Concrete	Other	
					Depth: Fr			fl. to		ft.
			<b></b>		17. NEAREST		POSSIBLE CO ype well disinfect			directic
[			1 1		I ——			seu∐ Tes l' Letion DiNo	ype: Amount:	
	<del></del>				18. PUMP:	Date Installed	<u>unpon comp</u>	100	Not installed	7/
					Mfr. Name	):		Model No.:		
					H.P.	Volts	Length of drop	pipe	ft. Cepacity	db
L						Submersible	□Jet (she		Turbine	
[						Jet (deep)	□Recipro		☐Centrifu	
			<del> </del>		19. WELL DR	NLLER: 2485 Watson	Robyn Barkley	y Certi. No.:	934	•
1					Auguress:	Eigin, SC 29				
*Indinate 1A	ater Beering Z	ones (Use	<del> </del>		-1		<del></del>			
	rater bearing 2 2nd sheet if ne		1							
S. REMARK			<del></del>		Telephone	No.:	(803)438-1331			
A CHEMICAL	· .				20. WATER V	VELL CONTR			s well was drilled	under my
							ue to the best of			-
1					1	-		- <del>-</del>		
1						1 1				
1					Signed: 1	lan B	asklen-	Deta:	12/27/2006	3
1						ze Rupruseriniva				
L					1	//				



#### **Bureau of Water**

PHONE	DIE PROTECT I	PROPER	L								
1. WELL OW	NER INFORM	ATION:			6. PERMIT NU	MBER:	877				
Name:	Palmetto E	invironment	ai Group, Ind	C. (first)							
Address:	P. O. Box			/ay	7. USE:						
, mm: 000;					□Resider	rtiel	□ Public 8	upply	Process	;	
City:	Elgin	State:	SC	Zip:29045	☐ Irrigatio				☐ Emerge		
orig.	—8.,	June.	-	povt0	☐ Test We		□ Monitori	-	□Replace		
Telephone: \	Nark:		Home:		8. WELL DEP			Date Started:			/2006
	N OF WELL:	AS-19			1	4	-				
Name:			ud's Chevro	n/Site	4	5	_ ft.	Date Complete	ed:	12/15	/2006
Street Add	•		or St./1600 T		8.	tary	□Jetted		<b>✓</b> Bored		
					□Dug	-	☐Air Rota	ry	□Driven		
City:	Columbia,	SC	Zip:		☐Cable T	ool					
	Richland		-		10. CASING:	□Threeded	Welded				
Latitude:	34°00.77	Longitude:	81°00.97		Diam.:	~~	<u> 1"                                   </u>	Height: Above	/Below		
3. SYSTEM I	NAME:	SYSTEM NU			Type:	<b>☑</b> PVC	☐ Galvanized	Surface			
						☐ Steel	Other	Weight		•	
4. CUTTING	SAMPLES:	☐ Yes	☑ No		10	in. to 45	feet depth	Drive Shoe?		Z N	0
						In. to	feet depth	<u></u>			
Geophysic	al Logs:	☐ Yes	☑ No		11. SCREEN						
			*Thickness of	Depth to	Туре:	PVC		Dlam.:	4"		i
For	mation Descri	ption	Stratum	Bottom of	Slot/Gauge		A and 45	Length:	20'		-
				Stratum	Set Betwee	n. <u>1</u>	ft. and 10	. ft. ft.			
Red/t	prown claye	y sand	27'	27'	Sieve Aner	reis	☐ Yes	(please encios	<b>:e)</b>		7 No
					12. STATIC W	ATER LEVEL	<del></del>				
Aeliom to	gray clayey	sand (wet)	18'	45'	13. FUMPING	TEVEL Bales	Land Cular	ft. below land	turgace after 24 h	roure	
							Land Surface hrs. Pumping		G.P.M.		
					Pumping T			(please enclos		E	Zi No
					Yield:			··	· · · · · · · · · · · · · · · · · · ·		
			[		14. WATER Q Chemical /		Yes 🔽 No	Bacterial A	nalvsi⊡ Yes	No	
	<del></del>					rumayeus Diose lab result			nenysulli 162	MA	
					18. ARTIFICIA	L FILTER (社)	er pack)	Z Yes	□ No		
						om	44	ft. to	45	ft.	
					Effective s		✓ Yes	Uniformity Co	encient		
							and Cement	Concrete 🖂	Other		
		<del></del>			Denth: Fro	201	10	ft. to	40		
							POSSIBLE CO			di	irection
			]			······	ype well disinfect	etion [7] Ma	ype:	<del></del>	
		<del></del>		· · · · · · · · · · · · · · · · · · ·	18. PUMP:	Date Installed	pe well disinfect unpon compl	A INC	Not installed	2	
	*··-				Tanı- Labit Kö	•		1410001 140			
					H.P	Voits	Length of drop		ft. Capacity		gpm
	******		<del>  </del>			Submeraible Jet (deep)	□Jet (she □Recipro		☐Turbine ☐Centrifu	nai	
					19. WELL DR		Robyn Barkley		<u> </u>		
	************				Address:	2485 Watson					
•		· · · · · · · · · · · · · · · · · · ·			4	Eigin, SC 290	145				
a 2	iter Bearing Zo nd sheet if nee										
S. REMARKS	S:		<del></del>		Telephone		(803)438-1331				
							CTOR'S CERTI In to the best of r		s well was drilled and belief.	under m	y
						1 1	1 1				
					Signed: KA	my Br	uklon	_ Date:	12/27/2006		
	·· · · · · · · · · · · · · · · · · · ·	-				Representative					



LMOA	OIE MODIFIE	LEGISTER	ľ.								
1. WELL OW	MER INFORM	MATION:		<del></del>	6. PERMIT NU	IMBER:	877				
Name:			zal Group, In	C. (firat)			27.				
Address:	P. O. Box			( <b></b> )	7. USE:	<del></del>					
read one.					□Resider	ntiel	☐ Public S	vlaau	Process		
City:	Elgin	State:	SC	Zip:29045	☐ Imigatio		☐ Air Cond		☐ Emerger		
Oily.	-igu	Jac.	<del>50</del>	ლ <b>h-⊄Ω</b> 04Ω	☐ Test W		☐ Monitoria	-	Replace	-	
Telephone: \	Work:		Home:		8. WELL DEP			Date Started:	i refuere		8/2006
	N OF WELL:	AS-20			1	(	•				
Name:			ud's Chevro	n/Site	4	15	_ft.	Date Complete	d:	12/1	5/2006
Street Add	•		or St/1600 T		9. Mud Ro		□Jetted		Bored		
	= <del></del>		<del></del> •		Dup	•	□Air Rota	ry	□Driven		
City:	Columbia,	SC	Zip:		☐Cable 7	iool	□Other	-			
	Richland				10. CASING:	☐ Threaded	Welded	T T			
Latitude:		Longitude:	81°00 97		Diam.:		4 ⁿ	Height: Above/	Below		
3. SYSTEM		SYSTEM NU		• • • •		<b>☑</b> PVC	☐ Galvanized	Surface			
13   EM	TT TO SERVE	31418W MA			, yhe:	BZI-VC □ Steel	Other	Weight			
4 CHITTING	SAMPLES:	☐ Yes	Z No	· · · · · ·	1 ^	in. to 45		Drive Shoe?		<b>Z</b>	No
. vu: 1146	wantleg:	L 165	ET 140		I ——	in. to 45	reet depth	Pulse auge,	<b>□</b> 162		W
Cassinal	cal Logs:	☐ Yes	☑ No		11. SCREEN	III. (U	leet depui	<u> </u>			<del></del>
Contratego	an Lugo.	L 105	1.	Depth to	Type:	PVC		Diam.:	4"		
Fo	rmation Descr	iption	Thickness of	Bottom of	Slot/Gauge	: .020		Length:	20'		_
		-	Stratum	Stratum	Set Between			ft.			<del></del>
D. d.	h		0771	A-21	1		ft. and	n.			
Red/	brown claye	y sand	27'	27'	Sleve Analy	yale ATER LEVEL	☐ Yes	(please enclos	9)		✓ No
Yellow to	oray claves	sand (wet)	18'	45'	12 SIAIR W	ia ier level		ff. helow land a	urgace after 24 h	durs	
	<u> </u>				13. PUMPING	LEVEL Below	Land Surface			72.0	
						ft. after	hrs. Pumping				
					Pumping T	lest:	☐ Yes	(please enclos	<b>3)</b>	•	No.
	···	**************************************	· · · · · · · · · · · · · · · · · · ·		Yield: 14. WATER O	WATER -		····			
}						iuality Analysis 🔲	Yes 🔽 No	Bacterial An	alvsi⊡ Yes	No	1
		<del></del>	<del>                                     </del>			ciose izb result		TOTAL PROPERTY COME AND INC.			
<u> </u>			]		18. ARTIFICE	L FILTER (ALL	er pack)	✓ Yes	□ No		<del> </del>
					Installed fr	om	44	ft. to	45	îL.	
<u> </u>					Effective s		✓ Yes	Uniformity Coe	mcient		
}							Mary Tes and Cement ☐	☐ No Concrete ☐ (	Mher		
<del></del>			<b> </b>		Denth: Fr	om	10	ft. to	40		
					17. NEAREST	SOURCE OF	POSSIBLE CON	TAMINATION:	ft.		direction
					]		pe weil disinfect	ed⊡ Yes Ty	pe:		
			ļ		de dipart	Data Indella	ype well disinfect unpon compl :	etton M No	Amount: Not installed		
			]		Mfr. Name	Por Henrico		Model No.:	LACT RIGHTING	اكت	
			<u> </u>	· · · · · · · · · · · · · · · · · · ·	H.P.	Volts	Length of drop		ft. Capacity		gpm
					Type:	Submersible	□Jet (sha		Turbine		Jp
						Jet (deep)	□Recipro		☐ Centrifu		
					19. WELL DR	<b>ILLER:</b> 2485 Walson	Robyn Barkley	CERT. NO.:	934		
			1		A001698:	Elgin, SC 290	145				
"Indicate W	ater Bearing Z	ones (Use	<u> </u>	<del></del>	1	-8-1-00-004					
	and sheet if ne		1								
5. REMARK				·	Telephone		(803)438-1331				
							CTOR'S CERTI			under	my
					direction and t	inis report is tru	e to the best of r	my knowledge a	nd belief.		
					.	<u> </u>					
					100	h	10				
ľ					Signed: 100	my Ban	Alen	Date:	<u> 12/27/2006</u>		
					Authori	gici Representative					



1 1000	OID INDIDE	e remover								
1. WELL ON	MER INFORM	MATION:	<del></del>		6. PERMIT NU	MBER:	877			
Name:	Palmetto E	Environment (lest)	al Group, in	C. (firat)			-			
Address:	P. O. Box	• •		<b></b>	7. USE:	<u>,</u>				
					☐ Resider	rtial	☐ Public 8	upply	Process	1
City:	Elgin	State:	SC	Zip:29045	☐ irrigatio	n	☐ Air Cond		☐ Emerge	
]	· · • · · ·		*	•	☐ Test We		■ Manitori	•	☐ Replace	•
Telephone:			Hame:		8. WELL DEP	TH (completed	)	Date Started:	· · · · · · · · · · · · · · · · · · ·	9/28/2006
2. LOCATIO	N OF WELL:				1					
Name:	Handy Par		ud's Chevro		4	5	_ft.	Date Complet		12/15/2006
Street Add	iress:	2367 Taylo	or <b>St./1600</b> T	wo Notch	9. Mud Ro	tary	□Jetted		<b>☑</b> Bored	
					□Dug		□Air Rota	гу	□Driven	
Ctty:	Columbia,	SC	Zip:		☐Cable T		□Other			
8	Richland				10. CASING:	☐Threaded	Welded			
		Longitude:			Diam.:		1"	Height: Above		
3. SYSTEM	NAME:	SYSTEM NU	MBER:		Type:	PVC	☐ Galvanized			
					1		. Ci Other	Weight		
4. CUTTING	SAMPLES:	☐ Yes	☑ No		0		feet depth	Drive Shoe?	☐ Yes	☑ No
			-			in. to	feet depth	<u> </u>		·
Geophysic	cal Logs:	☐ Yes	₩ No		11. SCREEN	PVC		Diam :	Λu	
Fo	rmation Descri	intion	*Thickness of	Depth to Bottom of	Slot/Gauge	020		Diem.: Length:	<del>7</del> 0'	<del></del>
<u>.                                 </u>		· · · · · · · · · · · · · · · · · · ·	Stratum	Stratum	Set Betwee	n: 1	ft. and 10	_ft.		
B			A-77	~~	7)		ft. and	_ft.		
Ked/	brown claye	y sand	27'	27'	Sieve Analy	GIS ATES I EVEL	☐ Yes	(plaase enclo	<del>se)</del>	₩ No
Yellow to	gray clayev	sand (wet)	18'	45'				ft. below land	surgace after 24 i	tours
				<del></del>			Land Surface			
<b></b>			ļ				_ hrs. Pumping	(nlanna engle	G.P.M.	<b></b> *
l					Pumping T Yield:	USC.	<u> </u>	(please enclo	<del>90</del> )	<b>☑</b> No
					14. WATER O					
					Chemical /	Analysis 🗆	Yes 🗹 No	Bacterial A	nalysi⊡ Yes	No
]					Pieese end	olose lab result	er neck)	✓ Yes	□ No	
<b></b>						on	44	ft. to	45	n.
<u> </u>					1 Effective s	bre .		Uniformity Co		
}					16. WELL GR	OUTED?	Yes	□ No	Othon	
					Depth: Fn	om.	and Cement 🔲	ft. to	46	ft.
					17. NEAREST	SOURCE OF	POSSIBLE CO	NTAMINATION	: ft.	it. direction
					<del></del>	T	ype well disinfect	ed Yes 1	ype:	
	<del></del>	<del></del>			12 DI MD:	Date Installed	unpon comp	letion / No	Not installed	
L					Mfr. Name			Model No.:	THE MEDICAL	لك
			1		H.P	Volts	Length of drop	pipe	ft. Capacity	gpm
			<del>                                     </del>			Submersible	☐Jet (sha	•	Turbine	
1					19. WELL DR	Jet (deep)	☐Recipro Robyn Barkley		☐Centrifu 934	
						2485 Watson		,	301	
	·····				4	Elgin, SC 290	045			:
	ater Bearing Zo and sheet if ne									
6. REMARK		euea)	<u> </u>	L	Telephone	No.	(803)438-1331			
e urbany	<b>67</b> •								is well was drilled	under my
							ue to the best of			
						•		<del>-</del>		
1					h	1 sh	11			
1					Signed: Ka		when	Date:	12/27/2006	<u> </u>
<u></u>					Authori	end Representative				



#### **Bureau of Water**

											_
1. WELL OW	MER INFORM				6. PERMIT N	JMBER:	877				
Name:	Palmetto E	Environment (last)	al Group, in	C. (first)							
Address:	P. O. Box	427			7. USE:						
					Reside	ntiai	☐ Public 8	Supply	<b>☑</b> Process	,	
City:	Elgin	State:	SC	Zip:29045	☐ Irrigatio	on	☐ Air Cons	ditioning	☐ Emerge	ncy	
•	•			•	☐ Test W	'ell	☐ Monitori	ng Well	Replace		
Telephone:		10.22	Home:	····	8. WELL DEP	TH (completed	)	Date Started:		9/28/200	6
1	N OF WELL:			(0)4 -		46	•		_	4642566	
Name:	•		ud's Chevro			45	ft.	Date Completed		12/15/200	Ö
Street Add	I <b>186</b> 5:	236/ 1 aylo	of St./1600 T	wo Notch	9. Mud R	OUNTY	☐Jetted		Bored		
	Calumbia	00	71		☐Dug	Tool	☐Air Rota ☐Other	ır <b>y</b>	□Driven		
City:	Columbia, Richland	30	Zip:			☐ Threeded		7			
		Longitude:	04000 07			□ 1me8090	✓ Welded	Uniobs At-	lalma.		
					Diam.:	[7] m /c		Height: Above/E			
3. System	NAME:	SYSTEM NU	MBER:		Туре:	PVC		Surface			
4 61177316	DAMPI FO.	☐ Yes	Z No		┥ 、	☐ Steel	Other	Weight			
4. CUTTING	gamples:	LI Yes	KT NO		ļ ——•			Drive Shoe?	☐ Yes	☑ No	
Countries	al Lage	□ v	₩ No		44 800000	in. to	feet depth	<u> </u>			_
Geophysic	al Lugs:	☐ Yes		Depth to	11. SCREEN Type:	PVC		Diam.:	<b>4</b> ⁿ		
For	nnation Descri	ption	Thickness of	Bottom of	Slot/Gauge	.020		Length:	4" 20'		
			Stretum	Stretum	Set Between		ft. and 10	_ft.			
Red/	brown claye	v sand	27'	27	Sieve Anai	vala	ft. and	_ft. 5 (please enclose	<b>.</b>	[Z] N	<b>S</b>
					12. STATIC V	VATER LEVEL	<u> </u>				~
Yellow to	gray clayey	sand (wet)	18'	45'	49 Printer Printer	T SVET BALL	Land Surface	ft. below land st	rgace after 24 l	idure	_
1				İ			Land Surrace hrs. Pumping		G.P.M.		
					Pumping 1		ae tariprig	(please enclose		EZ N	40
					Yield:	HIAT ITO		**		<del></del>	_
					Chemical		Yes 🔽 No	Bacterial Ana	ılysi⊟ Yes	No	
		······································			Please en	ciose lab result	is				
<u> </u>						L FILTER (8)		✓ Yes	□ No		
					Effective a	rom	44	ft. to Uniformity Coef	45 icient	ft.	
	*****	<del></del>			16. WELL GR	OUTED?	✓ Yes	□ No			-
	<del></del>				Neat C	ement 🛚 Sa	and Cement 🔲	Concrete 🗀 O	ther		• !
					Depth: Fr	om ' sallese se	10	ft. to NTAMINATION:	40	ft. direction	
<del></del>				<del></del>				ed∐ Yes Ty			e l
							unpon compi	etion 🗹 No	Amount		•
					18. PUMP:	Date Installed		Model No.:	Not installed	✓	
<del> </del>					Mfr. Name H.P.	volts	Length of drop		ft. Capacity	gp	m
					Type:	Submersible	☐Jet (sha	illow)	□Turbine		
					19. WELL DR	Jet (deep)	Recipro		☐ Centrifu		_
	<del></del>	······				ILLERC 2485 Watson Elgin, SC 290		CERI. NO.:	934		
	ater Bearing Zo				1	<b>ப</b> ழாடி <b>ச</b> ெ 284	~				
5. REMARK		PAGE /	L	L	Telephone	No.:	(803)438-1331				
								FICATION: This	well was drilled	under mv	-
								my knowledge an			
					Da Ma	la 1	allen	- Partu-	12/27/2006		
					Signed: <u>///</u>	zarj/mprocentative	THE REAL PROPERTY.	_ L/8/6:		<del></del>	ļ
<del></del>	· · · · · · · · · · · · · · · · · · ·		<del></del>		· <del>l</del>						_



Yellow to gray clayey sand (wet)  18'  18'  18'  18'  18'  18'  18'  18	A 00000 0 000					To			-	<del></del>		
Address: P. O. Box 427 City: Eigh State: SC Zip-26045 Telephone: Work: Horne: 2 LOCATION OF WELL: AS-23 Name: Hardy Parity #85E/Cloud's Chevron/State Steed Address: 2367 Taylor SL/1600 Two Notch City: Columbis, SC Zip: CCUNTY: Richland Luttude: 3470.077 Langitude: 81°00.97 3. SYSTEM MAME: SYSTEM NUMBER:  Geophysical Logis: Yes Zi No Fermation Description Thickness of Systems Red/brown clayey sand (wet) 18' 45' Type: PC Description Completed: 12' 15' State Address: 22' 27' 27' Stave Arabysis Columbia Completed: 18' 20' No Fermation Description Thickness of Systems Red/brown clayey sand (wet) 18' 45' Type: PC Description Completed: 10' No State Market Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Columbia Co				al Grann in	^	6. PERMIT N	JAIBER:	87	1			
City: Eigh   State: SC   Zip:28045	rume:		(last)									
Columbia   Section   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia	Address:	P. O. Box	427									
Telephone: Work:   Home:   L. Well.   BEPTH (completed)   Date Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   Started:   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S928/2008   S9										_		
Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Total Complete   Tota	City:	Elgin	State:	SC	Zip:29045				•	•	•	
2 LOCATION OF WELL: AS-23 Name: Hardy Pantry #85/Cloud's Chevron/Site Street Address: 2867 Taylor St./1600 Two Notch City: Columbia, SC Zp: COLUMY: Richland Listade: 34°00.77 Lengthate: 81°00.97 3. SYSTEM NAME: SYSTEM NUMBER: 4. CUTTING SAMPLES: Yes Z No Geophysical Logs: Yes Z No Frometion Desoription Red/brown clayey sand 27 27 77 Sixva. Arebysis Red/brown clayey sand (wet) 18' 45' 11. FUNE PINC LEVEL Sciow Land Surface Red/brown Clayey sand (wet) 18' 45' 11. FUNE PINC LEVEL Sciow Land Surface Red/brown Clayer Same (wet) 18' 45' 11. FUNE PINC LEVEL Sciow Land Surface Red/brown Clayer Same (wet) 18' 45' 11. FUNE PINC LEVEL Sciow Land Surface Red/brown Clayer Same (wet) 18' 45' 11. FUNE PINC LEVEL Sciow Land Surface Red/brown Clayer Same (wet) 18' 45' 11. FUNE PINC LEVEL Sciow Land Surface Red/brown Clayer Same (wet) 18' 45' 11. FUNE PINC LEVEL Sciow Land Surface Red/brown Clayer Same (wet) 18' 45' 11. FUNE PINC LEVEL Sciow Land Surface Red/brown Clayer Same (wet) 18' 45' 11. FUNE PINC LEVEL Sciow Land Surface Red/brown Clayer Same (wet) 18' 45' 11. FUNE PINC LEVEL Sciow Land Surface Red/brown Clayer Same (wet) 18' 45' 11. FUNE PINC LEVEL Sciow Land Surface Red/brown Clayer Same (wet) 18' 45' 11. FUNE PINC LEVEL Sciow Land Surface Red/brown Clayer Same Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Level Red Red Level Red Red Level Red Red Level Red Red Level Red Red Level Red Red Level Red Red Level Red Red Level Red Red Level Red Red Red Level Red Red Level Red Red Red Red Red Red Red Red Red Red				• •								0,000
Marrier   Handy Pentry #86K/Cloud's Chevron/Sitle   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./1600 Two Notch   Street Address: 2367 Taylor St./			AC 22	Home:	\ <u></u>	- WELL DEF	TH (completed	1)	Date Started:		9/2	:0/ZUU6
Street Address: 2387 Taylor St./1600 Two Notch City: Columbia, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: COLUMPIA, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC 2ip: Columpia, SC				ude Cheum	n/Site		46	•	Data Camplet	tari•	19/1	5/200e
City: Columbia, SC   Zip:   Cable Fool   Coler   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Colu		•							Tare Countries		144	WE000
City: Columbia, SC Zp: COINTY: Richards: 81°00.97  3. SYSTEM NUMBER: 91°00.97  3. SYSTEM NUMBER: 1°00.97  3. SYSTEM NUMBER: 1°00.97  3. SYSTEM NUMBER: 1°00.97  4. CUTTING SAMPLES: 1°00 No  Geophysical Logs: 1°00 No  Formation Description 1°10 No  Red/brown clayery sand 2°7  Yellow to gray clayery sand (wet) 18'  45'  7. PUNPING INVERTIGATION: 1°00 No  18'  18'  18'  18'  18'  18'  18'  18			arri iaya		NOUII		,		ary			
COUNTY: Richland   Lethaut: 34°0.77   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds: 81°0.97   Longituds:	City:	Columbia.	SC	Zio:			Tool					
Latitude: 34°00.77 Longitude: 81°00.97  3. SYSTEM NUMBER: SYSTEM NUMBER: Type: Steel Galvanized Geophysical Logs: System Number: Steel Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother Gother		•		_ <del>-</del>					T		-	
Type:			Longitude:	81°00.97		1		<del></del>	Height: Above	e/Below		
Steel   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Othe				<del></del>	<del></del>	-	PVC	☐ Galvanized	_			į
A CUTTING SAMPLES:	L					] "-					_	
Secontribution   Thickness of Stratum   Stratum   Stratum   Stratum   Stratum   Stratum   Stratum   Stratum   Stratum   Stratum   Stratum   Stratum   Stratum   Stratum   Stratum   Stratum   Stratum   Stratum   Stratum   Stratum   Stratum   Stratum   Stratum   Steve Analysis   6. and   10. 1.	4. CUTTING	SAMPLES:	☐ Yes	<b>✓</b> No		] <u> </u>	in. to45	feet depth		☐ Yes	Z	No
Trickness of Stratum   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Strea						,						
Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum   Solution of Stratum	Geophysic	zai Logs:	☐ Yes	₩ No								
Stratum Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stratum  Stra		mation Door	intion	*Thickness of								<b>—</b>
Red/brown clayery sand 27 27 Sieve Analysis		maduuti Lessuli	gratel I		DOMONII OI							
Yellow to gray clayey sand (wet)  18' 45'  13. FURPING LEVEL Below Land Surface	<b>1</b>	h				7		ft. and	<u>_</u> ft.			!
Yellow to gray clayey sand (wet)  13. FUBIFING LEVEL Below Land Surface  13. FUBIFING LEVEL Below Land Surface  14. WATER GUALITY  Chemical Analysis   Yes   No Bacterial Analysis   Yes No    15. ARTHFCIAL FILTER (filter peach)  16. WELL GROUTED?   Yes   No Bacterial Analysis   Yes No    17. REARBEST SOURCE OF POSSIBLE CONTAMINATION: 1. direction  18. FUBIFIED Date Installed: Not installed   Not installed    18. FUBIFIED Date Installed: Not installed   Not installed    18. FUBIFIED Date Installed: Not installed   Not installed    19. WELL GROUTED?   Submarable   Length of drop pipe   1. Capacity   gpm    19. Well DRILLER: Robyn Bardey CERT. NO.: 934  Address: 2445 Webson   Elgin, SC 29045  Telephone No.: (803)438-1331  20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and bellef.  Signed: WAYER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and bellef.	Ked/	urown claye	y sand	27'	27'	Sieve Ans	ysis Vater i exer	☐ Ye	s (please enoio	90)		No No
12. FURIFING LEVEL Below Land Surface   R. after   hrs. Puring   G.P.M.	Yellow to	gray clayev	sand (wet)	18'	45'				_ ft. below land	surgace after 24	hours	
Pumping Test:												
Yield:   14. WATER GUALITY   Chemical Analysis   Yes   No   Bacterial Analysis   Yes   No   Please enclose lab results   18. ARTHFICIAL FILTER (filter pack)   // Yes   No   Installed from												Ca No
14. WATER GUALITY   Chemical Analysis   Yes   No   Bacterial Analysis   Yes   No   Please enclose lab results				]		Yleid:		H TE	o Ansasa sucio	<del>00/</del>		MZI NO
Please enclose lab results  18. ARTHFICIAL FILTER (filter peck) Installed from 44 ft. to 45 ft.  Effective size Uniformity Coefficient  10. WELL GROUTED? Yes No No hast Cement Sand Cement Concrete Officer Depth: From 10 ft. to 40 ft.  17. NEAREST SQUICE OF POSSIBLE CONTAMINATION: ft. direction Type well distrinated Yes Type: unpen completion No Amount:  18. PUMP: Date Installed: Not Installed Miff. Name: Model No.: H.P. Voits Length of drop pipe ft. Capecity gpm Type: Submersible Jet (shallow) Turbine Jet (deep) Reciprocating Centrifugal  18. WELL DRILLER: Robyn Barkley CERT. NO.: 834 Address: 2485 Watson Eigh, SC 29045  Telephone No.: (803)438-1331 20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was diffied under my direction and this report is true to the best of my knowledge and bellef.		<del></del>				14. WATER C						
18. ARTIFICIAL FILTER (filter pack)   Yes   No   Installed from   44   15   16.   Effective size   Uniformity Coefficient     16. WELL GROUTED?   Yes   No   No   Neat Cement   Concrete   Other   Depth: From   10 ft. to   40 ft.   17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:   ft.   direction   Type well distributed   Yes   Type:   unipon completion   No   Amount:   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Installed   Not Install									o Bacterial A	\naiysi∐ Yes	No.	3
Installed from 44 ft. to 45 ft.    Installed from 44 ft. to 45 ft.   Installed size					ļ				✓ Yes	□ No		
16. WELL GROUTED?   Yes   No   No   West Cement   Sand Cement   Concrete   Citier						Installed f	rom		ft. to	45	ft.	
Neat Cement   Sand Cement   Concrete   Citier							ize	Tel Van		efficient		
Depth: From 10 ft. to 40 ft.  17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. directler  Type well disinfected   yes Type:					ļ		ement 🗆 S	and Cement 🗀		Other		
Type well disinfected Yes Type:  unpon completion No Amount:  18. PUMP: Date Installed:  Mifr. Name:  Model No.:  H.P. Volts Length of drop pipe ft. Capacity gpm Type: Submersible Jet (shallow) Turbine  Jet (deep) Reciprocating Centrifugal  19. WELL DRILLER: Robyn Barkley CERT. NO.:  Address: 2485 Watson Elgin, SC 29045  Telephone No.: (803)438-1331  29. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.  Signed: When Dauley Date: 12/27/2008						Depth: Fr	rom	1	O ft. to	40	ft.	
Indicate Water Bearing Zones   Clae   a 2nd sheet if needed)   Telephone No.:   (803)438-1331   20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and bellef.						17. NEARES					-	direction
18. PUMP: Date Installed:   Not Installed   Mir. Name:   Model No.:   Model No.:   H.P.   Volts   Length of drop plpe   ft. Cepecity   gpm   Type:   Submersible   Jet (shellow)   Turbine   Jet (deep)   Reciprocating   Centrifugal   19. WELL DRILLER:   Robyn Barkley CERT. NO.:   934				1	ļ	<u> </u>		Ahe men disiuled	Notes in the second second second second second second second second second second second second second second	ype:  Amount:		
Mifr. Name:   Model No.:				<u> </u>				E		Not installed	N	
Type: Submersible Stephone Stephone Stephone Stephone Stephone Stephone No.: Stephone No.: Stephone No.: Stephone No.: Stephone Stephone and this report is true to the best of my knowledge and belief.	· · · · · · · · · · · · · · · · · · ·		·····					I amount of the				
Jet (deep)   Reciprocating   Centrifugal					ļ					_ TL Capacity TTurbina		— abw
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)  5. REMARKS:  Telephone No.: (803)438-1331  20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.  Signed:   **DayLey** Date: 12/27/2006**							Jet (deep)	□Recipn	ocating	☐ Centrift	ıgal 💮	
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)  5. REMARKS:  Telephone No.: (803)438-1331  20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.  Signed:  **Dayley** Date: 12/27/2006**						19. WELL DR	HLLER:		y CERT. NO.:			
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)  5. REMARKS:  Telephone No.: (803)438-1331  20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.  Signed:   **Down** Date: 12/27/2006**					ļ	Address:						
a 2nd sheet if needed)  5. REMARKS:  Telephone No.: (503)438-1331  20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.  Signed:   Signed:   Date: 12/27/2006	Indicate Wa	nter Bearing Zo	ones (Use			1		<del></del>				i
20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.  Signed:     Barley   Date: 12/27/2006						]						
direction and this report is true to the best of my knowledge and belief.  Signed: Rolly Burley Date: 12/27/2006	5. REMARK	S:										
Signed: Rolya Barkley Date: 12/27/2006											under	my
						THE CONTROL	ano iohait m (i)	ne in ing hasi di	my moments (	ew voiçi.		
						n	1 1	. 11				
						Signed: 16	tra 13	whlen	Date:	12/27/2008	<u>.                                    </u>	i
							zad Representativa					



4 MELL ON	NER INFORM	EATION:			C. PERMIT NU	HABED.	877	,			
L		ia non: Environment	al Grown In		e. PERMIT NO	miner.	011				
Name:	Paintetto E	=nvironment (last)		C. (first)							
Address:	P. O. Box	<del>4</del> 27			7. USE:					· . — — — — — — — — — — — — — — — — — —	
-					Reside	ntiai	☐ Public S		Process		
City:	Eigin	State:	SC	Zip:29045	☐ irrigatio		☐ Air Con	-	□Emerge	-	
	-				☐ Test W		☐ Monitor		☐ Reptace		
Telephone: \			Home:		8. WELL DEP	TH (completed	)	Date Started:		9/28/20	006
ł .	N OF WELL:		n - 61	<b>1054</b>		4.00				4000	7.A.A
Name:	-	ntry #65/Clo	ud's Chevro	n/Site		45	.ft.	Date Complet		12/15/20	UUG
Street Add	ireas:	2367 Taylo	r St./1600 i	wo Notch	9. Mud Re	otary	☐ Jetted		☑ Bored ☐ Driven		
	Oakaabla	00			□Dug □Cable	Paul	□Air Rota □Other	er <b>y</b>	CIDUAGU		
City:	Columbia, Richland	<b>SC</b>	Zip:		10. CASING:			T	· · · · · · · · · · · · · · · · · · ·	·	
		Longitude:	04000 07			m (theanen		Height: Above	/Dolow		
3. SYSTEM		SYSTEM NU		<del></del>	Diam.:	<b>☑</b> PVC		Surface			
3. 815 IEM	name:	STOLEM NU	MBERC		Type:	©Steel	☐ Other	Weight			
4. CUTTING	SAMDI ES-	☐ Yes	☑ No		<b>ተ</b>		feet depth			- ☑ No	
T. WI IMG	OFMILES:	∟ 168	GT 140			in. to		Dilite Situe?	m (69)	GT 140	
Georgiusia	cal Logs:	☐ Yes	<b>☑</b> No		11. SCREEN	ut. 19	-eer debill		<del></del>		
	nine semiliare	100	7	Depth to	Туре:	PVC		Diem.:	4" 20'		
Fo	rmation Deacri	iption	*Thickness of Stratum	Bottom of	Sint/Gauns	.020		Length:	20'		
				Stratum	Set Between	en: <u>1</u>	ft. and 10 ft. and	_ ft. ft.			
Red/	brown claye	y sand	27	27'	Sieve Anal	yels	Ye	_ 11. <b>_ 11.</b>	se)	<b>[7</b> ]	No
					12. STATIC V	VATER LEVEL					
Yellow to	gray clayey	sand (wet)	18'	45'	AS SINANCE	TEVEL BALAN	Land Surface	_ ft. below land	surgace after 24	hours	
							_ hrs. Pumping		G.P.M.		
<del>                                     </del>					Pumping 1		Ye	s (please enclo			No
					Yleid:				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
		!			14. WATER C Chemical		]Yes ☑ No	Ronterial A	nalveli Vee	No.	
<del> </del>			<del>                                     </del>		7 Please on	close lab resul				. ~ 4	
					18. ARTIFICI	IL FILTER (献	er pack)	✓ Yes	□ No		
j					Installed fi	rom	44	ft. to Uniformity Co	45	ft.	
<del>                                     </del>	<del></del>				16. WELL GR	OUTED?	✓ Yes	☐ No	omeroi ii		
					Neat C	ement 🔲 S	and Cement 🗆	Concrete	Other		
					Depth: Fr	om	1( POSSIBLE CO	) ft. to	40	ft.	
					17. NEAREST		ype well disinfec			are	CUON
							HITTON COMM	tetion 🔽 No	Amount:		_
						Date Installed	:		Not installed	Z	
					Mfr. Name H.P.	volts	Length of drop	Model No.: _	ft. Capacity		
ł			Į l			Submersible	_ resultin ou groch		nr. Capacity Turbine		gpm
		**************************************			7 " 0	Jet (deep)	□Recipro	cating	☐ Centrifu	gal	
		<del></del>			19. WELL DR			y CERT. NO.:	934		
1					Augress:	2485 Watson Elgin, SC 29					
Indicate W	ater Bearing Zo	ones (Liee			1						
	and sheet if ne				_						
S. REMARK	8:	-			Telephone		(803)438-1331		for some the some in the last		
ł							ACTOR'S CERTI ue to the best of		is well was drilled	unaer my	
					THE COUNTY OF THE	nna le <b>hair ia</b> ()	no to the nest Ot	nd moundings	arm Manul.		
Ī					1	1 1	10				
1					Signed: No	In B	arbles	_ Date:	12/27/2006	<u> </u>	_
1						ked Representative					_
					<del> </del>						_



**Bureau of Water** 

THUM!	nic tunier i	PHUADIE.M									
1. WELL ON	MER INFORM	MATION:			6. PERMIT NU	MBER:	877				
Name:			al Group, in	C. (first)							
Address:	P. O. Box	• •			7. USE:						
		- <del></del>			☐ Resider	ntial	☐ Public S	upply	Process		
City:	Elgin	State:	sc	Zip:29045	□Imigatio		☐ Air Cond		☐ Emerger		
J	—g.,				☐ Test W		☐ Monitori	•	Replace	-	
Telephone: 1	Work:		Home:		8. WELL DEP			Date Started:			/2006
	N OF WELL:			<del></del>	1		•				
Name:			ud's Chevro	n/Site	1 4	15	_ ft.	Date Complete	d:	12/15	/2006
Street Add	-		or St./1600 T		9. Mud Ro		Jetted		✓ Bored		
							□Air Rota	rv	□Driven		
City:	Columbia,	sc	Zip:		□Cable 1	[oct	☐Other	•			
	Richland		-w		10. CASING:		Welded	T			
Latitude:		Longitude:	81º00 07		į.		48	Height: Above/	Rolow		1
3. SYSTEM		SYSTEM NU			Diam.:	<b>☑</b> PVC		1 -			
J. OTO I EM	rame:	OTO!EM NU	mger:		Туре:		☐ Galvanized				
		<del></del>	121	<del> </del>	4 ^	□ Steel	Other	Weight			
4. CUTTING	Samples:	☐ Yes	☑ No		0			Drive Shoe?	☐ Yes		10
			<del></del>			in. to	feet depth	J			
Geophysic	al Logs:	☐ Yes	☑ No	N4	11. SCREEN	D1.60		Di	Aπ		
En	nnation Descri	intion	Thickness of	Depth to Bottom of	Type: Siot/Gauge	PVC .020		Diam.: Length:	4" 20'		
· ~	ination Descri	ipeon	Stratum	Stratum	Set Betwee		ft. and 10	ft.	20		
<del></del>	****						ft. and	Ť.			
Red/	brown claye	y sand	27'	27'	Sieve Anal	eis	☐ Yes	(please enclose	9)		Z) No
V-11			401	A 291	12. STATIC W	ATER LEVEL	,				
1 BHOW TO	gray clayey	sand (wet)	18'	45'	43 BITMBINA	TeVE Onto	Land Surface	TL below land s	urgace after 24 h	iours	
l									GPM		
		· · · · · · · · · · · · · · · · · · ·			Pumping T		_ noc. remipely Yes	(please enclose	) 3)	1	Z No
			<u> </u>		Yield:			4	•		
					14. WATER Q						
}				<del></del>	Chemical /	Analysis [	IYes ☑ No	Bacterial An	alysi□ Yes	No	
}					18. ARTIFICIA	close lab result		V Yes	□ No		
<u> </u>	· · · · · · · · · · · · · · · · · · ·		·		Installed fr	om	44	ft. to		îL.	
			<u> </u>		Effective s	Ze .		Uniformity Coe			
					16. WELL GR	OUTED?	Yes Yes	□ No			
		<del></del>	<b>_</b>				and Cement		Other40		
<b>.</b>			<b> </b>		Depth: Fr	MU BUE HE	POSSIBLE CO	ft. to			firection
<del> </del>										'	au waind l
<u></u>							unpon comp	letton 🔽 No	Amount:		
					18. PUMP:	Date installed	ype well disinfect unpon compl :		Not installed	Z	
<u> </u>	<del></del>		<b>_</b>		_ NRT. NEITRE	: Volts	Length of drop	Model No.:			
ł			ļ †		H.P.	Submersible	_ Lengtn or arop ∐Jet (sha		ft. Capacity  Turbine		_ gbw
			<b></b>	<del></del>		Jet (deep)	☐Recipro		☐ Centrifu	gai	
					18. WELL DR	ILLER:	Robyn Barkley		934		
					Address:	2485 Watson					
*e	-4 D				4	Elgin, SC 290	<b>J45</b>				•
	nter Bearing Zo										
S. REMARK	ind sheet if ner	oueu)	1	L	-	No ·	/B03/438.4334				
T. REMARK	g.				Telephone 20. WATER W		(803)438-1331 ACTOR'S CERTI	FICATION: The	well was drilled	under n	nv
Ī							se to the best of r				••1
1								.,			
İ					. م	1					
ĺ					Signed:	man Bar	Klem	_ Date:	12/27/2006		
						egii Representative					



# **Bureau of Water**

Lacria en	C LUMBER 1	KUSTA.N	ł							
1. WELL OWN	ER INFORM	ATION:			6. PERMIT NU	MBER:	877	r		
•			al Group, In	C. (first)		—	_,,			
Address: I	P. O. Box 4	• •		- •	7. USE:					
					□Resider	<b>ntial</b>	☐ Public S	<b>Supply</b>	<b>☑</b> Process	3
City: E	Elgin	State:	SC	Zip:29045	☐ (rrigatio	n	☐ Air Cond	ditioning	☐ Emerge	incy
					☐ Test W	ell	☐ Monitori	ng Well	☐ Replace	
Telephone: W			Home:		8. WELL DEP	TH (completed	Ŋ	Date Started:		9/28/2006
2. LOCATION	OF WELL:	AS-26	<del></del>		7					
Name:	Handy Pan		ud's Chevro			15	ft.	Date Complete		12/15/2006
Street Addre	189:	2367 Taylo	or St./1600 T	wo Notch	9.   Mud Ro	xtary	□Jetted		<b>☑</b> Bored	
					□Dug		☐Air Rota	ury	□Driven	
	Columbia,	SC	Zip:		☐Cable 1		☐Other		10-11-11-11-11-11-11-11-11-11-11-11-11-1	
COUNTY: 1			_		10. CASING:	Threaded	Welded	1		
		Longitude:		-	Diam.:		1"	Height: Above		
3. SYSTEM NA	ME:	SYSTEM NU	MBER:		Туре:	<b>☑</b> PVC				
	<u>, , , , , , , , , , , , , , , , , , , </u>				J	☐ Steel	☐ Other	Weight		
4. CUTTING S	AMPLES:	☐ Yes	✓ No		0	in. to 45		Drive Shoe?	☐ Yes	☑ No
						in. to		<u></u>		
Geophysical	Logs:	☐ Yes	✓ No		11. SCREEN					
	ation Descri	ntion	*Thickness of	Depth to Bottom of		PVC .020		Diam.: Length:	4" 20'	
l rom	HEUUTI LIBROTT	PURT	Stratum	Stratum		: <u>.020</u> en: 1	ft. and 10			
<u> </u>							ft. and	n.		
Red/br	own claye	y sand	27'	27'	Sleve Anal	yels	☐ Yes	s (please enclos	<del>(e)</del>	<b>⊘</b> No
Yellow to g	rav alasses	cond had	18'	45'	12. STATIC VI	ATER LEVEL		6 halandard	An 1956 And And And And And And And And And And	hand
I SHOW TO B	ay ciayey	OGIN (WOI)	10	40	13. PUMPIMA	LEVEL Robus	Land Surface	_ IL DEIOW IBING	surgace after 24	ilanig
<u> </u>				ļ			_ hrs. Pumping		G.P.M.	
					Pumping T	l'est:	☐ Yes	s (please enclos	se)	<b>⊠</b> No
<b>}</b>	<del></del>				Yield:	NATED -				
Ī			]	ļ	Chemical	juali († Anglesia (†)	Yes 🔽 No	Rectarial A	neival Ves	No[Z]
					Please end	ciose lab result	is			. 10
<u></u>					16. ARTIFICIA	L FILTER (III)	er peck)	✓ Yes		
ł				•	Installed fr	rom	44	ft. to Uniformity Coe	45	ft.
						OUTED?	☑ Yes	Uniformity Coe  ☐ No	SILICISIN	
<u> </u>							and Cement 🗆	Concrete	Other	
					Depth: Fro	om	10	ft. to	40	ft.
	·····				17. NEAREST	SOURCE OF	POSSIBLE COI ype well disinfect	NTAMINATION:	ft.	direction
			<b>j</b>				ype well disinfect unpon compl	letion 171 No.	Amount:	
		··· · · · · · · · · · · · · · · · · ·			18. PUMP:	Date Installed			Not installed	Z
	<del></del>					*				
				ţ	H.P.	Volts Submersible	_ Length of drop ☐Jet (sha		_ ft. Capacity ☐Turbine	gpm
	: 2			·		Jet (deep)	☐Recipro		☐ Centrifu	
					19. WELL DR	ILLER:	Robyn Barkley		934	
					Address:	2486 Watson Eigin, SC 290				!
*Indicate Wate a 2nd	r Beering Zo I sheat If nee									
5. REMARKS:					Telephone		(803)438-1331			
- -							CTOR'S CERTI to the best of r		is well was drilled and belief.	under my
					Signed: R	lun B	arbler -	Date:	12/27/2006	;
				<del></del>		red Apresentative				



POLENCE !	OIR PROTECT	PHUSITER	<b>\</b>									
1. WELL OW	VNER INFORM				6. PERMIT NU	MBER:	877	· — — — — — — — — — — — — — — — — — — —	<del>_</del>	_		
Name:	Palmetto E	Environmenta (laet)		C. (first)							-	
Address:	P. O. Box			-	7. USE:							
					Resider	ntial	☐ Public 8	•••	Process			
City:	Elgin	State:	SC	Zip:29045	☐ irrigation	π	☐ Air Cond	-	☐ Emerger	•		
•	-				☐ Test We		☐ Monitoria		☐ Replace		<u></u>	
Telephone: \			Home:		8. WELL DEP	TH (completed)	)	Date Started:		9/2	28/20	)0 <u>6</u>
2. LOCATIO	N OF WELL:				1				_			
Name:	-	ntry #65/Clo				15	ft.	Date Complete		12/1	5/2(	<u> 106</u>
Street Add	iress:	2367 Taylo	or St./1600 T	wo Notch		ntary	□Jetted		Bored			
	<u>.</u>				Dug	<b>y</b>	☐Air Rota	u <b>y</b>	□ Driven			
City:	Columbia,	SC	Zip:		□Cable T		☐Other ☐	<del></del>				
-	Richland		04800		10. CASING:	□ (Treaded	Welded	Maren at	Oplan.			
Latitude:		Longitude:			Diam.:	<b></b>	<u>1"                                    </u>	Height: Above				
3. System	NAME:	SYSTEM NUI	MBER:	_	Type:	☑PVC	☐ Galvanized					
					-	☐ Steel	Other	Weight			<b>B.P</b> -	
4. CUTTING	SAMPLES:	☐ Yes	✓ No		0			Drive Shoe?	☐ Yes		NO	
			<b></b>		42.22	in. to	feet depth					
Geophysic	cal Logs:	☐ Yes	1.		11. SCREEN	PVC		Diam.:	<b>4</b> ^u			
E	rmation Descri	iption	*Thickness of	Depth to Bottom of	Type: Sint/Gauge		<del>-, · · · · · · · · · · · · · · · · · · ·</del>	Length:	20'			
			Stratum	Stratum	Set Betwee		ft. and10	_ ft			_	
	henre	W	~~		1		fi. and	_ ft. _ (closes engles	an)			
Red/	brown claye	y sand	27'	27'	Sieve Analy	ysis VATER LEVEL	☐ Yex	s (please enclos	ze)		7	No
Yellow to	gray clave	y sand (wet)	18'	45'				ft. below land	surgace after 24 h	iours	_	-
		- (	<del></del> -	<u> </u>			v Land Surface	<del></del>				
			<b></b>				_ hrs. Pumping	o (alcone apalae	G.P.M.		<del></del>	<b>p.</b> •
<b>_</b>	<del></del>	. <del></del> .		1	Pumping T Yield:	1620.	☐ Yes	s (please enclos	<b>196)</b>		<b>Z</b>	NO
<b>—</b>	<u></u>		<del>[</del>	<del> </del>	14. WATER Q		<del></del>		<del></del>	******		
-	-				Chemical /	Analysis 🗀	Yes 🕢 No	Bacterial A	nalysi Yes	No₩	3	
				1		close lab result		✓ Yes	□ No			
<del></del>			<del> </del>	<del> </del>		AL FILTER (IIII IOM		ft. to	LI NO 45	fL.		
<u>L</u>			<u></u>		Effective s	dze		Uniformity Co				_
					16. WELL GR	OUTED?		□ No				
<u></u>	<del></del>			<b></b>	Depth: Fr		and Cement 🗆	Concrete 🔲 (	Other			
			1	1	17. NEAREST	r source of	POSSIBLE CO	NTAMINATION	t.	IL.	direc	ction
<u> </u>	<del></del>	·	1	<del> </del>								
<u> </u>	·····	<del></del>					ype well disinfect unpon comp i:	eletion 🔽 No	Amount:	T-		
1			1		18. PUMP: Mfr. Name	Late installed	·	Model No.:	Not installed	1		
	<del></del>	<del></del>		<del> </del>	H.P.	Volts	Length of drop		ft. Capacity			gpm
			<u> </u>		Туре: 🔲	Submersible	☐Jet (sha	allow)	□Turbine			
				1	19. WELL DR	Jet (deep)	Recipro		☐Centrifu 934		···	<del></del>
			<del> </del>	<del> </del>		dLLER: 2485 Watson		y CERT. NO.:	934	•		
				<u> </u>		Elgin, SC 290						
	ater Bearing Z	•	1		1							
a 2	2nd sheet if ne	•	<u>L</u>	<u></u>	4 _	. 4	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
5. REMARK	<b>S</b> :				Telephone		(803)438-1331 ACTOR'S CERTI		الله معبد الجيو أ	1994	· Ihe-	
	• .						ACTOR'S CERTI ue to the best of I		nts well was drilled and belief.	. wrder	ııl <b>y</b>	
						wpat 85 U	usu wedi Uf	,				
					1	1 -	10					
					Signed: RA	son B	Ellen -	Date:	12/27/2006	<u></u>	_	
					Authori	zer Representative						
<del></del>	<del></del>	<del></del>			<del></del>	<del></del>	<del></del>					



## **Bureau of Water**

- THEOLOGY	OIR LANGE	THANKE A	<u> </u>							
1. WELL OW	MER INFORM	MATION:			G. PERMIT NU	MDER:	877			
Name:	Palmetto I	Environment (last)	tal Group, In	C. (first)						
Address:	P. O. Box			···	7. USE:		<del> </del>			
					□Reside	ntial	☐ Public S	uppiy	Process	,
City:	Elgin	State:	sc	Zin:29045	□Imigatio		☐ Air Cond		☐ Emerge	
					☐ Test W		☐ Monitori		Replace	
Telephone:			Home:		8. WELL DEP			Date Started:		9/28/2006
2. LOCATIO	N OF WELL:				]					
Name:	Handy Pa		ud's Chevro			5	, ft.	Date Complete		12/15/2006
Street Add	iress:	2367 Taylo	or St./1600 T	wo Notch	9. Mud Ro	tery	□Jetted		☑ Bored	
					□Dug		MAir Rota	ry		4
City:	Columbia,	SC	Zip:		☐Cable T		☐ Other			
	Richland				10. CASING:	☐ Threaded	<b>☑</b> Welded			
		Longitude:					1"	Height: Above/		
3. SYSTEM	NAME:	SYSTEM NU	MBER:		Туре:	<b>☑</b> PVC		Surface		
		= = :	12	· · · · · · ·	4 .	☐ Steel	☐ Other	Weight		·
M. CUTTING	SAMPLES:	☐ Yes	<b>☑</b> No		0			Drive Shoe?	☐ Yes	2 No
Geophysic	eat Loge:	☐ Yes	✓ No		11. SCREEN	in. to	ieei vepin	L		
			*Thickness of	Depth to	Type:	PVC	<u>.</u>	Dlam.:	4"	
Fo	rmation Descri	iption	Stratum	Bottom of	Slot/Gauge	.020	6 mm 45	Length:	20'	
				Stratum	OBY DETAILOR	n: <u>1</u>	ft. and 10	_1%. 1%.		
Red/	brown claye	y sand	27	27'	Sieve Analy	/sis	T Yes	(please enclos	9)	☑ No
Yellow to	gray clavev	sand (wet)	18'	45'	12 STATIC W	ATER LEVEL		ft. below land s	urgace after 24 i	nouris
							Land Surface			
				<u> </u>	J	ft. after	hrs. Pumping		G.P.M.	
					Yield:	'est:	☐ Yes	(please enclos	B) 	<b>☑</b> No
		<del> </del>			14. WATER Q					
						Analysis 🗆 Siose lab result	lYes ☑ No R	Bacterial An	elysi□ Yes	No.  Z
					18. ARTIFICIA	L FILTER (市)	er pack)	✓ Yes	☐ No	
					Installed for	om	44	ft. to	45	fit.
					Effective s	ze Olitiene	✓ Yes	Uniformity Coe	mcient	
					Neat Co	ement 🔲 Se	ind Cement 🗀	Concrete 🗆 (	Other	
	···				Death: Fro	98N	10	ft. to	40	ft.
<b></b>	<del></del>				17. NEAREST	SOURCE OF	POSSIBLE CO	NYAMINATION:	n. 11.	direction
					l ——		pe well disinfect	eull tes ly letion 1271 No	Amount:	<del></del>
	·····				18. PUMP:	Date Installed:	pe well disinfect unpon compl		Not installed	Z
						•		14100011100		
					H.P.	VoltsSubmersible	Length of drop		ft. Capacity  Turbine	gpm
						Jet (deep)	☐Recipro	cating		
					19. WELL DR	LLER:	Robyn Barkley		934	
					Address:	2485 Watson Eigin, SC 290	45			
	ater Beering Zo and sheet if neo	• • • • • •				<u> </u>				
5. REMARK		· · · · · · · · · · · · · · · · · · ·	<u> </u>	<u> </u>	Telephone	No.:	(803)438-1331			
					20. WATER W	ELL CONTRA	CTOR'S CERTIL to the best of r	FICATION: This		under my
					Signed: Rul	Be Be	bla.	Date:	12/27/2006	
					Authory	ed Representative				· · · · · · · · · · · · · · · · · · ·
<del></del>	· <del>·</del>	<del></del>			<u> </u>	·····				



					Ta =====				6-2			<del></del>			
	NER INFORM				e. PERMIT	NU	MBER:		877						
Name:		(last)	zai Group, Ind	C. (first)											
Address:	P. O. Box	427			7. USE:										
					□Res	siden	<b>tini</b>		Public Si			Process			
City:	Elgin	State:	SC	Zip:29045	□lmig	ration	7		Air Cond			] Emerger	•		
-					□Tes				Monitorir			Replace			
Telephone: V	Work: N OF WELL:		Home:	<del></del>	8. WELL D	DEPI	TH (completed	0	<b></b>	Date Start	ed:		9/2	8/20	106
			سرام کام	n/0#=	1	<b>A</b> 1	5	ft.		Date 0	nictad.		12/1	EM.	100
Name:	-		ud's Chevro or St./1600 T		8. LiMud				Jetted	Date Com		Bored	141	<u> 412(</u>	.00
Street Add	4 CC).	ZOOT I BYK	ו ממסו דובי יי	AU MOICU	B. LIMUS		was y		iJetted <b>İAi</b> r Rotai	T.		] Driven			
Cit-	Columbia,	SC	7h·			•	noi		i <i>r</i> ar kotat l'Other	• 7	L				
City:	Richland	30	Zip:				□ Threaded	₩e		<del> </del>					
		Longitude:	81º00 07		1 .			1º		Hainht At	ove/Below				
2. SYSTEM		SYSTEM NU			Diam.:		<b>☑</b> PVC			-	overpelow				
- 915 (EM		otolem RU	ni <b>ser</b> i		Туре:	_	⊠PVC □Steel	Li Gai		Surrace . Weight _					
4. CUITING	QAMBI EC-	☐ Yes	☑ No		1					Drive Sho		Yes	$\square$	No	
VUI 1111G	erust LEDE	<b>₩ 198</b>	ELI NO			_¥	in. to		et depth et depth	Pilue 200	v: 🔟	1 55	الكتا	UF	
Gannhair	zi Logs:	☐ Yes	☑ No		11. SCRE	EM	u. W	10€	or notice	<del></del>	<del></del>	<del> </del>			_
Soupriyett	-a	L Tes		Denth to	Type:		PVC			Dlam.:	<b>4</b> "	_	_		
For	mation Descri	ption	Thickness of Stratum	Bottom of	Slot/Ga	augo:	.020		<b>-</b>	Diam.: Length:	4" 20'			_	
			OURILIN	Stratum	Set Bet			it. and	_10_	_ft.			-		
Red/h	brown claye	v sand	27'	27'	Sieve A	\naiv	rsis	ft. and		ft. (please en	(close)				No
					12. STATI	cw	ATER LEVEL	<del></del>				<del></del>	<del></del>		. 40
Yellow to	gray clayey	sand (wet)	18'	45'						ft. below is	and surgace	after 24 h	ours		
i	-			!	13. PUMP		LEVEL Below		urtace						
	····		<del> </del>	<b></b>	Pumpir	no T	fil. after est:			(please er	G.P.W ndose)	n.		<b>Z</b>	No
					Yield:	_			···					<b></b> -	
				1	14. WATE						-1.0:				
<del></del>	·			<b></b>	Chemi	ical A	Analysis 🔲 Hoge leb result	i Yes	₩ No	Bacteri	al Analysi□	Yes	No	1	
				1	18. ARTIF	TCIA	L FILTER (filter	er pack)		✓ Yes		No			
					Installe	ed fro	om			ft. to	45		ft.		
		<del> </del>	<b></b>	<u> </u>	Effective Effective	ive siz	Z8			Uniformity	Coefficient				
ł				ţ	10. WELL	at Co	OUTED? ement 🛘 Se	Mq Co  Z] /	res tent∏	Concrete !	] Other				
			<b> </b>	<del></del>	Depth:	: Fro	om.		10	ft. to		40	ft.		_
			<u> </u>		17. NEAR	EST	SOURCE OF		BLE COR	TAMINAT		11.	_	direc	tion
		. –	[7]	1				1 8000	asinfect	ed Yes	Type: No Amor	mol-			
	<del></del>	· · · · ·	<del></del>	<del> </del>	18. PUMP	;	Date Installed	unip)		etion 🔽		um: installed	<del>N</del>		
			L		Mfr. No	ame:	:			Model No.	<u>.</u>				_
				1	H.P.	_	Volts_		h of drop			pecity		_	gþm
<del> </del>	<del></del>		<del> </del>	<del> </del>	- iype:		Submerelble Jet (deep)		]Jet (shal ]Reciproc			<b>]Turbine</b> ]Centrifug	naf		
			L \	<u></u>	19. WELL	. DRI	LLER:	Robyr		CERT. NO		934			
						GS: :	2485 Watson Eigin, SC 290	•	<b>-</b>						
	nter Bearing Zo				1		J 22 200								
a 2 5. REMARKS	nd sheet if nee	-ueu)	1	L	Teleph	Jene	No ·	/B02\4	28.4224						
or remarks	<b>5</b> .						ND.: ELL CONTRA		138-1331 8 CERTI	FICATION:	This was u	as drilled	under	mv	
					1		his report is tru							<b>y</b>	
					1	_				<del>-</del>					
						n A	1 1	11							1
					Signed: Z	(de		alley		Date:	12/2	27/2006			
l			****		A	Litrories	Representative								



FROM	OIS PROTECT	TICIMITE R									
1. WELL OW	NER INFORM				6. PERMIT NU	MBER:	877				
Name:	Palmetto E	Environment (last)	zai Group, Ind	C. (first)							
Address:	P. O. Box			7	7. USE:						
]					Resider	ntiai	☐ Public 8	upply	Process		
City:	Elgin	State:	SC .	Zip:29045		n	☐ Air Cond		☐ Emerger		
	_	· <del>-</del>		·-	☐Test We		☐ Monitori	ng Well	Replace	ment	
Telephone: \			Home:		8. WELL DEP	TH (completed)	)	Date Started:		9/28	8/2006
	N OF WELL:				1						
Name:	Handy Par		ud's Chevro		4		ft.	Date Complete		12/1	5/2008
Street Add	iress:	2367 Taylo	эт St./1600 Т	wo Notch	9.   Mud Ro	itary	□Jetted		<b>☑</b> Bored		
1	_				□Dug		☐Air Rota	ry	☐ Driven		
City:	Columbia,	SC	Zip:		☐Cable T		Other	<del>,                                     </del>			
	Richland		A		10. CASING:	☐ Threaded	Welded				
		Longitude:					1"	Height: Above			
3. SYSTEM	NAME:	SYSTEM NU	MBER:		Туре:	PVC	☐ Galvanized				
<u> </u>					4 -	☐ Steel	Other	Weight		,	
4. CUTTING	SAMPLES:	☐ Yes	✓ No		0			Drive Shoe?	□ Yes		No
<b>.</b>		<b>-</b> -	<b></b>		44 5	in. to	feet depth	<u></u>			
Geophysic	cal Logs:	☐ Yes		Depth to	11. SCREEN Type:	PVC		Diam.:	4"		
Fo	rmation Descri	ption	Thickness of	Bottom of	Slot/Gauge	020		Length:	20'		
		-	Stretum	Stratum	Set Betwee	n:1	ft. and 10	fi.			
Deal	hensem alma-	v sord	27	971			ft. and	īt.	201		
rea/	brown claye	y salio	21	27'	Sleve Anal	ysis /ATER LEVEL	☐ Yes	s (please enclo	90)		No.
Yellow to	gray clayev	sand (wet)	18'	45'	1			ft. below land	surgace after 24 f	tours	
[					13. PUMPING	LEVEL Below	Land Surface				
ļ		·····	ļ		-	. 11. after	_ hrs. Pumping	s (please enclos	G.P.M.	1	T2 M-
			]		Pumping T Yield:	Test:	Li Tet	- (hiesas cució	<del></del> -	•	No No
					14. WATER Q						
ļ	···	····					Yes 🔽 No	Bacterial A	nalysi□ Yes	No	1
ļ						close lab result LL FILTER (filte		✓ Yes	□ No		
			<del> </del>					ft. to	45	ft.	
					Effective s	rom ize		Uniformity Co			
					10. WELL GR	OUTED?	Z Yes	□ No	Other		
<del>                                     </del>	<del></del>	<del></del>			Depth: Fre	ementi∟iS& om	and Cement 🔲	Concrete   If. to	Other	ft.	
					17. NEAREST	SOURCE OF	POSSIBLE CO	NTAMENATION	: ft.		direction
					18. PUMP:	Date Installed	/pe well disinfect unpon compl :	euon W Nt	Not installed	<b>D</b>	
			<u></u>		MIT. Name			_ MODE! NO.:		لك	
					Н.Р	Volts	Length of drop	pipe	ft. Capacity		gpm
			ļ	<u></u>		Submersible Jet (deep)	□Jet (sha □Recipro		☐Turbine ☐Centrifu	nel	
					19. WELL DR		Robyn Barkley		Centriu 934		
· · · · · ·			<u> </u>			2485 Watson	•				
•			ļ		4	Elgin, SC 290	145				
a 2	ater Bearing Zo 2nd sheet if ne				_						
5. REMARK	<b>S</b> :				Telephone		(803)438-1331		la		
							CTOR'S CERTI to the best of t		<b>is well was drilled</b> and belief.	unaer i	ırı <b>y</b>
ł							<b></b>	,			
ţ					An	1 1	1 0				
[					Signed: Lan	an Ba	hen	_ Date:	12/27/2006		
						zes Reprosentativo					



#### **Bureau of Water**

		<del></del>	<del></del>						T	<del></del>	
1. WELL OW	MER INFORM	HATION:			6. PERMIT NU	JMBER:	877	,			
Name:	Palmetto I	Environment (last)		C. (first)							
Address:	P. O. Box	427		-	7. USE:						
ļ					☐ Reside		☐ Public 8		Process		
City:	Elgin	State:	SC	Zip:29045	□Irrigatio		☐ Air Conc	•	□Emerge	•	
					☐ Test W		□Monitori		☐ Replace		
Telephone: \		AC 24	Home:	<del></del>	8. WELL DEP	TH (completed	1)	Date Started:		9/28/2	006
	N OF WELL:		uda Cha	-/©u_		1E	4	Data Anna 1	lmele	10115	ሰለላ
Name: Street Add	•	ntry #65/Clo	ud's Chevro xr St./1600 T		9. EMud Ro	45 otany	_ ft. □Jetted	Date Complet	ted:  Z Bored	12/15/2	UUU
30 <b>46( A00</b>	u 500.	ZOOT I BIYIC	n 31/1000	40 (40(C))	Dug	·····y	∐Air Rota	TV.	<b>⊠</b> Bored □Driven		
City:	Columbia,	SC	Zip:		☐Cable 7	loc!	□Air Roza □Other	"J	<b>∴Un¥e</b> 71		
	Richland		mage.		10. CASING:			1			
		Longitude:	81º00 07		Diam.:		1a	Height: Above	MBolow		į
3. SYSTEM!		SYSTEM NU		<del></del>	Type:	<b>☑</b> PVC		1 -			
! WIET!	. <del></del>	-:V:CM NU			1 Thes.	©Steel	☐ Other	Weight			
4. CUTTING	SAMPLES.	☐ Yes	☑ No		1 ^	in. to _45		Drive Shoe?	☐ Yes		
		- 140	- TAU			in. to	feet depth			140	
Geophysic	zi Logs:	□ Yes	₩ No		11. SCREEN			<del></del>			
			*Thickness of	Depth to	Туре:	PVC		Diam.:	4" 20'		
For	mation Descri	iption	Stratum	DOMONI OF	Slot/Gauge	.020		Length:	20'		
<del></del>		<del></del>		Stratum	Set Betwee	w. <u>1</u>	ft. and 10	_ ft. ft.			
Red/t	brown claye	y sand	27'	27'	Sieve Anal		☐ Yes	_ (please endo	se)		No
				45'		VATER LEVEL				****	
I CHOW TO	gray Claye	sand (wet)	10"	45.	13. PIIMAINA	LEVEL Rolm	v Land Surface	π. Delow land	surgace after 24 l	nours	
<u> </u>				<u></u>			_ hrs. Pumping		G.P.M.		
					Pumping 1 Yield:	Test:		s (please enclo			No
		7/11			14. WATER O	WALITY	-	_			
			<b></b>	<u> </u>	Chemical A	Analysis close lab resull	]Yes ☑ No	Bacteriai A	Inalysi□ Yes	No.	
l <u> </u>		Ì	j i	1		COSE IND TESUS AL FILTER (filt)		✓ Yes	☐ No		
					Installed fr	rom	44	ft. to	45	ft.	
				<u> </u>	Effective s		7 02	Uniformity Co	refficient	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	
				ţ	16. WELL GR		✓ Yes and Cement 🗀	☐ No Concrete ☐	Other		Ì
·	· , · · · · · · · · · · · · · · · · · ·				Depth: Fr	om	10	ft. to	40		
· · · · · · · · · · · · · · · · · · ·						SOURCE OF	POSSIBLE CO	NTAMINATION	i: ft.		ction
				Ţ			ype well disinfect unpon compl	etion [7]	Type: o Amount:		_
<del></del>	<del></del>	<del></del>	<del> </del>		18. PUMP:	Date Installed	capon comp.	PARTIE NO.	Not installed	Z	
					Mfr. Name	x:		Model No.:			_
	<del></del>			1	H.P.	Volts_	Length of drop		ft. Capacity		gþm
<del> </del>				<del>                                     </del>		Submersible Jet (deep)	□Jet (sha □Recipro		☐Turbine		
	<u></u>				19. WELL DR	LLER:	Robyn Barkley		934		
					Address:	2485 Watson Elgin, SC 290	1				
	iter Bearing Z			1	1						
	nd sheet if ne	eded)			4	. Ale :	1000				
6. REMARKS	<b>7</b> :	<del></del>		. <del></del>	Telephone		(803)438-1331 ACTOR'S CERTI		nie weli was drilled	Imdex	
							us to the best of r			anuer my	
					10	la 1	3. 11.	Date:	12/27/2006	:	
					Signed:	zoej to presentativo	markey	_ 1-619.	- ICELIZUUC	·	-



#### **Bureau of Water**

4 10/20 2 200	A	4996	<del></del>		To 100000		A	,		
	MER INFORM				6. PERMIT N	JMBER:	877			
Name:		(last)	tal Group, in	C. (first)						
Address:	P. O. Box	427			7. USE:	,				
ł					Reside	ntial	☐ Public 8	<b>Eupply</b>	<b>☑</b> Process	3
City:	Elgin	State:	SC	Zlp:29045	☐ (rrigatio	on	☐ Air Cont	ditioning	□Emerge	ncy
•	-			•	☐ Test W		☐ Monitori	-	☐ Replace	ment
Telephone: \		40.55	Home:	<u></u>	8. WELL DEP	TH (completed		Date Started:		9/28/2006
	N OF WELL:					.=	_			
Name:	•		ud's Chevro			45	ft.	Date Complete		12/15/2006
Street Add	irees:	2367 Taylo	or St./1600 T	wo Notch	R.	otary	□Jetted		Bored	
<u> </u>	O-1	00			□Dug		☐Air Rota	ary	□Driven	
City:	Columbia,	2C	Zip:		☐ Cable		□Other	<del></del>	·	
1	Richland		n.40c= c=		10. CASING:	LI Threaded	Welded			
Latitude:		Longitude:			Diam.:		1"	Haight: Above		
2. SYSTEM	NAME:	SYSTEM NU	MBER:		Туре:	PVC		Surface		
	0.000 Per .	<del>–</del>	17.		-	☐ Steel	Other	Weight		[28]
A. CUTTING	SAMPLES:	☐ Yes	<b>☑</b> No		] ———	in to 45		Drive Shoe?	☐ Yes	☑ No
Coarteria	al I ama	PH 40	[7] A.		44 60	_in. to	feet depth	L		
Geophysic	aı Logs:	□ Yes		Depth to	11. SCREEN Type:	PVC		Dłam.:	<b>⊿</b> n	
Fox	nnation Descri	ption	Thickness of	Bottom of	Slot/Gauge			Length:	4" 20'	
<u></u>		·	Stratum	Strutum	Set Between		ft. and 10	n.		
Redil	brown claye	v eand	27'	27'	Sieve Anal		ft. and	î. Celesco escico	~1	T2 A!_
- L/OUN	JIOWII GIETO	y earlu	21		12 STATIC W	ysis VATER LEVEL	∐ Yes	(please enclos	e)	<b>☑</b> No
Yellow to	gray clayey	sand (wet)	18'	45'				ft. below land s	urgace after 24 i	hours
						LEVEL Below	Land Surface			
<b></b>			<b></b>		Pumping 1		hrs. Pumping	(please enclos	G.P.M.	prop Ala
Ī					Yield:		L 162	Ancora aurios	<del>o</del> ,	No.
					14. WATER C			<del></del>	<del></del>	
	····	····			Chemical		Yes 🛂 No	Bacterial Ar	nalysi□ Yes	No.
						close lab result		✓ Yes	□ No	<del></del>
		<del>· · · · · · · · · · · · · · · · · · · </del>			installed fi	rem	44	ft. to	45	ft.
	<del> </del>	·			Effective a	ize		Uniformity Cos	micient	
						OUTED?	✓ Yes	□ No	Other	
<del> </del>	·	<del></del>			Depth: Fr		nd Cement ☐ 10	ft. to	Other40	n.
					17. NEARES	SOURCE OF	POSSIBLE CO	NTARINATION:	ft	direction
					]	Ty	/pe well disinfect	ed Yes Ty	/pe:	
					48 DIMB:	Date installed	unpon comp	letion 🔽 No	Amount: Not installed	1.21
					Mir. Name		·	Model No.:	itui misiziisti	
					H.P	Volts	Length of drop	pipe	ft. Capacity	gpm
ļ						Submersible	☐Jet (she	•		
					19. WELL DR	Jet (deep)	Recipro		☐Centrifu 934	
						2486 Watson Eigin, SC 290		, ——— 4 H 147/11	<b>9</b> 04	•
	iter Bearing Zo					ENTRY COL COL				
S. REMARKS			<del></del>	<u> </u>	Telephone		(803)438-1331			
					20. WATER V	VELL CONTRA		FICATION: Thi	s well was drilled nd belief.	under my
					Claused 1	la 12	uklen	Date	12/27/2006	
	<del> </del>				Signed: #Life Author		mercy	_ Date:	12/21/2000	



## **Bureau of Water**

6,600,60	OIE MOIET	A MATERIAL SE'TH								
1. WELL ON	MER INFORM	MATION:			6. PERMIT N	UMBER:	877	,		
Name:			tal Group, In	C. (first)						
Address:	P. O. Box	• •		<b></b>	7. USE:		***************************************		<del>*************************************</del>	
					□Reside	ential	☐ Public S	vicaus	Process	<b>s</b> .
City:	Elgin	State:	SC	Zip:29045	☐ Irrigati		☐ Air Cond			
		-mus.			☐ Test V		☐ Monitori	•	Replace	•
Telephone: \			Home:			PTH (completed		Date Started:	<del></del>	9/28/2006
2 LOCATIO	N OF WELL:	AS-33			7	-				
Name:	Handy Par	ntry #65/Clo	ud's Chevro	n/Site		45	_ ft.	Date Complet	ed:	12/15/2006
Street Add	•		or St./1600 T				☐Jetted		Bored	
1		•	•	<del></del> -	□Dug	-	☐Air Rota	ry	Driven	
City:	Columbia,	SC	Zip:		☐ Cable	Tool	☐Other	-		
	Richland		•		10. CASING:	☐ Threaded	✓ Welded	1		
Lattude:	34°00.77	Longitude:	81°00.97		Diam.:		1"	Height: Above	s/Below	
3. SYSTEM		SYSTEM NU		······	Туре:	<b>☑</b> PVC	☐ Gaivanized	-		
	<del></del>	<del></del>			.,,,	☐ Steel	Other	Weight		
4. CUTTING	SAMPLES:	☐ Yes	☑ No		1 6	) in. to 45				- ☑ No
						in. to	feet depth		00	
Geophysic	al Logs:	☐ Yes	☑ No		11. SCREEN					
				Depth to	Type:	PVC		Diam.:	<b>4</b> "	
Fox	rmation Descri	iption	Thickness of Stratum	Bottom of	Slot/Gaug			Longth:	20'	
			Canadian.	Stratum	Set Betwe	en: <u>1</u>				· —
Red/	brown claye	v sand	27'	27'	Steve Ans	kesia	ft. and	_ft. 3 (please encic	ce)	₩ No
						NATER LEVEL	•			
Yellow to	gray clayey	sand (wet)	18'	45'	43 5711110101	ATT 50 FEB 550 FE	v Land Surface	ft. below land	surgace after 24	hours
[			[				v Land Surface hrs. Pumping		Q P M	
<del></del>					Pumpina	_ n. anter Test:	тиа. гинцину Т	(please enclo	Se)	☑ No
					Yield:					
]					14. WATER					
<u></u>	··. <del></del>					Analysis C nolose lab resul	]Yes ☑ No	Bacterial A	nalysi Yes	No₩
					18. ARTIFIC	AL FILTER (他	er pack)	✓ Yes	□ No	····
	<del></del>				Installed 1	irom	44	ft. to	45	fL.
<b></b>					Effective	size		Uniformity Co	efficient	
					18. WELL GI	ROUTED?	Yes	□ No	0#	
		****		<u> </u>	Depth: F		and Cement   10	Concrete   ft. to	Other	ft.
İ					17. NEARES	T SOURCE OF	POSSIBLE CO	TAMINATION		. direction
							unpon comp	letion 🗾 No	Amount:	
					18. PUMP:	Date Installed	ype well disinfect unpon comp :	140000000	Not installed	2
	· · · · · · · · · · · · · · · · · · ·		ļ		Mir. Nam H.P.	e; Volts	Length of drop	DATES OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY	ft. Capacity	Albana .
						Submersible	_ Lengin or alop     Jet (sha		_ n. Capacay ☐Turbine	gpm
						] Jet (deep)	□Recipro	cating	☐ Centrifu	
	·				19. WELL DI		Robyn Barkley	CERT. NO.:	934	
					Address:	2485 Watson Elgin, SC 29				
	ater Bearing Zo				7	-				
	and sheet if nee	eded)			<b>.</b>					
S. REMARK	<b>5:</b>				Telephon		(803)438-1331			
	-						ACTOR'S CERTI ue to the best of r		is well was drilled and belief.	under my
						/ /-	. 4			
					Signed: Wit	Com 130	hlen	Date:	12/27/2006	}
					Author	izod <del>Represenizit</del> vo		-		
					<del></del>			<del> </del>		



# Bureau of Water

. WELL OWNER INFORMATION:					6. PERMIT N	UMBER:	877				
Name:		nvironment (last)	al Group, Inc	C. (first)							
Address:	P. O. Box 4	27			7. USE:				<u> </u>	•	
					☐ Reside		☐ Public S		Process		
City:	Elgin	State:	SC .	Zip:29045	☐ Irrigatio		☐ Air Cont	•			
					☐ Test W		☐ Monitori		☐ Replace		-
Telephone: \			Home:		. WELL DEF	TH (completed	D)	Date Started:		9/28/20	JU6
	N OF WELL:		0. 61			48			_	404569	244
Name:			ud's Chevroi		- End - 1	45	_ ft.	Date Complete		12/15/20	סטע
Street Add	iress:	2367 laylo	r St/1600 T	WO NOTCH	9. Mud R	outry	□Jetteci □Air Rota		☑ Bored □Driven		
O*	Columbia,	ec			□Dug □Cable	Tool		ıy	PDIAGI		
City:	Richland	30	Zip:			☐ Threaded		<del>1</del>			
	34°00.77	Longitudes	21 ⁰ 00 07		Diam.:		1"	Height: Above	Reinu		
3. SYSTEM		SYSTEM NUI			Type:	<b>☑</b> PVC	☐ Gelvenized	Surface			
0.01012m		GIGIEM MOI	ROEIL		туре.	□ Steel	Other	Weight			
4. CUTTING	SAMPI ES:	☐ Yes	☑ No		1 6	in. to 45		Drive Shoe?		Z No	
7. 00: 1.00	Cross Laso.	- IV4	140			in. to	-				
Geophysic	eal Loos:	☐ Yes	☑ No		11. SCREEN						
			*Thickness of	Depth to	Туре:	PVC		Diem.:	4" 20'		
Fo	rmation Descrip	otton	Stratum	Bottom of	Slot/Gauge		A	Length:	20'		l
				Stratum	Set Betwe	еп:1	ft. and 10 ft. and	_ ft. ft.			
Red/	brown clayes	y sand	27	27'	Steve Ana	lysis	Yee	(please endos	<b>38</b> )	7	No
V-04-			401	API	12 STATIC V	VATER LEVEL	•				
Yellow to	gray clayey	sand (wet)	18'	45'	43 PINDING	I EVEL Rem	v Land Surface	T. below land	surgace after 24 i	rours	
						ft. after	hrs. Pumping		G.P.M.		3
	· · · · · · · · · · · · · · · · · · ·			<del> </del>	Pumping Yeld:	Test:		(please enclos	9 <b>9</b> )	$\square$	No
				<del></del>	14. WATER						
	<del></del>				Chemical	Analysis [ close lab resul	Yes 🗹 No	Bacterial A	nalysi□ Yes	No	
				-		AL FILTER (1)		✓ Yes	El No	<del></del>	
	·· ·		- · · · · · · · · · · · · · · · · ·	-	Installed 1	rom		ft. to	45	ft.	
<u> </u>					Effective			Uniformity Co	efficient		
					78. WELL G	Content C S	and Cement 🗆	☐ No Concrete ☐	Ofher		
					Depth: Fi	rom	10	fL to	40	ft.	
					17. NEARES	T SOURCE OF	POSSIBLE CO		n.	direc	ction
						Т	ype well disinfect	led□ Yes T letion ☑ No			
					18. PUMP:	Date Installed			Not installed	2	
	- 4. 14.				Mfr. Nam			Model No.:			_
					H.P.	Volts Submersible	_ Length of drop ☐Jet (sha		_ ft. Capacity ☐Turbine		gþm
<b></b>	<del> </del>					] Jet (deep)		. •			
					19. WELL DI	ULLER:	Robyn Barkle		934		
					Address:	2485 Watson Eigin, SC 29					
	ater Beering Zo				1						
	and sheet if nee	ded)				a Na s	(800)408 4004	İ			į
5. REMARK	<b>2:</b>				Telephon		(803)438-1331 ACTOR'S CERT		is well was drifted	under mv	-
l							ue to the best of				
						•		-			
I					1	1 1					
					Signed: 16	1 mm E	aplen	_ Date:	12/27/2006	<u> </u>	_
L			·		Author	izacj kapracentaliva		··			



**Bureau of Water** 

			<u> </u>												
1. WELL OW	WELL OWNER INFORMATION: Name: Palmetto Environmental Group, Inc.			<del></del>	6. PERMIT	T NUA	WBER:		877	ř					į
Name:	Palmetto I	Environmenta (lest)		(first)						<b></b>					
Address:	P. O. Box	• •		- -	7. USE:										
ļ					Res				] Public Si		_	Process			
City:	Elgin	State:	sc :	Zip:29045	□lmig	_		-	Air Cond	•		☐ Emerger	-		
					□Tes				] Monitorir			☐ Replace		·	
Telephone: \			Home:		18. WELL L	DEPT	'H (complete	1G)		Date Start	ted:		9/2	28/20	iU6
	N OF WELL:		عم مالي	WO4-	1	,-	z .	<b>#</b>		Date: 4	- قسليور		4014	EMA	500
Name:	•	ntry #65/Clor			9.	45		ft.	Lietted	Date Com		<b>Z</b> iBored	12/1	5/20	<u>.00</u>
Street Add	ii 6228;	2301 layk	or St./1600 T	MO MOTCH	9. LiMud		wai y	_	⊒Jetted ⊒Air Rota:	TV.		☑Driven ☑Borea			
Cities.	Columbia,	SC	Zip:		□ Cat	•	101		JAIT KOTAI JOther	<b>.</b>					
City:	Columbia, Richland	,	empt.				□ Threaded			T			•		
		Longitude:	81º00 07		Diam.:			18		Helpht: A	bove/Below				ŀ
3. SYSTEM I		SYSTEM NUI			Type:		<b>Z</b> PVC			1 -	DUTALDGION				
			. p. com spot Wd		, ,,,,,		☑ Steel			Weight _					
4. CUTTING	SAMPLES:	☐ Yes	✓ No		٦		in. to45			Drive Sho		Yes		No	,
		195	_				in. to		et depth	L					
Geophysic	zai Logs:	☐ Yes	☑ No		11. SCRE	EN									
			Thickness of	Depth to	Type:	F	PVC		_	Diam.:	4" 20'				
Fo:	rmation Descri	ption	Stratum	Bottom of Stratum	Stot/Ge Set Bet			) ft. and	1 40	Length: ft.	<u> 20'</u>	<del></del>		—	
	····				1			nt. and ft. and	d	ī.					
Red/	brown claye	y sand	27'	27'	Steve /	Analys	sis			(please e	nciose)			V/	No
		y sand (wet)	18'	45'	12. STAT	IC W	ATER LEVE	L		1 haku	land surgac	e affer 24 s	ioime	_	
· SHOW (O	Bray Maye	, with (MOI)	<del>  '''  </del>		13. PUNP		LEVEL Belo								
	-				<u> </u>	f	ft. after		Pumping		G.P.	.M.		-	
					Pumpi Yield:		est:		☐ Yes	s (please e	nctose)				No
				<del></del>	14, WATE	ER QU			***************************************			<del></del>			
	-		<u> </u>		Chemi	nicai A	Analysis (	☐ Yes	No No	Bacter	rial Anaiyoi[	] Yes	No	7	
				1	Please	e end	L FILTER (fi	Her neat	,	✓ Yes	<del>,                                    </del>	1 No			
			1	<del></del>			Z 1:17 (# (#		<b>7</b>	ft. to	45	-	ñ.		
			<u> </u>	<u></u>	Effecti	live siz	Z0		<del></del>	Uniformit	y Coefficien	ıt			-
				1			OUTED?	Sond O	Yes ment 🗆	☐ No Concrete	M U#	<del></del>			_
		· · · · · · · · · · · · · · · · · · ·	<del> </del>	<del>                                     </del>	Depth:	ı: Froi	m		10	) ft. to		40			-
	•			<b></b>	17. NEAR	EST.	SOUNCE O		IBLE CO	NTAMINAT				direc	tion
		_ <del></del>		1	I			LIDE		ted Yes	s Type: No Am	nient-			-
	<del></del>		<del> </del>	<del></del>	18. 91146	<b>5</b> ; 1	Date Installe	rd:	pen comp		No	t installed	[J]		
				<u></u>	Mfr. N	lame:	·			Model No	o.:				_
					H.P		Volts_		th of drop			apacity  Turbine		_ [	gpm
<del></del>			1	<del></del>	-  iype:		Subm <del>ersible</del> Jet (deep)	, l	□.let (sha □Recipro	catino		☐ Turbine			_
					19. WELL	L DRI	LER	Roby		y CERT. N		934			
					Addre		2485 Water Elgin, SC 2		·						
*Inclinate 141	ater Bearing Z	Zones (Use	<del> </del>	<del> </del>	4	į.	ա <b>ց</b> ու, <b>Ե</b> Մ 2	TÜ							
	later Bearing Zi 2nd sheet if ne			1	1										
S. REMARK			<del></del>	<del></del>	Telepi				)438-1331						
ļ.							ELL CONTI						ı under	my	
•					airection (	and th	his report is t	uus to th	e pest of	iny Knowie	age and be	a <b>∵</b> í.			
1						<i>J</i> . <i>I</i> .	1 1	10							
Ì					Signed:	WX.	3 /20	allen.	4	Date:	12	/27/2006	1		_
į							Representativ	10 T	<del>,</del>			VV\$			
							<u> </u>								



		1000	·		To	men man	077	<del>,                                      </del>		******	
	VNER INFORM		- 1 c		6. PERMIT NU	mbek:	877	₹			l
Name:		Environment (lest)		(first)							
Address:	P. O. Box	427			7. USE:						
•					□Resider	ntial	☐ Public 8	<b>Supply</b>	✓ Process		
City:	Elgin	State:	sc :	Zip:29045	□lmigatio	ท	☐ Air Cons		☐ Emerge	ncy	
-	<del>-</del>				☐ Test We	/eli	☐ Monitori	<del></del>	Replace		
Telephone:			Home:		8. WELL DEP	TH (completed	0	Date Started:		9/28	3/2006
	N OF WELL:		idle Character	n/04-	1 4	45		Data As1-1	vel-	19/4E	5/2006
Name:	•	ntry #65/Clo					_ ft.	Date Complete	ed:  Bored	1211	# EUUD
Street Add	M <b>4452:</b>	ZODI IBYK	or St./1600 T	WU NUCH	1	weer A	□ Air Rots	Why.	☑ Driven		
<b>A</b>	Calcumb	90	7in-		□Dug □Cable T	"ool	LIAIT Rota	<i>y</i>			
City:	Columbia, Richland	, <del>J</del> U	Zip:			Tool Threaded		<del></del>			
		1 amelia - t	94000 0-				1 ¹¹ Welded	Height: Above	Rolew		
		Longitude:			Diam.:						
3. System i	rame:	SYSTEM NU	mber:		Туре:	☑PVC		Surface			
				····	4 _	□ Steel	Other	Weight		[78]	
4. CUTTING	SAMPLES:	☐ Yes	☑ No					Drive Shoe?	☐ Yes	Z	do
<b></b>	1011		<b>1-36</b> · ·		44 22-	in. to	feet depth				******
Geophysk	cal Logs:	☐ Yes	Z No		11. SCREEN	PAR		Diam •	<b>A</b> n		
E-	amation Descri	ption	Thickness of	Depth to Bottom of	Type: Slot/Gauge	PVC ⇒: .020	<del></del>	Diam.: Length:	20'		<del></del>
			Stratum	Stratum	Set Between		ft. and 10	_ ft.	<del></del>		_
_	<b>.</b>				7	<del></del>	ft. and	n.			_
Red/	brown claye	y sand	27'	27'	Sleve Analy	ysis		s (please enclos	ie)		No
Yellow to	gray clayev	sand (wet)	18'	45'	1	VATER LEVEL		_ ft. below land a	eurgace after 24 l	tours	
				1			v Land Surface				
			<b></b>	<b></b>			_ hrs. Pumping	e (niegos grados	G.P.M.		
					Pumping T Yield:		☐ Ye	s (please enclos	xd)	1	No No
					14. WATER Q		]Yes [☑]No	Restarie! A-	naheil Vos	No.	
			<del>                                     </del>	<del></del>	Chemical / Please en	Analysis U	ja ∡ices MCIN(	DEUCENEI A	.:aiyot <u>li</u> 196	140	<b>l</b>
					15. ARTIFICU	AL FILTER (filt	ter pack)	✓ Yes	□ No		
		<del></del>		1	Installed fr	rom		ft. to	45	R.	
				ļ	Effective s	ize OUTED?		Uniformity Coe	emcient		
		ļ	1	1	IV. WELL, GR	Sment     So	Mand Cement ☐		Other	_	
			<b>†</b>		Depth: Fro	rom	10	O ft. to	40	ft.	
	\				17. NEARES	r source of	POSSIBLE CO	NTAMINATION:	: ft.	,	direction
				1		T	ype well disinfec	red Yes T	уре:		<del></del>
			<del>  </del>	<del></del>	18 011900-	Date Installed	mileon comp	oletion 🔽 No	Amount: Not installed	T.A.	
			<u> </u>	<u></u>	Mfr. Name	p:		Model No.:		لك	
					H.P	Volts	Length of drop	pipe	ft. Capacity		gpm
				<b></b>		Submersible	☐ Jet (she	•	☐Turbine		
			1		19. WELL DR	Jet (deep) HLLER:	☐Recipro Robyn Barkle	ocating by CERT. NO.:	☐Centrifu 934		
<del></del>	<del></del>		<del> </del>	<del></del>		2485 Watson	)	, -mitte MVii	#J*	•	
·			L \		4	Elgin, SC 290					
	ater Bearing Zo	•		1							
	2nd sheet if nee	eded)	<u></u> i	L	4 _	. A1- ·	(npm. +==	,			
5. REMARK	s:				Telephone		(803)438-1331		e unil una delle	1 mod	707
							ACTOR'S CERT ue to the best of		is well was drilled and belief.	. wwest i	··y
					_	0	<b>A</b> -				
					Signed:	Con D.	splen	Date:	12/27/2008	t_	
					Authori	izay Representative	- Jany	>===		<del></del>	·
				<del></del>		/					



1. WELL OWN	ER INFORM	ATION:	<del></del>		6. PERMIT NO	JMBER:	877	, ·	· · · · · · · · · · · · · · · · · · ·		
Name: F	Palmetto E	invironment (last)	al Group, in	C. (first)							
Address: F	P. O. Box 4	427		• • •	7. USE:			<del></del>			
					Reside	ntial	☐ Public S	upply	☑ Process	3	
City: E	Elgin	State:	SC	Zip:29045	☐Irrigatio	m	☐ Air Conc		☐ Emerge	ncy	
					☐ Test W		☐ Monitori	ng Well	☐ Replace		
Telephone: We	oric:		Home:		8. WELL DEP	TH (complete	d)	Date Started:		9/2	8/2006
2. LOCATION	OF WELL:	AS-37	÷		1						
Name: f	Handy Pan	itry #65/Clo	ud's Chevro	n/Site	l	45	_ ft.	Date Complete	xd:	12/1	5/2006
Street Addre	<b>165</b> :	2367 Taylo	or St./1600 T	wo Notch	9. Mud R	otary	□Jetted		<b>☑</b> Bored		
					□Dug		□Air Rota	ry	□Driven		
City: (	Columbia,	SC	Zip:		□Cable 1	Fool	□Other				
COUNTY: F					10. CASING:	☐Threeded	Welded				
Latitude: 3	34°00.77	Longitude:	81°00.97		Diam.:		1"	Height: Above/	Below		
3. SYSTEM NA	WE:	SYSTEM NU	MBER:		Туре:	<b>☑</b> PVC	☐ Galvanized	Surface			
					1 "	□ Steel	☐ Other	Weight	-	_	
4. CUTTING S	AMPLES:	☐ Yes	Z No		10	in. to45	feet depth	Drive Shoe?	☐ Yes		No
						in. to					
Geophysical	Logs:	☐ Yes	₩ No		11. SCREEN						
_			*Thickness of	Depth to	Туре:	PVC		Diam.:	4" 20'		
Form	ation Descrip	ption	Stratum	Bottom of	Slot/Gauge		A COMME TO A COMME	Length:	20'		
	<del></del>	<del></del>		Stratum	Set Betwee	en:1	ft. and 10 ft. and	ft.			
Red/br	own claye	y sand	27'	27'	Sieve Anal	vsle	TI Yes	_ ic. s (please endos	e)		No
					12. STATIC V	ATER LEVEL	-		<del></del>		
Yellow to g	ray clayey	sand (wet)	18'	45'	AN AUDINOVA	V - V	v Land Surface	ft. below land s	urgace after 24	hours	
							w Land Surfacehrs. Pumping		G.P.M.		į
					Pumping 1			(please encios			☑ No
					Yield:				-,		#E
					14. WATER C						
				***	Chemical .	Analysis L close lab resul	]Yes ☑ No	Bacterial Ar	uniysi⊡ Yes	No	1
				-	15. ARTIFICI	L FILTER (M	ter pack)	V Yes	□ No	<del> </del>	····
						rom	44	ft. to	45	ft.	
<b></b>					Effective s			Uniformity Coe	filcient		
:					16. WELL GR	CUIEU?	Yes and Cement	□ No	Other		
***************************************		••••••			Death: Fr	om	10	ft. to	40	ft.	
					17. NEARES	SOURCE OF	POSSIBLE CO	NTAMINATION:	ñ		direction
						1	ype well disinfect	ed∐ Yes Ty	/pe:		
<del></del>					18. PUMP:	Date Installed	unpon compl	etion 🗸 No	Amount: Not installed		
			İ		Mfr. Name	);		Model No.:	144 Historia		
					H.P	Volts	_ Length of drop	pipe	ft. Capacity		gpm
· · · · · · · · · · · · · · · · · · ·	<u> </u>					Submersible	☐Jet (sha		Turbine		
					18. WELL DR	Jet (deep)	☐Recipro Robyn Barkley		☐Centrifu 934		
	···					2485 Watson	y-: wainit)	,	ear-	•	
ļ	· · · · · · · · · · · · · · · · · · ·				1	Elgin, SC 29					
	i sheet if nee				]						
6. REMARKS:					Telephone		(803)438-1331				
· .							ACTOR'S CERTI ue to the best of r			under	my
					COLORGIA SING	nuo ichoite) (i	we to the basic of t	II NIMMARKE	IN CONT.		
Ì						1.	4				
					Signed:	long B	uhlen-	Date:	12/27/2006	<b>;</b>	
					Authori	zecjetoprocentalive					



rates	UIS TRUIDE!	TREESTE M	ľ								
1. WELL ON	MER INFORM	AATION:			6. PERMIT NU	MBER:	877				
Name:			bal Group, In	C. (first)			017				
Addrson:	P. O. Box			(may	7. USE:	<del></del>		<del></del>	·····		
AMUIDOS.		Tin I			Reside	ntial	☐ Public 8	enenke	Process		
	-lasta.	Otata							_		
City:	Elgin	State:	SC	Zip:29045	☐ Irrigatio		☐ Air Cond	•	□Emerge		
	144				☐ Test W		☐ Monitori	<del> </del>	☐ Replace		00000
Telephone:		40.00	Hame:		8. WELL DEP	TH (completed)	)	Date Started:		8/2	8/2006
	N OF WELL:						_				
Name:	-		ud's Chevro			5	_ft.	Date Complete		12/1	<u>5/2008</u>
Street Add	irees:	2367 Taylo	or St/1600 T	wo Notch	9. Mud Ro	otary	□Jetted		<b>✓</b> Bored		
l					Dug		☐Air Rota	ry			
City:	Columbia,	SC	Zip:		☐Cable 1	Tool	□Other				
COUNTY:	Richland				10. CASING:	☐ Threaded	Welded	1			
Latitude:	34°00.77	Longitude:	81°00.97		Diam.:		1"	Height: Above/	Below		
3. SYSTEM		SYSTEM NU		• • • •		<b>☑</b> PVC		Surface			
W OIGIES.		OTOTEM NO	MINISTER.		Type:	<del></del>					
	0.00000	F1	- T2 - 4		4 .	☐ Steel	Other	Weight		_	
4. CUTTING	SAMPLES:	☐ Yes	☑ No			in. to <u>45</u>		Drive Shoe?	☐ Yes	$\mathbf{Z}$	No
						in. to	feet depth	<u> </u>			
Geophysic	zai Logs:	☐ Yes	<b>☑</b> No		11. SCREEN						
		b	Thickness of	Depth to		PVC		Dlam.:	4"		
1-0	Formation Description  Red/brown clayey sand		Stratum	Bottom of	Slot/Geuge		A	Length:	20'	····	_
	Formation Description  Red/brown clayey sand			Stratum	Set perwes	en: <u>1</u>	ft. and 10	. ft.			
Red/	brown clave	w sand	27	27'	Sieve Analy			ੁ16. (please enclos	a)		☑ No
					12. STATIC W	ATER LEVEL		(picaso citas	Ÿ/		W 140
Yellow to	gray clayey	sand (wet)	18'	45'				ft. below land s	urgace after 24 i	ours	
İ							Land Surface				
							hra. Pumping		G.P.M.		
			;		Pumping T Yield:	95C	☐ Yes	(please enclos	e)		☑ No
	· · · · · · · · · · · · · · · · · · ·				14. WATER Q	DALITY			<del></del>		
							Yes 🔽 No	Bacterial An	naivsi⊟ Yes	No.	3
		•			Please end	dose lab result	8				2
					15. ARTIFICIA			✓ Yes	□ No		
					Installed for	om Ize	44	ft. to	45	ft.	
<b></b>	<del></del>	*********			Effective s	Z9		Uniformity Coe	fficient	·	
ł					76. WELL GR	OUTED?	✓ Yes ind Cement □	No No	74h		
<del></del>	***************				Depth: Fro			ft. to	40		
			ŀ		17. NEAREST	SOURCE OF	POSSIBLE CON	TAMINATION:	fi.		direction
		·		· · · · · · · · · · · · · · · · · · ·	1	Ty	pe well disinfect	ed[] Yes Ty	rpe:		
	··········						unpon compl	etion 🔽 No	Amount:		
					18. PUMP:	Date installed:	pe well disinfect unpon compl		Not installed	Z	
				· · · · · · · · · · · · · · · · · · ·		•					
			ŀ			VoltsSubmersible	Length of drop □Jet (she		ft. Capacity		gpm
<b></b>					—	Suomersible Jet (deep)	□Jet (enal		☐Turbine ☐Centrifu	rai	
}			ŀ		19. WELL DR		Robyn Barkley		934	1 <del>41</del>	
	·	····				2485 Watson					
					J	Elgin, SC 290	45				
	ster Bearing Zo				Ì						
	nd sheet if nee	eded)			j						
5. REMARK	B:				Telephone		(803)438-1331				
									well was drilled	under i	my
					direction and ti	his report is tru	e to the best of n	ny knowladge a	nd belief.		
					I	4					
					1 1	l M	. L./				
					Signed:	aga 12	deflery	Date:	12/27/2006		
					Authoriz	es Representative					



Later All	ONE MODIBLE I	1 M20), F W	<u> </u>								
1. WELL OW	NER INFORM	IATION:			S. PERMIT NU	MBER:	877	,			l
Name:			al Group, Inc	<b>*.</b>	[						
		(last)		(first)	<u> </u>						
Address:	P. O. Box	427	•		7. USE:						
		•			☐ Resider	rtial	☐ Public \$	upply	Process	,	
City:	Elgin	State:	sc :	Zip:29045	☐ Irrigation		☐ Air Cond		☐ Emerger		
ony.		walle.			☐ Test We		☐ Monitori	-	☐ Replace		
Tolonhama	Alaska		Lleren-		8. WELL DEP			Date Started:			8/2006
Telephone: \	Work: N OF WELL:		Home:		WELL VEP	(Antihigia)	-,	Guli (64.		<b>4</b>	
			Maria Maria	V64-	] .	<u>.</u>		Data Assessed	al•	1914	5/2006
Name:	-		ud's Chevror			5	ft.	Date Complete		12/1	UIZUUD
Street Add	iless:	236/ Taylo	or St/1600 To	wo Notch	9. Mud Ro	u <b>uy</b>	☐ Jetted		Bored		
	<u>.</u> .				Dug		□Air Rota	ry.	□ Driven		
City:	Columbia,	SC	Zip:		☐ Cable T		☐ Other				
	Richland				10. CASING:	☐ Threaded	Welded			-	
Latitude:	34°00.77	Longitude:	81°00.97		Diam.:		1"	Height: Above/	Below		
3. SYSTEM		SYSTEM NU				<b>☑</b> PVC	☐ Gaivanized	1			
	<del></del>				.,,,,,	□ Steel	☐ Other	Weight			
4. CUTTING	CAMOI DO-	☐ Yes	Z No		ه ۱			Drive Shoe?			No
a. Cui Ing	onmitues:	∟ı Tes	EZI 700		1		•	Dille GINE!	1 <del>00</del>	البكا	
			F78		44 935	in. to	feet depth	J			
Geophysic	al Loge:	☐ Yes	<u> </u>	Planette 4	11. SCREEN	DIA.		Diam :	4"		
<b></b> .	rmation Descri	ntion	*Thickness of	Depth to Bottom of	Type: Slot/Gauge	PVC .020		Diam.: Length:	20'		
F0	-manuri L/escil	รายปา	Stratum	Stratum	Set Between		ft. and 10	ft.			
	<del>-</del>		<del>                                     </del>	-u dubiti			ft. and	- n.			
Red/	brown claye	y sand	27'	27'	Sieve Analy	veis	☐ Yes	s (please endos	9)		No.
					12. STATIC W	ATER LEVEL	•				
Yellow to	gray clayey	sand (wet)	18'	45'	1,			. ft. below land s	surgace after 24 i	jours	
							v Land Surface		004		
			<u> </u>	·			_ hrs. Pumping				
· <del>-</del>			ı 7	1	Pumping 1 Yield:	CSE	☐ Yes	s (please enclos	<del>e)</del>		☑ No
<del></del>	<del></del>		<del> </del>	<u> </u>	14. WATER Q	UALITY					
		ł	1 1	I			JYes ☑ No	Bacterial Ar	nalyst∐ Yes	No	<b>y</b>
	<del></del>		<del>                                     </del>	<del></del>	Please en	close isb resul	its				_
<u></u>			l	\	16. ARTIFICIA	L FLTER (iii	ter peck)	✓ Yes	□ No		
	<del> </del>			1		om	44	ft. to	45	ft.	
			1		Effective s			Uniformity Coe	efficient		
I			[ ]	1	16. WELL GR		Yes	□ No	Other		
	<del> </del>		<del>                                     </del>		Depth: Fr		and Cement 🗆	Concrese 🔲 (	Otner40	P	
F		į	į l	!	17. NEARENT	SOURCE OF	POSSIBLE CO				direction
<del></del>			<del>  </del>	<del></del>	-1	70	Transport distribution	AND VON TO			
			<u> </u>	\	<u> </u>		unpon comp	ietion 🔽 No	Amount:		
					18. PUMP:	Date installed	unpon comp		Not installed	Z	
						"		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	- <u></u> -		[]	1	H.P.	Volts	_ Length of drop		ft. Capacity		gpm
	<del></del>		<del> </del>	<u> </u>		Submersible Jet (deep)			☐Turbine ☐Centrifu		l
ļ			]	1	19. WELL OR			v CERT. NO.:	L Certific 934		
<del></del>	<del></del>	····	<del> </del>			2485 Watson		,	# <del>**</del> *	-	
<u></u>			<u>                                     </u>	1		Eigin, SC 29	-				
Indicate W	ater Bearing Zo	ones (Use			7						
	and sheet if ne	•		1							١
5. REMARK		· · · · · · · · · · · · · · · · · · ·	<del></del>	<del></del>	Telephone		(603)438-1331				
-					20. WATER W	VELL CONTRA	ACTOR'S CERT	IFICATION: Thi	s well was drilled	under	my
							ue to the best of				Ì
					1	n		-			!
l					h	1 1	1.4				;
					Signed: 108	130 T30	uhlen	_ Date:	12/27/2008		
1						zo Representative					
<u></u>			<del></del>								



THUN	our moters	THURSTEAM	<u></u> _								
1. WELL ON	VNER INFORM	IATION:			6. PERMIT NU	IMBER:	877				
Name:			al Group, Inc	C.	ŀ						
		(last)		(first)							
Address:	P. O. Box	427			7. USE:						
}					☐ Resider	ntial	☐ Public S		Process		
City:	Elgin	State:	SC .	Zip:29045	□Irrigatio	n	☐ Air Cond	fitioning	☐ Emerge:	ncy	
	•		•	•	☐ Test We	ell	☐ Manitorii	-	☐ Replace	ment	
Telephone:	Work:		Home:		8. WELL DEP	TH (completed		Date Started:		9/2	8/2006
	N OF WELL:			<del></del>	1	- 1	•				
Name:			ud's Chevro	n/Site		15	ft.	Date Complete	ad:	12/1	5/2006
Street Add	_		or St./1600 T		9. DMud Ro		□Jetted	- de des series	✓ Bored		
Sucor Aut	a. 400.	zon iegh	, Jui 1000 I	17U(U)	□ Dug	J	□Air Rota	rv	□ Driven		
Ch	Columbia	80	7in.		☐Cable T	[aa]		<b></b> y			
City:	Columbia, Richland	JU	Zip:		10. CASING:			<del></del>			
i			n.40aa			□ imesced	Welded		651		
Latitude:		Longitude:			Diam.:		1=	Height: Above			
3. SYSTEM	NAME:	SYSTEM NU	MBER:		Туре:	<b>☑</b> PVC	☐ Gaivanized				
					J		☐ Other	Weight			
4. CUTTING	SAMPLES:	☐ Yes	Z No		<b>]</b> 0	in. to <u>45</u>	feet depth	Drive Shoe?	☐ Yes	Z	No
						in. to	feet depth	<u> </u>			
Geophysic	cal Logs:	☐ Yes	☑ No		11. SCREEN						
			Thickness of	Depth to	Type:	PVC		Diam.:	4"		
Fo	rmetion Descri	iption	Stratum	Bottom of	Slot/Gauge			Length:	20'		—
			- Caluii	Stratum	Set Betwee	an: <u>1</u>	ft. and10	_ft.			
Ded!	brown claye	w cond	27'	27	Sieve Analy	vele	ft. and	_ft. s (please enclos	ioi.		Ø No
New	DIOTHI Gays	y oanu		- 21	12 STATIC W			Throppo eringry	<del>~</del> /		DCT 140
Yellow to	gray clayev	sand (wet)	18'	45'				_ ft. below land a	surgace after 24 h	tours	
							v Land Surface	<del>''''</del>			<del></del>
<u></u>		<u> </u>					_hrs. Pumping		G.P.M.		
ļ					Pumping T	Test:	☐ Yea	(please enclos	<b>1e</b> )		₩ No
<u> </u>			<b></b>		Yield:	HALITY		· · · · · · · · · · · · · · · · · · ·			
ł			Į l		Chemical		Yes 🔽 No	Bacterial A	naivai⊡ Yes	No.	1
<b></b>	·····	· <del></del> -	<del> </del>	<del></del>		ciose isis resuii				-40/4	
l			<u> </u>		18. ARTIFICIA	IL FILTER (M	ter pack)	✓ Yes	□ No		·
	·····				installed fr	rom		ft. to	45	ft.	
					Effective s	ize		Uniformity Cos	efficient		
			1	ļ	16. WELL GR	CUTED7	∠ Yes and Cement  □	□ No	Other		
	<del></del>	<del></del>	<del></del>		Depth: Fre		and Cement 🔟	Concrete 📋 (	40	•	
				ļ	17 NEAREST	SOURCE OF	POSSIBLE CO	TAMINATION:	- <del>1</del> 0		direction
			<b> </b>		₹,	Т:	ima unii dininfaat	bedf'i Voe Ti	уре:		
L				<u> </u>			unpon comp	letion 🛂 No	Amount:		
		<del></del>			18. PUMP:	Date installed	unpon comp		Not installed	N	
<u> </u>			ļ		_j RM. PEND	J					
1			<u> </u>	ļ	H.P.	VoltsSubmersible	_ Length of drop ☐Jet (sha		ft. Capacity Turbine		gpm
<del> </del>	<del></del>	······	<del> </del>			Jet (deep)	Ujet (sna ∐Recipro		∐ Centrifu		
Į.				ļ	19. WELL DR		Robyn Barkley		934		
						2485 Watson		,	<b>30</b> 1	•	
<u> </u>		<u>,</u>			_	Elgin, SC 290					
	ater Bearing Zo 2nd sheet if ne	•									
S. REMARK	3:			<del></del>	Telephone		(803)438-1331				
1									is well was drilled	under	my
l					direction and t	this <b>report is tr</b> u	ue to the best of a	my knowledge a	and belief.		
						<b>A</b>					
					M	1 M	7 1.1				
					Signed: //	Myn B	rankley	_ Date:	12/27/2006		
I					Authori	zag Representative	1				



			<u> </u>		Ta					
*	NER INFORM				G. PERMIT NU	MBER:	877	•		
Name:	Palmetto E	Environment (last)	tal Group, Inc	C. (first)						
Address:	P. O. Box	• •			7. USE:					
ļ					□Resider	ntiai	☐ Public S	upply	Process	<b>5</b>
City:	Elgin	State:	SC :	Zip:29045	☐ Irrigatio	n	☐ Air Cond	-	☐ Emerge	•
•	_			,	☐ Test W		☐ Monitori	-	Replace	
Telephone: V			Home:	<del></del>	8. WELL DEP	TH (completed	)	Date Started:	,	9/28/2006
	N OF WELL:		rella Ma			16		Bet = = -	A	1014215555
Name:	•		ud's Chevroi			4 <u>5</u>	ft.	Date Comple		12/15/2006
Street Add	ress:	230/ laylo	or 50./1600 7	MO WOICH	9. LiMud Ro	owny	☐Jetted		<b>☑</b> Bored	
	O-11-	00			Dug	Paul .	☐Air Rota	u <b>y</b>	☐ Driven	
City:	Columbia,	<b>3</b> C	Zip:		☐Cable 1		☐Other	<del></del>	<del></del>	
	Richland		a48aa			Threaded				
		Longitude:			Dlam.:		1"	Height: Above		
3. SYSTEM P	NAME:	SYSTEM NU	MBER:		Type:	PVC	☐ Galvanized			
					4	□ Steel	Other	Weight		
4. CUTTING	SAMPLES:	☐ Yes	☑ No		0			Drive Shoe?	□ Yes	Mo No
		_				in. to	feet depth	<u> </u>		
Geophysic	al Logs:	☐ Yes		Danilla da	11. SCREEN	m./^		Dl	je 97	
F	mation Descri	ntlen	Thickness of	Depth to Bettom of	Type: Stot/Gauge	PVC .020		Diam.: Length:	<del>2</del> 0'	
""		-tones	Stratum	Stratum	Set Betwee		ft. and 10	ît.		
	<del></del>		<u> </u>		7	<del>*************************************</del>	ft. and	ft.		
Red/L	prown claye	y sand	27'	27'	Sieve Anal	veie	☐ Yes	(please enclo	196)	✓ No
Yellow to	gray clayev	sand (wet)	18'	45'	i .	VATER LEVEL		ft. below land	surgace after 24	hours
						LEVEL Below	Land Surface			
					<b></b>	, ft. after	_ hrs. Pumping			<u> </u>
			1	1	Pumping 1 Yield:	i est:	☐ Yes	s (piezse encid	<b>190</b> )	Ø No
<del> </del>	<del></del>		<del> </del>	<del> </del>	14. WATER C				<del></del>	
					Chemical A	Anelysis 🔲	] Yes 💟 No	Bacterial /	Analysi⊡ Yes	No.
	<del></del>				Please en	close lab result	8		Print 21	
<del> </del>	<del> </del>			<u> </u>		AL FILTER (tille		Yes ft to	□ No 45	R.
			1	•	Effective s	ize		Uniformity Co		
			T		18. WELL GR	OUTED?		☐ No		
				<u></u>	☐ Neat C	ement 🗆 Sa	and Cement []	Concrete 🔲	Other	
Į		İ	1	Ţ	Depth: Fr	OM	POSSIBLE CO	ft. to	40	) ft.
	· · · · · · · · · · · · · · · · · · ·		1	<del> </del>			ype well disinfect			anecion
				<u></u>	E .		IMBAD COMB	tetion N	lo Amount:	
	_ · · · · · · · · · · · · · · · · · · ·					Date Installed			Not installed	Z
				<u> </u>	Mfr. Name		Length of drop	Model No.:		
		ì	1	1	H.P.	Voits Submersible	Length of drop Let (sha		ft. Capacity ft. Capacity	gpm
			<del>                                     </del>	<del></del>		Jet (deep)	Recipro	cating	☐ Centrifu	
					19. WELL DR	LLER:	Robyn Barkley		934	
		<del></del>		ļ	Address:	2485 Watson Elgin, SC 290				•
Indicate Wa	iter Beering Zo	ones (Use			7	<del></del>				
	nd sheet if nee				]					
5. REMARKS	3:			<del></del>	Telephone		(803)438-1331			
									his well was drilled	l under my
]					direction and t	unis report is tru	ue to the best of i	my knowledge	and belief.	
						А				
					10	1 h	10	-	40.00	
					Signed: Author	tand Representative	y sey	_ Date:	12/27/2006	
<u> </u>					Aumen					



# **Bureau of Water**

					T					
	MER INFORM		_1.6		6. PERMIT NU	MBER:	877	i		1
Name:		(last)	ai Group, Ind	C. (first)						
Address:	P. O. Box	427			7. USE:					
					Resider		☐ Public 8		Process	
City:	Elgin	State:	SC	Zip:29045	☐ Irrigetion		☐ Air Cond		☐ Emerge	-
					☐ Test We		Monitori		Replace	
Telephone: V			Home:		8. WELL DEP	TM (completed	D)	Date Started:		9/28/2006
	N OF WELL:		ndla AL	n leu-		ig	<b>A</b>	Date Co. 1	malı	49/4 <i>E1</i> 5005
Name:	_		ud's Chevro or St./1600 T			15 teny	ft.	Date Complet	ed:  Bored	12/15/2006
Street Add		AND I MYIC	. UU 1000 l	TO ITUICII	■. Limito Ro	J	□Jenno □Air Rota	TV	<u>⊠</u> Driven	
City:	Columbia,	SC	Zip:		□Cable T	ool .	□Other	-,	THE LAST A	
	Richland	<del></del>			10. CASING:		Welded	T	<del></del>	
		Longitude:	81°00.97		Diam.:		40	Height: Above	√Below	
3. SYSTEM I		SYSTEM NUI		<del></del>		<b>☑</b> PVC		_		
						☐ Steel	Other	Weight		•
4. CUTTING	SAMPLES:	☐ Yes	✓ No	· · · · · · · · · · · · · · · · · · ·				Drive Shoe?		☑ No
						in. to	feet depth	<u></u>		
Geophysic	al Logs:	☐ Yes	☑ No	Autorian -	11. SCREEN					
F	rmation Descri	ntion	*Thickness of	Depth to Bottom of	Type: Sict/Gauge:	PVC 020		Diam.:	4" 20'	<del></del>
FGI	meusit LASCN	PORT I	Stratum	Stratum	Set Betwee	: .020 en: 1	ft. and 10	Length: ft.		
							ft. and	ī.		
Red/t	orown claye	y sand	27'	27'	Sieve Analy			(please enclo	se)	□ No
Yellow to	gray clayey	sand (wet)	18'	45'	12 STATIC W	AIEK LEVEL		ft. below land	surgace after 24 h	tours
		- (			13. PUMPING					
							_hrs. Pumping		G.P.M.	
	_	-			Pumping T Yield:	66E:	☐ Yes	(please enclo	9 <del>0</del> )	Z No
					14. WATER Q					** <del>*****</del>
			ļl		Chemical A	Analysis 🗆	Yes 🔽 No	Bacterial A	Inalysi∐ Yes	No.
		Í	1 Ì		Please end	close lab result L FILTER (little		/ Yes	□ No	
					Installed for	om	44	ft. to	45	n.
· · · · · · · · · · · · · · · · · · ·					Effective si	ize		Uniformity Co	efficient	
			ļ		16. WELL GR		✓ Yes and Cement 🗆	☐ No Concrete ☐	Other	
				<u> </u>	Depth: Fro	om	10	ft. to	40	
ļ					17. NEAREST		POSSIBLE CO			direction
					1		ype well disinfect unpon compl	ted∐ Yes T letion ☑ No	Amount:	
				<u> </u>	18. PUMP:	Date Installed			Not installed	Ø
<del></del>	·				Mfr. Name:	:		Model No.:		
			<b>!</b>			VoltsSubmersible	_ Length of drop ☐ Jet (she		_ ft. Capacity Turbine	gpm
					<u> </u>	Jet (deep)	□Recipro	cating	☐ Centrifu	gel
	· · · · · · · · · · · · · · · · · · ·		ļ		19. WELL DRI		Robyn Bandey	CERT. NO.:	934	
			Į <u> </u>			2485 Watson Elgin, SC 290				!
	ter Bearing Zo	• • • • • • • • • • • • • • • • • • • •			]	₩ 9 <b></b>				j
S. REMARKS			L	L	Telephone	No.:	(803)438-1331			!
	- <del>-</del> .				20. WATER W	FELL CONTRA	CTOR'S CERTI	FICATION: Th	is well was drilled	under my
							e to the best of r			-
					4	1 -				
					Pu	In M	arklen	Plater	408777	
					Signed:	Representative	rajiseo /	_ Date:	12/27/2006	· · · · · · · · · · · · · · · · · · ·
<u> </u>		<del></del>		<del></del>		9		<del></del>		



# **Bureau of Water**

1404	OIE INDIES!	MANAGA C'10	<u>L</u>							
1. WELL OW	NER INFORM	IATION:			S. PERMIT NU	MBER:	877	,		
Name:	Palmetto E	Environment (last)	tal Group, In	C. (firet)						
Address:	P. O. Box	427		<del>.</del>	7. USE:				<del></del>	***************************************
					□Reside	nti <del>el</del>	☐ Public 8	iuppiy	Process	•
City:	Eigin	State:	SC	Zip:29045	☐ Irrigatio	ก	☐Air Cont	ditioning ·	□Emerge	ency
					☐ Test W		☐Monitori	ng Weli	☐ Replace	ement
Telephone: 1		AC 42	Home:	<del></del>	8. WELL DEP	TH (completed	)	Date Started:		9/28/2006
	N OF WELL:		۔۔۔۔ کام دائدہ	ICM		ie.	e.			4544555
Name:	-		ud's Chevro		9. UMud Ro	15	_ft. □Jetted	Date Complet		12/15/2006
Street Add	1658.	230/ 18YIC	or St/1600 T	wo noich		DENTY			Bored	
City:	Columbia,	90	71		□Dug □Cable 1	[aal	☐Air Rota ☐Other	a <b>y</b>	□Driven	
	Richland	<del>50</del>	Zip:		10. CASING:		LIOmer Welded	<del></del>		
_	34°00.77	Langitudos	81 ⁰ 00 07		1	IIROSUEG	7 st Aveided	Height: Above	(Roley	
3. SYNTEM		SYSTEM NU			Diem.:	<b>☑</b> PVC	☐ Galvanized			
	erentes	CICIEM NU			Туре:	Steel	☐ Other		<del></del>	
4. CUTTING	SAMPI FR-	☐ Yes	☑ No		ه ا			Weight Drive Shoe?		
		<b>□</b> 163	ET 140			in. to <u>45</u>	feet depth	Duse Supe?	L 168	EZI NO
Geophysic	ad Logs:	☐ Yes	☑ No		11. SCREEN	# W	ieer nobili	<u> </u>		
	<u></u>			Depth to	Type:	PVC		Dlam.:	4"	
For	rmation Descri	ption	*Thickness of Stratum	Bottom of	Slot/Gauge			Length:	20'	***
		<del></del>		Stratum	Set Betwee	n:1	fi. and 10 fi. and	ft.		
Red/t	prown claye	y sand	27'	27'	Steve Analy	rsis	☐ Yes	_π. i (please enclos	se)	<b>⋈</b> No
	gray clayey			45'	12. STATIC W	ATER LEVEL				
1 OHOW ID	Biel Melek	Saura (Mer)	10	70	13. PUEPING	LEVEL Below	Land Surface	IL DEIOW IEMO	surgace after 24	IIUUIS
						ft. after	hrs. Pumping		G.P.M.	
					Pumping T	'est:	☐ Yes	(please enclos	se)	<b>☑</b> No
					14. WATER Q	UALITY				
		<del></del>		<del> </del>		Analysis 🔲 ciose iab result	Yes 🛛 No	Bacterial A	nalyst□ Yes	No
					18. ARTIFICIA			✓ Yes	□ No	
					installed fr	om		ft. to	45	ft.
		<del></del>			Effective s			Uniformity Co.	efficient	
					16. WELL GR	CUIEU/	Yes and Cement □	☐ No	Other	:
					Depth: Fre	ana	10	ft. to	40	n.
					17. NEAREST	SOURCE OF	POSSIBLE CO	NOTAMINATION	: ft.	direction
					· ——	Ty	pe well disinfect	ed Yes T	ype:	<del></del>
					18. PUMP:	Date Installed	pe well disinfect unpon compl	enou NI NO	Not installed	121
					T satur talentines	•		MANUSI MO		لــــ
						Volts	Length of drop		ft. Capacity	gpm
				·		Submereible Jet (deep)	□Jet (sha □Recipro		☐Turbine ☐Centrifu	
					19. WELL DR		Robyn Barkley		934	
						2486 Watson Elgin, SC 290	•		30.	!
a 2	ter Bearing Zo nd sheet if nee				]	•				
S. REMARKS	3:				Telephone		(803)438-1331			·
							CTOR'S CERTI ie to the best of r		is well was drilled and belief.	under my
					Signed: R	la Bo	ulley	Date:	12/27/2006	
<u> </u>	<del></del>	<del></del>	<del></del>		Authoriz	- Aceta englishme				



## **Bureau of Water**

PACADIR PROTECT PROSPER	1							
1. WELL OWNER INFORMATION:			6. PERMIT NU	MBER:	877			
Name: Palmetto Environment (last)	tal Group, in	C. (first)						
Address: P. O. Box 427		-	7. USE:					·*·
}			Residen	tial	☐ Public Si	upply	Process	
City: Eigin State:	SC	Zip:28045	☐ Irrigation		☐ Air Cond		☐ Emerge	
			☐ Test We		☐ Monitorir		☐ Replace	ement
Telephone: Work:	Home:		8. WELL DEPT	H (completed)	)	Date Started:		9/28/2006
2. LOCATION OF WELL: AS-44			1	_				
Name: Handy Pantry #65/Clo			4	<u> </u>		Date Complet		12/15/2006
Street Address: 2367 Taylo	or St./1600 T	wo Notch	L	ulry	☐ Jetted		Bored	
City: Columbia, SC	Tim-		□Dug	1	□Air Rotas	ту	☐ Driven	
City: Columbia, SC county: Richland	Zip:		Cable To		Other	<del></del>		
Latitude: 34°00.77 Longitude:	24 ⁰ 00 07		10. CASING:		_	Lipioles es	Maler-	
3. SYSTEM NAME: SYSTEM NU		<del></del>	Diem.:			Height: Above		!
organism reports 5757EM NU	wser:		1 "	☑PVC □Steel			<del></del>	
4. CUTTING SAMPLES: Yes	Z No				□ Other feet depth	Weight		- <b>2</b> No
				in. to 45		PHAR SUGEY		EL 140
Geophysical Logs:	Z No		11. SCREEN					
Formation Description	*Thickness of	Depth to Bottom of	Type: [	PVC		Diam.:	4" 20'	
romason Descriptor	Stratum	Stratum	Set Retuner	1: 4	ft. and	Length:	<u>4</u> V	<del></del>
			1		ft. and	TL.		
Red/brown clayey sand	27'	27'	Sieve Analys	sis	☐ Yes	(please endo	se)	☑ No
Yellow to gray clayey sand (wet)	18'	45'	12 STATIC WA			ft. below land	surgace after 24 h	tours
			13. PUMPING		Land Surface			
• • • • • • • • • • • • • • • • • • • •	<del> </del>	ļ	Pumples T	il siter	hrs. Pumping	(nloses carden	, G.P.M.	<b></b>
			l Yteid:			- friense ei 100		☑ No
			14. WATER QU	JALITY		_		
	<b> </b>		Chemical A	nalysis □ lose lab results	Yes 🛂 No	Bacterial A	vnalyst□ Yes	No.
			18. ARTIFICIAL	L'altre de l'alte	r pack)	✓ Yes	□ No	
			Installed fro	m m	44	ft. to	45	ft.
			Effective siz	70 11 T-22-2	44 Yes	Uniformity Co	efficient	
			IV. WELL GRO	PUIEUT ment     See	∠ Yes  nd Cement □	LI NO Concrete F	Other	ļ
			Depth: From	m	10	ff. to	40	ñ.
			17. NEAREST	SOURCE OF	POSSIBLE CON	ITAMINATION	i: 17.	direction
	Į Š			Ту	pe well disinfecte	edion [7] Ma	ype:	<del></del>
	<del>                                     </del>		18. PUMP:	Date Installed:	pe well disinfacte unpon comple	THE PLANT	Not installed	2
			1 1011111 1 10011110			III		
	]			Volts Submersible	Length of drop pure Length of drop pure Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Length of Lengt		fi. Capacity	gpm
	<del> </del>		<b>-</b>	sumersme let (deep)	□Jet (anal		☐Turbine	
			19. WELL DRIL	LLER:	Robyn Barkley		934	
				2485 Watson Elgin, SC 2904	45			
Indicate Water Bearing Zones (Use a 2nd sheet if needed)			]	<del>_</del> _				
5. REMARKS:		<del></del>	Telephone !		(803)438-1331			
			ZU. WATER Wi	ELL CONTRAI is report is true	CTOR'S CERTIF e to the best of m	FICATION: The street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the st	is well was drilled and belief.	under my
			Signed: Roll	gn Ba	blen	Date:	12/27/2006	
			Authorize	Representative				



1-course	ग्रह मिणाइटा ।	THUMPE A	L								
1. WELL OW	MER INFORM	ATION:			6. PERMIT NU	IMBER:	877				
Name:	Palmetto E		tal Group, Inc		}						
		(last)		(first)							
Address:	P. O. Box	427			7. USE:						
İ	_				□Resider		☐ Public 8		Process		
City:	Eigin	State:	SC	Zip:29045	□irrigatio		☐ Air Cond	•	☐ Emerger	•	
					☐ Test W		☐ Monitori		☐ Replace		0.000
Telephone:			Home:		8. WELL DEP	TH (completed	1)	Date Started:		9/2	8/2006
1	N OF WELL:			10414		1 <i>2</i>		<b>.</b>			*   A = = =
Name:	-		ud's Chevro		4	15	_π.	Date Complete		12/1	5/2006
Street Add	ress:	250/ Taylo	r 51./1600 T	wo Notch	9. Mud Ro	лыу	☐Jetted		Bored		
	A-1	66	<b></b> .		□Dug	*ant	☐Air Rote	g <b>y</b>			
City:	Columbia,	<b>3</b> U	Zip:		☐Cable T		Other	<del></del>			
ł	Richland		0.000		10. CASING:	LI Inreeded	Welded		m=1		
Latitude:		Longitude:			Diam.:		4"	Height: Above			
3. SYSTEM	NAME:	SYSTEM NUI	MBER:		Туре:	<b>☑</b> PVC	☐ Galvanized				
	0.0000			<del> </del>	4 .	□ Steel	Other	Weight		·	
4. CUTTING	SAMPLES:	☐ Yes	✓ No		0			Drive Shoe?	☐ Yes		No
l			F-5*		44.55=	in. to	feet depth	<u> </u>	1-17-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	<del></del>	
Geophysic	zai Logs:	☐ Yes	✓ No	Final- 1-	11. SCREEN	PVC		Diam ·	Δn		
For	rmation Descri	otion	Thickness of	Depth to Bottom of	Type: Slot/Gauge		<del></del>	Diam.: Length:	4" 20'		
L			Stratum	Stratum	Set Between		ft. and 10				
					1		fit. and	n.	_		_
Red/	brown claye	y sand	27'	27'	Sieve Analy		☐ Yes	(please enclos	se)		No.
Yellow to	gray clayey	sand (wat)	18'	45'		ATER LEVEL		ft. helms land	surgace after 24 h	<b>OUTS</b>	
							V Land Surface				
<b></b>					<b>!</b>	R. after	_ hrs. Pumping		G.P.M.		
Ì					Pumping T Yield:	est:	☐ Yes	(please enclos	50)		No No
<b></b>	<del></del>				14. WATER Q	UALITY			<del></del>		
			<u> </u>		Chamical /	Analysis 🔲	Yes 🛂 No	Bacterial A	naiysi□ Yes	No.Z	1
1						close lab result L FILTER (filt)					
<b>]</b>	<del></del>	<del></del>	<del> </del>			al filter (nii om		Yes ft. to	□ No 45	ñ.	
<u> </u>					Effective s	ize		Uniformity Con			
					16. WELL GR	OUTED?	✓ Yes				
				<u> </u>	Neat C	ement 🔲 St	and Cement 🔲	Concrete 🗆	Other40	•	
1			[		17. NEAREST	SOURCE OF	POSSIBLE CON	NTAMINATION	: ft.	TL.	direction
		<del>* * * * * * * * * * * * * * * * * * * </del>			1	T ₃	ype well disinfect	ted Yes T	ype:		
					4			letion 🗸 No			
			[ ]		18. PUMP: Mfr. Name	Date installed :	·	Model No.:	Not installed		Ì
	<del></del>			<del> </del>	H.P.	Volts	Length of drop		ft. Capacity		gpm
			<u></u>		Type:	Submersible	☐Jet (sha	Bow)	Turbine		
		_			19. WELL DR	Jet (deep)	☐Reciprod Rabyn Bankley		☐Centrifu 934		
<del></del>	<del></del>		<del> </del>			SLLER: 2485 Watson		veri. Ru.:	934		
	<u></u>	<b></b>				Elgin, SC 290					
	ater Bearing Zo and sheet if nee										
5. REMARK	<b>2</b> :		-	<del> </del>	Telephone		(803)438-1331				
									is well was drilled	under i	my
				,	unection and t	<b>ni ai moqe</b> n anu	ue to the best of r	iny Knowledge £	uto delici.		i
						Л					•
					Signed: R	1/m 12	arh lon-	Date:	12/27/2006		
					Authoria	entainmental ber	- The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the				<del></del>
					·						



1000	DIE LUDIECT	PROPERTY.	ľ								
1. WELL ON	WER INFORM	MATION:			6. PERMIT NU	JMBER:	877	'			
Name:		Environment (last)	tai Group, In	C. (first)							
Address-	P. O. Box	• •		(44)	7. USE:		<del></del>	<del></del>	· · · · · · · · · · · · · · · · · · ·		
, , , , , , , , , , , , , , , , , , , ,					Reside	ntiel	☐ Public S	a monte	☑ Process		
<b></b>		Obstan	00	7	Dinigatio		☐ Air Cont		☐ Emerge		
City:	Elgin	State:	SC	Zip:29045	7						
Telephone:	Work:		Home:		Test W	ell TH (completed	☐ Monitori	Date Started:	☐ Replace		28/2006
	N OF WELL:				1		•				
Name:		ntry #65/Clo	ud's Chevm	n/Site	1 2	15	_ft.	Date Complete	ei•	12/1	15/2006
Street Add	-				9. Mud Ro		UJetted	Dead Complete	<b>✓</b> Bored		
Cuber And	11000.	2007 Taylo	A OLI 1000 1	WO HOWN	Dug	Mail y	□Air Rota		Driven		
	0-11-				_			ry	LIDUAGU		
City:	Columbia,	, SC	<b>Zip:</b>		□Cable 1						
COUNTY:	Richland				10. CASING:	☐ Threaded	<b>✓</b> Welded	1			
Latitude:	34°00.77	Longitude:	81°00.97		Diam.:		1"	Height: Above/	Below		
3. SYSTEM	NAME:	SYSTEM NU	MBER:		Type:	<b>☑</b> PVC	☐ Galvanized	Surface			
			<del>-</del>		",,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	□ Steel	Other	Weight			
4 CITTING	SAMPLES:	☐ Yes	✓ No	·····	1 <u> </u>						No
- COLING	Orani Ligi.	L 100	OF LINE		<del></del>		*	Dilve Scioer	LI 106		NU
l		-	Par			in. to	feet depth	<u></u>			
Geophysic	zai Loge:	☐ Yes	₩ No		11. SCREEN			<b>5</b> 1	4D		
	rmation Descri	into-	Thickness of	Depth to Bottom of	Type: Slot/Gauge	PVC .020	<del> </del>	Diam.: Langth:	4" 20'		
. ~	IIIMMI Desci	rhman	Stratum	Stratum		: <u>.020</u> :n: 1	ft. and10_	ft.	20		
	· · · · · · · · · · · · · · · · · · ·	<del></del>	<del> </del>	Sustanti	Get permen	at	ft. and	- it.			
Red/	brown claye	ev sand	27'	27	Sleve Anal	wals		(please endos	e)		No.
					12. STATIC W	ATER LEVEL				<del></del>	
Yellow to	gray clayey	sand (wet)	18'	45'				. R. below land a	urgace after 24 l	tours	
							Land Surface		0.044		
<b></b>						TLEMET	hrs. Pumping	(please endos	G.P.M.		- N-
					Yield:	Test:	[] Tes	(bianae eucioa	9)		☑ No
					14. WATER C	IIAI RV		***************************************	<del></del> -		<del></del>
ł			1			Analysis 🗀	Yes [7] No	Bacterial An	aivai⊟ Yes	No	7
	<del></del>					close lab result			,		_
1					18. ARTIFICI/	L FLTER (TIL	er peck)	V Yes	□ No		****
					Installed fr	om	44	ft. to	45	ft.	
					Effective s	ize		Uniformity Coe	fficient		
					16. WELL GR	OUTED?	Yes	□ No			
							and Cement 🔲		<b>Other</b>		
ļ					Depth: Fn	om		ft. to	40		
		<del></del>					POSSIBLE CO			_	direction
			<b>!</b>		I —	'	ype well disinfect	betien [7] No.	Amosput-		
<del> </del>	······		<b>-</b>		18 PINE.	Date Installed	ype well disinfect unpon compl :	EUCH: PE NO	Not installed		<del></del>
1					Mfr. Name	ran nemeri		Model No.:	name to bringing of the		
					H.P.	Volts	Length of drop		ft. Capacity		gpm
						Submersible	☐Jet (sha		□Turbine		
	<del></del>					Jet (deep)	□Recipro	cating	☐ Centrifu		
					19. WELL DR		Robyn Berkley	CERT. NO.:	934		
İ					Address:	2485 Watson					
*1			<b> </b>		4	Elgin, SC 290	<b>75</b> 0				
	ater Bearing Z		]								
	and sheet if ne	BG <b>B</b> G)	<u> </u>	L	4						
5. REMARK	<b>3</b> :				Telephone		(803)438-1331				
ł							CTOR'S CERTI			under	my
}					direction and t	ms report is tru	e to the best of r	my knowledge at	no Densi.		
						_					
					h	1 1	11				
Į					Signed: ALA	lyn 1	Jukley	_ Date:	12/27/2006		
					Authori	zegyfteproeentative		_			



1100.7	<u> </u>				<del></del>						
1. WELL OW	MER INFORM	_			6. PERMIT NU	MBER:	877				Į
Name:	Palmetto E	Environment (lest)		C. (first)							
Address:	P. O. Box	427			7. USE:						- 1
ŀ					Resider	ntial	☐ Public 8		Process		
City:	Elgin	State:	SC	Zip:29045	☐ Irrigatio	n	☐ Air Cond	•	☐ Emerge	•	ı
					☐ Test W		Monitori	ng Weli	Replace		
Telephone:			Home:		8. WELL DEP	TH (completed	)	Date Started:		9/28/20	006
2. LOCATIO	N OF WELL:				1						
Name:	Handy Par	ntry #65/Clo	ud's Chevro	n/Site		15	. ft.	Date Complete	d:	12/15/20	008
Street Add	ireas:	2367 Taylo	or St./1600 T	wo Notch	9. Mud Ro	otary	□Jetted		Bored	•	
					□Dug		□Air Rota	ry .	□ Driven		
City:	Columbia,	SC	Zip:		□Cable 1		Officer	<del></del>			
	Richland		•		10. CASING:	☐ Threaded					i
Latitude:	34°00.77	Longitude:			Diam.:		1"	Height: Above			i
3. SYSTEM	NAME:	SYSTEM NU	MBER:		Туре:	<b>☑</b> PVC		Surface			
						□ Steel	☐ Other	Weight			
4. CUTTING	SAMPLES:	☐ Yes	✓ No				feet depth	Drive Shoe?	☐ Yes	☑ No	
			_			in. to	feet depth	<u> </u>			
Geophysi	cal Logs:	☐ Yes	✓ No		11. SCREEN			<b>5</b>	411		
	mation Descri	indian.	Thickness of	Depth to Bottom of	Type: Slot/Gauge	PVC .020		Diam.: Length:	<u>4"</u> 20'		
1 "		ipaon	Stratum	Stratum	Set Between	en: 1	ft. and 10				
	<del></del>					\ <u></u>	ft. and	_n.			
Red/	brown claye	y sand	27'	27	Steve Anat	ysis		s (please enclos	e)		No
Vallow to	arev cleves	sand (wet)	18'	45'	12. STATIC W	ATER LEVEL	•	O holes land o	surgace after 24	hours	
1 CHOW TO	gray daye	dana (wel)		70	13. PUMPING	LEVEL Below	Land Surface	L CONTRACTOR	July Division Livi	10010	
<u> </u>							_hrs. Pumping		G.P.M.		
					Pumping 1	<b>Fest:</b>	☐ Yes	s (please endos	<b>(e)</b>	$\mathbf{Z}$	No
<u> </u>					Yield:	HALITY					_
ł			i i		Chemical	Analyeis [	Yes 🔽 No	Bacterial A	nalysi Yes	No.	
					Please en	close lab recul	ls		-		
					18. ARTIFICI		er pack)	Yes Yes	□ No 45	ft.	ĺ
İ			İ		Effective s	rom	44	ft. to Uniformity Coe		щ.	
	·		ļ		18. WELL GR	OUTED?	✓ Yes	□ No		*******	
			L		Neat C	ement 🔲 S	and Cement 🔲	Concrete	Other		
					Depth: Fr	om	1( POSSIBLE CO	ft. to	40	ft.	ction
<u> </u>				<del> </del>						æ	اللس
1				<u> </u>	1	·	unpon comp	letion 🔽 No	Amount:		
		<del>, , † 1</del>			18. PUMP:	Date installed	E	Mandal State	Not installed	M	
<u> </u>		<del></del>	<u> </u>	ļ <u> </u>	Mir. Name H.P.	volta	Length of drop	_ MAGGET ING	ft. Capacity		gpm
1						Submersible	uden in Bress				Öf.,,,
					7 0	Jet (deep)	□Recipro	cating	☐ Centrifi		
<b></b>			<u> </u>	ļ	19. WELL DR	ILLER: 2485 Watson		y CERT. NO.:	934		
			i		Audress:	Elgin, SC 29					
Indicate W	ater Bearing Z	ones (Use	T	<b>†</b>	1		<del>-</del>				
	2nd sheet If ne		1		1						
S. REMARK	S:				Telephone		(803)436-1331				
1									is well was drilled	under my	
					anecion sua	ताक स्कित्स क्र	ue to the best of	my montange s	uu vari.		
						a					
					Signed: <b>1</b>	la B	abon-	Date:	12/27/2006	3	
1						izg Representative			Low me L. Line St. No.		
<u> </u>						<i>y</i> .					



Name: Palmetto Environmental Group, Inc. (isst) (Birst)  Address: P. O. Box 427  City: Eigh State: SC Zip:29045  City: Eigh State: SC Zip:29045  Name: Handy Paritry #65/Cloud's Chevron/Site Street Address: 2387 Taylor St./1600 Two Notch  City: Columbia, SC Zip: COUNTY: Richland Latitude: 34°00.77 Longitude: 81°00.97  3. SYSTEM MAME: SYSTEM NUMBER:  Quality Street Address: Quality Well: Street Address: Quality Street Address: Quality Street Address: Quality Street Address: Quality Street Address: Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Quality Q	1 10000 0 0000	Office transfer	(ATROLL	· · · · · · · · · · · · · · · · · · ·		O DECRETARY	were.	877	<del>,</del>			
Address: P. O. Box 427  City: Eigh State: SC Zip-28045  City: Eigh State: SC Zip-28045  City: Countries Work: Home:  2. LOCATION OF West_: AS-48  Name: Handy Parity #85/Cloud*s Chevron/Site Street Address: 2987 Taylor St./1600 Two Notch  City: Columbia, SC Zip: COUNTY: Richland Lethack: 34°00.77 Longitude: 81°00.97  3. SYSTEM NAME: SYSTEM NUMBER:  Geophysical Logs:   Yes   No    Geophysical Logs:   Yes   No    Red/brown clayey sand (web)   18'    Yellow to gray clayey sand (web)   18'    Yellow to gray clayey sand (web)   18'    Yellow to gray clayey sand (web)   18'    Type:   Street   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type:   No    Type			Environment		C.	a Levent M	ناکنالانه ا	GII			_	_
Chy:   Egin   State:   SC   Zip-28045	Add areas	D U Bar		· ·		7. USE:						
City: Eigin State: SC Zip-25046  Telephone: Work: Home: State Work: Home: State Work: Home: State Work: State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State Stat	<b>MODITESS</b> :	F. V. BOX	- <b>16</b> 1		i		ripi		vioniv	Pinces		
Trest Well	·	_1_1_	Ctat-	ec ·	70-20					_		
Telephone: Work:   Home:   2, LOCATION OF WELL: AS-46   Mane: Handy Parity #85/Cloud's Chevron/Site Street Address: 2387 Taylor St./1600 Two Notch     45 ft.   Date Completed: 12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1   12/1	City:	=igm	300B:	، ناد	<b>др:29045</b>				•	•	•	
2 LOCATION OF Well: AS-48 Name: Handy Parnty \$65/Cloud's Chevron/Site Name: Handy Parnty \$65/Cloud's Chevron/Site Street Address: 2367 Taylor St./1600 Two Notich City: Columbia, SC Zip: COUNTY: Richland Latitude: 34'00.77 Longitude: 61'00.97 3. SYSTEM NUMBER: Geophysical Loge:   Yes   Z  No				Home:							9/28/2	2006
Name: Handy Pantry #85/Cloud's Chevron/Site Street Address: 2367 Taylor St./1600 Two Notch Street Address: 2367 Taylor St./1600 Two Notch City. Columbia, SC Zip: County: Richland Listhate: 34°00.97 Longitude: 81°00.97  3. SYSTEM NAME: SYSTEM NUMBER: Type: Zi No Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cashing: The Cas						1	Ş 15-5					
Street Address: 2367 Taylor St./1600 Two Notch City: Columbia, SC Zip: COUNTY: Richland Lettude: 34°00.77 Longitude: 81°00.97  3. SYSTEM NAME: SYSTEM NUMBER:  4. CUTTING SAMPLES:   Yes Zi No  Geophysical Loga:   Yes Zi No  Fermation Description Thickness of Stratum  Red/Brown clayery sand 277  Yellow to gray clayery sand (wet) 18'  45'  Yellow to gray clayery sand (wet) 18'  45'  14. WATER CLALITY Chemical Analysis   Yes Zi No  12. FUBFING LEVEL Below Land Surface  13. FUBFING LEVEL Below Land Surface 14. WATER CLALITY Chemical Analysis   Yes Zi No  14. WATER CLALITY Chemical Analysis   Yes Zi No  15. ARTHER CRIAITY Chemical Analysis   Yes Zi No  16. ARTHER CRIAITY Chemical Analysis   Yes Zi No  17. NEAREST SOURCE OF POSSIBLE CONTROL OF Type:  18. FUBFING LEVEL GROUTED?   Yes I No  19. Next Ceremant   Sand Commant   Oncrete   Other  19. Next Ceremant   Sand Commant   Oncrete   Other  19. Next Ceremant   Sand Commant   Oncrete   Other  19. Next Ceremant   Sund Commant   Oncrete   Other  19. Next Ceremant   Sand Commant   Oncrete   Other  19. Next Ceremant   Sund Commant   Oncrete   Other  19. Next Ceremant   Sund Commant   Oncrete   Other  19. Next Ceremant   Sund Commant   Oncrete   Other  19. Next Ceremant   Sund Commant   Oncrete   Other  19. Next Ceremant   Sund Commant   Oncrete   Other  19. Next Ceremant   Sund Commant   Oncrete   Other  19. Next Ceremant   Sund Commant   Oncrete   Other  19. Next Ceremant   Sund Commant   Oncrete   Other  19. Next Ceremant   Sund Commant   Oncrete   Other  19. Next Ceremant   Sund Commant   Oncrete   Other  19. Next Ceremant   Sund Commant   Oncrete   Other  19. Next Ceremant   Sund Commant   Oncrete   Other  19. Next Ceremant   Sund Commant   Oncrete   Other  19. Next Ceremant   Sund Commant   Oncrete   Other  19. Next Ceremant   Sund Commant   Oncrete   Other  19. Next Ceremant   Oncrete   Other  19. Next Ceremant   Oncrete   Other  19. Next Ceremant   Oncrete   Other  19. Next Ceremant   Oncrete   Other  19. Next Ceremant   Oncrete   Other  19. Next Ceremant   Oncrete			ntry #65/Clo	ud's Chevro	n/Site			_ft_	Date Complete		12/15/2	<u> 2006</u>
City: Columbia, SC   Zip:   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   Cable Tool   C		•	2367 Tavin	T St/1600 T	wo Notch					<b>✓</b> Bored		
City: Columbia, SC zip: COUNTY: Richland Latitude: 34°00.77 Longitude: 81°00.97  3. SYSTEM MAME: SYSTEM NUSSBER:  Geophysical Logs:		. <del></del>		,				☐Air Rota	ıy			
COUNTY: Richland Lettude: 34°00.77 Longitude: 81°00.97  3. SYSTEM NAME: SYSTEM NUMBER:  CUTTING SAMPLES:   Yes   Z  No	City:	Columbia	SC	Zip:		_	Tool					-
Listifurdie: 34°00.77   Longitudie: 81°00.97   Diam.:   1"   Height: Above/Solow   Surface   Surface   Weight   Dive Shoe?   Yes   Z  No   Longitudie: 34°00.77   Longitudie: 34°00.97   Thickness of Stratum   Type: PVC   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth: 20' Stor/Gauge: 020   Diam.: 4"   Longth			. =	-								
Type:			Lanakuto	81°00 97					Height: Above	Below		
Steel   Offher   Weight   Drive Shor?   Yes   Drive Shor?   Yes   Drive Shor?   Yes   Drive Shor?   Yes   Drive Shor?   Yes   Drive Shor?   Yes   Drive Shor?   Yes   Drive Shor?   Yes   Drive Shor?   Yes   Drive Shor?   Yes   Drive Shor?   Yes   Drive Shor?   Yes   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?   Drive Shor?						<b></b> [	<b>V</b> IPVC	<del></del>	1			
A CUTTING SAMPLES:	v. 91012M	PROPERTY.	THE RU	<del>نا لنانب.</del>		· 7/PC.						
In. to   feet depth	V Columnia	RAGIDI	Ti wa			1 ^						
Scentificated   Section of Stratum   Street   Stratum   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street   Street	THE TUNG	, welltij:	Li Yes	. ISLI NO		1 —			GRING!	100		
Thickness of Stratum   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort aug.   Stort		will acco		[72] A		14 000	ar W	ान्द्रा क्योग	4	<del></del>		·
Stratum Stratum Stratum Stratum Stratum Stratum Stratum Stratum Stratum Stratum Stratum Stratum Stratum Stratum Stratum Stratum Stratum I ft. and 10 ft.    Red/brown clayey sand   27   27   Stove Analysis   Yes (please enclose)	Geophysic	1.088;	L1 Y66	T	N4-4-		PVC		Diam.:	4"		_
Stratum Stratum Stratum Stratum Stratum Stratum Stratum Stratum Stratum Stratum Stratum Stratum Stratum Stratum Stratum Stratum Stratum I ft. and 10 ft.    Red/brown clayey sand   27   27   Stove Analysis   Yes (please enclose)	Fee	rmation Descri	ption		Bottom of	Stot/Gauge	.020		Length:	20'		-
Red/brown clayey sand 27 27 Sieve Analysis				Stratum				ft. and 10	_n			
Yellow to gray clayey sand (wet)  18'  45'  12. FUNIFING LEVEL Below Land Surface fit. after free. Pumping G.P.M. Pumping Test: Yes (please enclose) Yield:  14. WATER QUALITY Chemical Analysis Yes No. Please enclose tab results  18. ARTIFICIAL FILTER (fiber pack) Yes No. Please enclose tab results  18. ARTIFICIAL FILTER (fiber pack) Yes No. Installed from 44 ft. to 45 ft. Effective stas Unitionally Coefficient  14. WELL GROUTED? Yes No. Poster Cement Sand Cement Concrets Coefficient  19. Next Cement Sand Cement Concrets No. Type well disinfected Yes Type: unpon completion No. Amount: Not installed Mr. Name: Not installed Mr. Name: Not installed Mr. Name: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: United No.: Not installed Yes Type: No.: Not installed Yes	_ =	<u> </u>				7				-1	-	} •·
Yellow to gray clayey sand (west) 18* 45* ft. below land eurgace after 24 hours  12. FUNIPING LEVEL Below Land Surface  ft. after _ hrs. Pumping G.P.M.  Pumping Test: _ Yes (please enclose)  Yes (please enclose)  14. WATER QUALITY  Chemical Analysis _ Yes _ No _ Bacterial Analysis _ Yes _ No  Please enclose tab sesufts  18. ARTHFCIAL FILTER (fiber pack)	Red/	DIOWN Claye	y sand	27	27				upease encice	<del>-</del>		N
12. FUNIFING LEVEL Better Land Surface   ft. after   hrs. Pumping   G.P.M.	Yellow to	GISV clave.	sand funt	18"	4F				ft, being land a	Nurgace after 24 h	FOURS.	
ft. after		a1 ~e1g)	/net)	1	<del></del>							
Pumping Test:	<u> </u>						fi. after	_ tus. Pumping				•
Yield:   14. WATER QUALITY   14. WATER QUALITY   15. WATER QUALITY   15. WATER QUALITY   15. WATER QUALITY   15. WATER QUALITY   15. MARKET SOURCE OF POSSIBLE CONTAMINATION:   16. WATER STOURCE OF POSSIBLE CONTAMINATION:   16. WATER QUALITY   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINATION:   16. WATER CONTAMINA					·	Pumping 1	Test:			<i>2</i> 6)	Z	7 N
Chemical Analysis	<b>!</b>				<u> </u>	Yield:						
Please enclose tab results  18. ARTIFICIAL FILTER (filter pack)    18. ARTIFICIAL FILTER (filter pack)   Yes	Ţ	<del>_</del>			1			] Yes [7] M-	Barterioi A-	neiveli Vec	No	
18. ARTIFICIAL FILTER (filter pack)	<del></del>			<del></del>	<del></del>	Please en	iclose lab result					_
tristalled from 44 ft. to 45 ft.  Effective size Uniformity Coefficient  16. WELL GROUTED? Yes   No	<u></u>					18. ARTIFICI	AL FILTER (OR	ter peck)				
16. WELL GROUTED?						Installed fr	rom		ft. to		TL.	
Neat Cerment   Sand Cerment   Concrete   Other	<b></b>		<del></del>		<del></del>			Y V2-		enuzerii		
Depth: From 10 ft. to 40 ft.  17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft.  Type well districted  Yes Type:  unpon completion  No Amount:  18. PUMP: Date Installed: Not installed  Mr. Name:  Mir. Name:  Model No.:  H.P. Volts Length of drop pipe ft. Capacity  Type:  Submersible  Jet (shallow)  Turbine  Jet (deep)  Reciprocating  Centrifugal  19. WELL DRILLER: Robyn Barkley CERT. NO.: 934  Address: 2485 Watson  Elgin, SC 29045	•			1	1			und Cement I'l		Other		
17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft.  Type well disinfected Yes Type:  unpon completion No Amount:  18. PUBIT: Date Installed: Not installed Mit. Name: Model No.:  H.P. Volts Length of drop pipe ft. Capacity  Type: Submersible Jet (shallow) Turbine  Jet (deep) Reciprocating Centrifugal  19. WELL DRILLER: Robyn Barkley CERT. NO.: 934  Address: 2485 Watson  Eigin, SC 29045	<del></del>			<del> </del>	<del></del>	Depth: Fr	rom	10	D ft. to	40	1 ft.	
Type well disinfected Yes Type:  unpon completion No Amount:  18. PUMP: Date installed:  Mir. Name:  H.P. Volts Length of drop pipe it. Capacity  Type: Submersible Jet (shallow) Turbine  Jet (deep) Reciprocating Centrifugal  19. WELL DRILLER: Robyn Barkley CERT. NO.: 934  Address: 2485 Watson Eigin, SC 29045	<u> </u>			L		17. NEARES	T SOURCE OF	F POSSIBLE CO	NTAMINATION	e ft.	·dh	ectio
18. PUBITP: Date Installed:   Not installed	·							ype well disinfec	ted Yes T	ype:		
Mir. Name: Model No.:  H.P. Volts Length of drop pipe ft. Capacity  Type: Submersible Jet (shallow) Turbine  Jet (deep) Reciprocating Centrifugai  19. WELL DRILLER: Robyn Barkley CERT. NO.: 934  Address: 2485 Watson  Eigin, SC 29045	<del></del>	<del></del>		<del>                                     </del>		10 20112	Data Install		MENON MINO	Not instance		
H.P. Volts Length of drop pipe ft. Capacity Type: Submersible Set (shallow) Sturbine Set (deep) Reciprocating Set (deep) Reciprocating Set (deep)  19. WELL DRILLER: Robyn Barkley CERT. NO.: 934  Address: 2485 Watson Eigin, SC 29045	•			]	-			<del>-</del>	Model No :	LANGE TRANSPORT	13 <del>4</del> 1	
Type: Submersible Statismy Statisme  Set (deep) Reciprocating Centrifugal  19. WELL DRILLER: Robyn Barkley CERT. NO.: 934  Address: 2485 Watson  Eigin, SC 29045		<del></del>		1	1	H.P.	Volts		pipe			gpn
☐ Jet (deep) ☐ Reciprocating ☐ Centrifugat  19. WELL DRILLER: Robyn Barkley CERT. NO.: 934  Address: 2485 Watson  Eigin, SC 29045				<u></u>		Type: 🗆	Submersible	☐Jet (she	allow)	☐ Turbine	•	
Address: 2485 Watson Eigin, SC 29045	1						] Jet (deep)					
Eigin, SC 29045	<del></del>			<del> </del>	<del></del>				y veri. KO.:	934	₹	
	1			1	1	AUGIESS:						
	indicate W	later Bearing 7	ones files		T	7	****					
a 2nd sheet if needed)				1	L	1						
5. REMARKS: Telephone No.: (603)438-1331			<del> </del>									
20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under	f					20. WATER Y	WELL CONTR	ACTOR'S CERT	TEICATION: Th		ı under my	1
direction and this report is true to the best of my knowledge and ballef.	1					direction and	uns report is tr	ue to the best of	my knowledge £	unu belef.		
	1					1	0					
1 10 1 10 -	1						1 1	2-11	·	46 PP	,	
Signed: Man Bankley Date: 12/27/2006	1						myn /	zan Weng/	_ Date:	12/27/200k	<u> </u>	
Authorized Regresentative	ı					1 Author	wy representativi	• /				



#### **Bureau of Water**

	OIR LIMBIECT I	T NUSTER	<u> </u>								1
1. WELL ON	MER INFORM				6. PERMIT NU	MBER:	877	7			
Name:		(lest)	tal Group, Inc	C. (first)							
Address:	P. O. Box	427		• •	7. USE:						
					Resider		□ Public S		Process		
City:	Eigin	State:	SC .	Zip:29045	☐ Irrigatio		☐ Air Cond	_	☐ Emerge		
Talankan	Martin		Ua		☐ Test W		Monitori		Replace		02000
Telephone: \	Work: N OF WELL:		Home:		8. WELL DEP	ın (completed	i)	Date Started:		<del>8</del> /2	8/2006
Name:			ud's Chevro	1/Site		15	.fL	Date Complete	wi:	12/4	5/2006
Street Add	_		or St/1600 T		9. Mud Ro			Cumpen	Bored	4.65/ }	
	F *	· uyw			Dug	-	☐Air Rota	гу	Driven		
City:	Columbia,	SC	Zip:		□Cable 1		Other			_	
COUNTY:	Richland		-		10. CASING:	☐Threeded	<b>✓</b> Welded		<del></del>		
	34°00.77	Longitude:	81°00.97		Diam.:		10	Height: Above			
3. SYSTEM I	NAME:	SYSTEM NU				<b>☑</b> PVC		Surface			
	~ <del>~~~</del>	<del></del>			1	☐ Steel	☐ Other	Weight		•	
4. CUTTING	SAMPLES:	☐ Yes	No.	<del>_</del> _		***************************************	feet depth	Drive Shoe?	☐ Yes	Z	No
Geophysic	zi Loos:	☐ Yes	☑ No		11. SCREEN	in. to	feet depth	<u> </u>		<del> </del>	
				Depth to	Type:	PVC		Olam.:	4"		
For	rmation Descri	ption	Thickness of Stratum	Bottom of	Stot/Gauge	.020		Length:	20'		
				Stratum	Set Betwee	ज्ञाः <u>1</u>	ft. end 10	î. Î.	<del>_</del>		
Red/t	orown claye	y sand	27'	27¹	Sieve Analy	ysis	T Yes	_ IL s (please enclos	<b>e)</b>	_	No.
		sand (wet)		45'	12 STATIC W	ATER LEVEL	•		surgace after 24 h		
	Jey	(400)	<del></del>				Land Surface			~#5	
			<u> </u>	I	1	ft. after	_hrs. Pumping		G.P.M.		
				I ———	Pumping T Yield:	Test:	☐ Yes	(piezee encios	<b>:e)</b>		☑ No
			<del>                                     </del>		14. WATER Q						
			ļ				]Yess ☑ No	Bacteriai Ar	nalyal∐ Yes	No.	7
			[	Ī	15. ARTIFICIA	close isb result VL FILTER (filt		Yes	□ No	<del></del>	
				·	installed for	rorn		ft. to	45	R.	i
<del></del>			<b>  </b>	1	Effective s	ize		Uniformity Coe	Miclent		
			[	1			☑ Yes und Cement □	☐ No Concrete ☐ (	Other		
				<u> </u>	Depth: Fro	om	10	ft. to	40	A.	
	<del></del>		<b>  </b>	<u> </u>	17. NEAREST		POSSIBLE CON ype well disinfect				direction
			[	1			unnon compl	ed Yes iy lesion 🔽 No	Amount:		
	<del> </del>					Date Installed	:		Not installed	Ø	
	·····		<b> </b>	<u></u>	Mir. Name H.P.	voits	I gnoth of a	Model No.:	A C		
			L I	Ī		Vois Submersible	_ Length of drop □ Jet (she		ft. Capacity  Turbine		_ gpm
					<u> </u>	Jet (deep)	□Recipror	cating	☐ Centrifu	gai	
			<b>  </b>		19. WELL DR	ILLER: 2485 Watson	Robyn Berkiey	CERT. NO.:	934	,	
				<b></b>		Elgin, SC 290					
	iter Bearing Zo				1						b
	nd sheet if nee	eded)	L		1	64	(mm				
5. REMARKS	<b>9</b> :				Telephone		(803)438-1331 ACTOR'S CERTI		s well was drilled	I melan	TODA'
							e to the best of r			wi <b>ut</b> i i	·117
						A		•			
					1	1. 1	2-61	•	40		j
					Signed: /[//	My /	Barkley	Date:	12/27/2006		
····		<del></del>			1 ~~~	The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa		····			



			<u> </u>							
	MER INFORM				6. PERMIT N	AMBER:	877	,		
Name:	Palmetto E	Environment (last)	bal Group, In	C. (first)			<u>.                                    </u>			
Address:	P. O. Box	427		•	7. USE:					
l					Reside	ntial	☐ Public S	upply	<b>☑</b> Process	i
City:	Elgin	State:	SC	Zip:29045	☐ Irrigatio	XT)	□ Air Cone		☐ Emerge	
·					☐ Test W		□Monitori	ng Well	□Replace	_
Telephone:		40.50	Home:		8. WELL DEF	TH (completed	n)	Date Started:		9/28/2006
•	N OF WELL:	<del>-</del>		1014		4 <del></del>				484459355
Name:	•		ud's Chevro			45	<u>ft</u>	Date Complete		12/15/2006
Street Add	ress:	230/ Taylo	x St./1600 T	wo Notch		otery	□.Jetted		Bored	
	Cabaahia	80			□Dug □Cable	Page 1	☐Air Rota	Ty	CiDriven	
Cty:	Columbia, Richland	SC	Zip:		10. CASING:		☐Other ☑ Wekled	· · · · · · · · · · · · · · · · · · ·		
B		Longitude:	04900 07		1	L. Integgad	√a Ø1∧Ackted		<b>—</b>	
Latitude:		<del></del>			Diam.:			Height: Above		
3. SYSTEM	NAME:	SYSTEM NU	MBERC		Type:	☑PVC		Surface		
4. CUTTING	RAMDI SC.	☐ Yes	ZI No		٠ ١	□ Steel	☐ Other	Weight		• • • • • • • • • • • • • • • • • • • •
T. COLUMB	gantled:	<b>≟ 16</b> 5	M 140			in. to45	feet depth	Drive Shoe?	☐ Yes	No No
Geophysic	ai i one.	☐ Yes	<b>☑</b> No		11. SCREEN	in. to	met debiu	<u> </u>		
- Состинуви	en entitor	- 168		Deoth to	Type:	PVC		Diam.:	4"	
For	rmation Descri	ption	Thickness of Stratum	Bottom of	Slot/Gauge	× .020	<del></del>	Length:	20'	
			ORGENI	Stratum	Set Betwee	en: 1	ft. and 10	n.		
Redf	brown claye	v sand	27'	27'	Sieve Anal		fit. and	_ft.   (please enclos	-at	[7] No
				<i>E.1</i>		ysis VATER LEVEL		Aversea exicigo	e)	M NO
Yellow to	gray clayey	sand (wet)	18'	45'				ft. below land a	surgace after 24 h	OUITS
							Land Surface		004	
					Pumping 1		_hrs. Pumping	(please enclos	G.P.M.	⊠ No
					Yield:			fluring asimos	~,	PC1 140
					14. WATER C					
	<del></del>	<del></del>			Chemical .	Analysis 🗀 close lab resull	]Yes ☑ No	Bacterial Ar	naiyai⊡ Yas	No
					15. ARTIFICE	U FILTER (配	er pack)	✓ Yes	□ No	
		7.0.780			Installed fr	rom	44	ft. to	45	<b>11.</b>
	···				Effective s			Uniformity Coe	filicient	
							<b>Z</b> Yes and Cement □	Concrete C	Other	
					Depth: Fr	om	10	ft. to	40	ft.
<del></del>					17. NEAREST	SOURCE OF	POSSIBLE CO		ft.	• • • • • • • • • • • • • • • • • • • •
					<u> </u>	T ₁	ype well disinfect			
<del> </del>	<del></del>				18. PUMP:	Date installed	rathou coulds	etion V No	Not installed	(Z)
					Mfr. Name	×		Model No.:		
					H.P.	Volts	Langth of drop		ft. Capacity	gpm
	· · · · · · · · · · · · · · · · · · ·	<del></del>	<del>                                     </del>			Submersible Jet (deep)	□Jet (sha		☐Turbine ☐Centrifu	cei
					19. WELL DR	ILLER:	Robyn Barkley		934	
					Address:	2485 Watson				
indicate We	ter Bearing Zo	ones (Use			1	Elgin, SC 290	rij			
	nd sheet if nec	•								
S. REMARKS			·	L	Telephone		(803)438-1331			
					20. WATER V	VELL CONTRA	CTOR'S CERTI		s well was drilled	under my
					direction and	his report is tru	e to the best of n	ny knowledge a	nd belief.	
						0				
					1	l. M	and -		40.000000	
					Signed: ///	zed presentative	wyvey/	_ Date:	12/27/2006	
L		······································			Autori	Company of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro				



#### **Bureau** of Water

TRUX.	USE PROTECT	e action of the								
1. WELL ON	NER INFOR	AATION:			S. PERMIT NU	MBER:	877			
Name:			al Group, in	C.						
		(last)	-	(first)		·			<del> </del>	
Address:	P. O. Box	427			7. USE:				F9-	
					Resider		□ Public S		Process	
City:	Eigin	State:	SC	Zip:29045	☐ irrigation		☐ Air Cons		☐ Emerger	-
Valence	lål-ul-		Uemer		8. WELL DEP		☐ Monitori	ng vven Date Started:	Replace	9/28/2006
Telephone:	N OF WELL:	AQ.51	Home:		O. WELL DEP	ru (combine	ı)	DEED SERVED:		8/20/2000
Name:			ud's Chevro	n/Sita	1 4	5	n.	Date Complete	•	12/15/2006
Street Add		•	or St./1600 T					Oate Company	₩ Bored	12/13/2000
Co con ran	nçaş.	zoor rayk	, OE 1000 I	MO LEGISTE	DDug	and y	☐Air Rota	***	□ Driven	
City:	Columbia,	SC	Zio:		Cable T	'ani	□ Other	<b>~</b> 3	<b>444</b>	
	Richland		Ly.		10. CASING:		Welded	1	<del></del>	
Latitude:		Longitude:	81°00 07		Diem.:		48	Height: Above/	Bolow	
2. SYSTEM		SYSTEM NU				<b>☑</b> PVC		Surface		
2. 9191WH	· West	SIGIEM NU			i ype:	©Steel	Other	Weight		
4. CUTTING	CAMPI CC-	☐ Yes	Z No		<b>ተ</b>	in. to45		Drive Shoe?		Z No
7. 00111110	OMITHIA.	L 169			<del></del>	in to	feet depth	Dille Silver	CI 100	<b>21</b> 140
Geophysic	el Look:	☐ Yes	☑ No		11. SCREEN	NE (U	rest debat	<u> </u>	<del> </del>	
<u> </u>	- Logon			Depth to		PVC		Diam.:	4"	
Fox	rmation Descri	iption	Thickness of Stratum	Bottom of	Slot/Gauge			Length:	20'	
<b></b>	<del></del>	- <del> </del>	CORRELL	Stratum	Set Betwee	n: <u>1</u>	ft. and 10			
Red/	brown claye	ev sand	27'	27'	Sieve Analy	sele	ft. and	ît. (please enclose	<b>-1</b>	No.
					12. STATIC W	ATER LEVEL	<u> </u>	(protess circus	·	W 100
Yellow to	gray clayey	sand (wet)	18'	45'	<u> </u>		·····	ft. below land s	urgace after 24 h	iours
					13. PUMPING				004	
					Pumping T	il singr	_hrs. Pumping Yes	(niosoo sorine	G.P.M.	<b>⊠</b> No
					Yield:			(present disease		
					14. WATER Q					
					Chemical /	Analysis 🔲 dose iab resuli	Yes 🛛 No	Becterial An	eiyai Yes	No
					18. ARTIFICIA	L FILTER (hit	er pack)	/ Yes	□ No	
					Installed for		44	ft. to	45	ft.
	····				Effective s	<b>79</b>		Uniformity Coe	ficient	
			1		16. WELL GR		Yes and Cement []	Opposets Cl. (	Wher	
<del>}</del>		·····			Depth: Fro	MTN	10	ft. to	40	fL.
					17. NEAREST		POSSIBLE CON	STAMMATION	ÍÌ.	direction
					l ——	T)	pe well disinfect	ed Yes Ty	pe:	<del></del>
<del></del>					18. PUMP:	Date Installed		etion 🔽 No	Not installed	
					Mir. Name			Model No.:		بك
						Volts	Length of drop		ft. Capacity	gpm
<del> </del>	· · · · · · · · · · · · · · · · · · ·					Submersible Jet (deep)	□Jet (sha □Recipro		☐Turbine ☐Centrifu	
					19. WELL DR	LLER:	Robyn Barkley		934	
	- <del> </del>	/			Address:	2485 Watson	-			
*\	A P A				4	Elgin, SC 290	145			
	ster Bearing Zi and sheet if ne									
5. REMARK			l		Telephone	No.:	(803)438-1331			
	<b>.</b>						CTOR'S CERTI	FICATION: This	well was drilled	under my
1							e to the best of r			•
1						Λ				
Į .					10	V s	61			
l					Signed:	m/	ank sen	Date:	12/27/2006	
L				.'	Authoriz	og/copresentative				



PROMOTE PROTECT PROMEN	<u> </u>	
1. WELL OWNER INFORMATION:		s. PERMIT NUMBER: 877
Name: Palmetto Environment	al Group, Inc. (first)	
Address: P. O. Box 427	<b>()</b>	7. USE:
		☐ Residential ☐ Public Supply ☑ Process
City: Elgin State:	SC Zip:29045	☐ Irrigation ☐ Air Conditioning ☐ Emergency
		☐ Test Well ☐ Monitoring Well ☐ Replacement
	Home:	a. WELL DEPTH (completed) Date Started: 9/28/2006
2. LOCATION OF WELL: AS-52		AP B A AAADIMAA
Name: Handy Pantry #65/Clor		45 ft. Date Completed: 12/15/2006
Streat Address: 2367 Taylo	r St./1600 Two Notch	
		□Dug □Alr Rotary □Driven
	Zip:	□Cable Tool □Other
COUNTY: Richland		10. CASING: Threeded Welded
Latitude: 34°00.77 Longitude:		Diam.: 1 th Height: Above/Below
2. SYSTEM NAME: SYSTEM NUI	WBER:	Type: ZPVC C Gelvanized Surface
4. CUTTING SAMPLES:  Yes	₹ No	O in. to _45 _ feet depth Drive Shoe?
	F2	in. to feet depth
Geophysical Logs: D Yes	₩ No	11. SCREEN
Formation Description	Thickness of Bottom of	
i omacon Description	Stratum Stratum	
		ft. and
Red/brown clayey sand	27' 27'	Sieve Analysis Yes (plaese endose) V No
Yellow to gray clayey sand (wet)	18' 45'	12 STATIC WATER LEVEL fl. below land surgece after 24 hours
. and to gray orayoy daire (not)	10 70	13. PUNIFING LEVEL Below Land Surface
		ft. afterhrs. Pumping G.P.M.
		Pumping Test:
		Yield:
		Chemical Analysis  Yes  No Bacterial Analysi Yes No
		Please enclose lab results
		15. ARTIFICIAL FILTER (filter pack) Yes No
		Installed from 44 ft. to 45 ft.  Effective size Uniformity Coefficient
		16. WELL GROUTED? Yes \(\Boxed{1}\) No
		☑ Neat Cement □ Sand Cement □ Concrete □ Other
		Depth: From 10 ft. to 40 ft.
		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
i		Type well disinfected Yes Type:unpon completion V No Amount:
		unpon completion No Amount:  18. FUND: Date Installed: Not installed  Mortel No:
		Mile. 14010.
		H.P. Volts Length of drop pipe ft. Capacity gpm
		Type: Submerable Set (shallow) Submerable Set (shallow) Set (deep) Reciprocation Centrifunal
		Det (deep)   Reciprocating   Centrifugal
***		Address: 2485 Watson
		Elgin, SC 29045
Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		Telephone No.: (803)438-1331
		20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
		RI B. H
		Signed: 12/27/2006  Australizad Representative Deute: 12/27/2006



1140/4	THE PROPERTY!	- NESTER						····			
1. WELL ON	MER INFORM	IATION:			O. PERMIT NU	MBER:	877				
Name:			al Group, Ind	C. (first)							
Address:	P. O. Box	• •		(m.m.)	7. USE:						
	<del> </del>				□Resider	ntial	☐ Public S	vinos	Process		
City:	Egin	State:	SC .	Zip:29045	☐ trrigatio		Di Air Cond		☐ Emerger	ICV	;
Cay.	- Sau	CIRIO.	<b>S</b> C .	edi-entito	☐ Test W		☐ Monitori	-		•	
Telephone: \	Vork:		Home:		8. WELL DEP			Date Started:			/2006
	N OF WELL:	AS-53			1		-				
Name:			ud's Chevro	n/Site	1 4	15	ft.	Date Complete	d:	12/15	/2006
Street Add	-		or St/1600 T		9. Mud Ro		□ Jetted		✓ Bored	:	
					Duo		☐Air Rota	rv	Driven		
City:	Columbia,	SC	Zip:		□Cable 7	[act	□Other	-•			
	Richland	-	шp.		10. CASING:		Welded	1		<del></del>	
	34°00.77	Longitude:	94 ⁰ 00 07		i .	112 <b>001200</b>	4a STAARTED	Height: Above/	Bolow		
					Diam.:		<del>-1</del>	1 -			
3. System	MAME:	SYSTEM NU	MBERC		Type:	<b>☑</b> PVC	☐ Gelvanized				
					- 1	☐ Steel	Other	Weight			
4. CUTTING	Samples:	☐ Yes	<b>☑</b> No					Drive Shoe?	☐ Yes		lo o
		_	_			in. to	feet depth	<u> </u>			
Geophysic	ai Logs:	☐ Yes	✓ No		11. SCREEN				<b>AD</b>		
	rmation Descri		Thickness of	Depth to Bottom of	Type: Slot/Gauge	PVC	<del></del>	Diam.:	4" 20'		_
. 1-01	mauon Descri	ibracia:	Stratum	Strutum	Set Between		ft. and 10	Length:	20		<del></del> [
				Suemi		<u>- 1 </u>	ft. and	- n. R.			
Red/l	orown claye	y sand	27'	27'	Sieve Analy		☐ Yes	(piease enclos	9)	{	<b>7</b> 1 No
			40.	g ===	12. STATIC W		-				
Tellow to	gray clayey	sand (wet)	18'	45'	44	TEVEL DO	Land Surface	it below land s	urgace after 24 t	ours	
			<b>[</b>		1		Land Surface _ hrs. Pumping		G.P.M.		
<del></del>	*				Pumping T		_ 180 CHIPHI 	(piesse encios		r	Z) No
			Į i		Yield:				-,		
					14. WATER O						
					Chemical /		Yes 🔽 No	Bacterial An	etysi⊟ Yes	No	
					Please end	dose isb result		✓ Yes	□ No		
						om - Livier (ma	44	ft. to	45	ft.	
			]		Effective a			Uniformity Coe		- <del></del>	
					16. WELL GR	OUTED?	Z Yes	□ No			
							and Cement 🔲		Other		
					Depth: Fr	om Southern	10 POSSIBLE CO	ft. to	40 ft.		frection
			<del>                                     </del>		- REARES!		POSSIBLE COT ype well disinfect			"	n (sie orii)
			j i					letion 🗹 No	Amount:		
	<del></del>				18. PUMP:	Date installed			Not installed	Z	··········
			<u> </u>		Mfr. Name	£		Model No.:			
					H.P	Votts	Length of drop		ft. Capacity		_ gpm
		<del></del>		· <del></del>		Submersible Jet (deep)	□Jet (sha □Recipro	•	☐Turbine ☐Centrifu	ref	
			]		19. WELL DR		Robyn Barkiey		934	<del>7</del> 21	
						2485 Watson			35.		
<u> </u>					1	Elgin, SC 290	<b>145</b>				
	iter Bearing Zo ind sheet if nec										
S. REMARK	<b>3</b> :				Telephone		(603)438-1331				
									well was drilled	under n	ny .
	•				direction and t	nts report is tru	e to the best of r	my knowledge al	nd belef.		
					1	A					
					10	l h	- ba		40.0000000		
					Signed: Authoriz	confrontentialists	mesery_	_ Date:	12/27/2006		



### **Bureau of Water**

4 WE 1 CM	NER INFORM	MATION-	<u> </u>		C. PERMIT NU	MBER-	877		· · · · · · · · · · · · · · · ·	
Name:		Environment (tast)		C. (first)	at a state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the					
Address:	P. O. Box	427			7. USE:					
					Resider	ntal	☐ Public S		Process	1
City:	Elgin	State:	SC	Zip:29045	☐irrigatio		☐ Air Cons		□Emerge	7
				,	☐ Test We		Monitori		☐ Replace	
Telephone: \			Home:		8. WELL DEF	TH (completed	Ŋ	Date Started:		9/28/2006
	N OF WELL:			1024						12/15/2006
Name:	_	ntry #65/Clo			9. DMud Ro	15	_ ft.	Date Complete	g: Z Bored	12/10/2000
Street Add	ress:	230/ (ayic	r St./1600 T	MO MOICH		Raty	□ Air Rota	₩.	□ Driven	
City:	Columbia,	60	Złp:		□Cable 1	[anl		*7	Libitori	
	Richland		zp.		10. CASING:		Welded	Τ		
		Longitude:	81°00 97		Diam.:	1.202.00	4"	Height: Above	Below .	
3. SYSTEM		SYSTEM NU				Z PVC	☐ Galvanized	Surface		
	·				.,,,	☐ Steel	□ Other	Weight		_
4. CUTTING	SAMPLES:	☐ Yes	☑ No		10	in. to 45	feet depth	Drive Shoe?		☑ No
						in. to	feet depth	1		
Geophysic	zi Logs:	☐ Yes	☑ No		11. SCREEN					
			Thickness of	Depth to		PVC	<del></del>	Diam.:	4" 20'	<del></del>
Fo	rmation Deacr	ebalou.	Stratum	Bottom of Stratum	Siot/Gauge Set Between		ft. and 10	Length:		
		· · · · · · · · · · · · · · · · · · ·			-		ft, and	n.		
Red/	orown claye	y sand	27'	27'	Sieve Anal	yele	☐ Yes	(please enclos	e)	Ø No
Yellow to	arav clavev	sand (wet)	18'	45'	12 SIAIR W	IA) EK LEVEL	•	ft. below lend s	urgace after 24 l	hours
							Land Surface	<del>,</del>		
							_ hrs. Pumping		G.P.M.	N-
					Pumping 7 Yield:	168C	☐ Yes	(please enclos	18)	₩ No
					14. WATER C	UALITY	****		-	
					Chemical		Yes 🔽 No	Bacterial A	nalyst⊡ Yes	No[Z]
					18. ARTIFICIA	close lab result		V Yes	□ No	
	*					תאס		ft. to	45	n.
		<del></del>			Effective s			Uniformity Cos	efficient	
					16. WELL GR		✓ Yes and Cement □	☐ No Concrete ☐	Other	
	<del> </del>				Depth: Fr	om	10	12. to	40	
		····			17. NEAREST		POSSIBLE CO		ft.	direction
					<b>—</b>		ype well disinfect	lection ☑ No	Amount:	
					18. PUMP:	Date Installed	l:		Not installed	Z
					Mfr. Name	volts	A county and also	Model No.:	A Connection	
					H.P.	Submersible	Length of drop Let (she		_ ft. Capacity ☐Turbine	gpm
						Jet (deep)	□Recipro	cating	☐ Centrifu	gel
					19. WELL DR	ILLER: 2485 Watson		CERT. NO.:	934	
l					Autoress:	Eigin, SC 29				
Indicate Wa	ater Bearing Z	ones (Use			1					j
	and sheet if ne	eded)			1					
5. REMARK	\$:			. —	Telephone		(803)438-1331 ACTOR'S CERT		is well was drilled	under my
•							ue to the best of			wwe my
						<b> </b>				
					h	1	10			
					Signed:	ma B	ables	_ Date:	12/27/2006	
<u> </u>					Authori	zeli Ropmeentziive				



4 14/21 1 244	MED MEASUR	IATRON-	<b>`</b>	<del></del>	6. PERMIT	er (MBES)		877					
WELL OWNER INFORMATION:     Name: Paimetto Environmental Group, Inc.     (Rest)     (Rest)			C.	o. restall			911						
		(last)		(first)			·-··						
Address:	P. O. Box	427			7. USE:	)st_4	_			rw.			
CON-	El-i-	Ct-t-	60	7	Resid			Public St			Tocess		
City:	Eigin	State:	<b>8C</b>	Zip:29045	☐ Irriga			Air Cond  Monitorir	_		imergency teplaceme	mit	
Telephone: \	Nork:		Home:			PTH (comple			Date Starte			1/28/2	2006
	N OF WELL:				1		<del>-,</del>		JEN CHIE	<del></del>	•		
Name:		ntry #65/Clo	ud's Chevro			45	ft.		Date Comp	picted:	12	2/15/2	2006
Street Add	-		r St./1600 T			Rotery		Jetted		Z B	lored		
					□Dug			lAir Rota	y		<b>Driven</b>		1
City:	Columbia,	SC	Zip:		☐ Cabb			Other		<del>\</del>		<del></del>	
	Richland		04900 07			: OThreads	_		I ladades de				
Lattude: 3. SYSTEM I		Longitude: SYSTEM NUI			Diam.:	[7]m			Height: Ab				
J. 373   EM	WAIRE:	atai <b>em n</b> u	MSEIC		Туре:	☑ PVC □ Steel	∐Ott		Surface _ Weight _		<del></del>		
4. CUTTING	SAMPLES:	☐ Yes	☑ No		1	© in.to _4					_{[5}	l No	
: ::::			G_1 140				S fee		Wite Oilk	,, <u> </u>	~ 02	_ 1401	!
Geophysic	zi Logs:	☐ Yes	☑ No		11. SCREE		100		· · · · · · · · · · · · · · · · · · ·				-
			*Thickness of	Depth to	Type: _	PVC		_	Diam.: Length:	4" 20'			•
Fo	mution Descri	ption	Stratum	Bottom of Strutum	Slot/Gau	ge: .02 een: 1	0 # 200	_10_	Length:	20.			• 1
		· <del>····································</del>			- Car Della		IL and		R.				1
Red/l	brown claye	y sand	27'	27	Sieve Ar			☐ Yes	(please en				No
Yellow to	gray clavev	sand (wet)	18'	45'	12. STATIC	WATER LEV	EL.		ft. helnw la	nd sumana afi	tor 24 hour		
	<u>~-1101</u>		<del>-</del>		13. PUMPIN	G LEVEL Be	ow Land S	urface		nd surgace af	THE REAL PROPERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERTY AND PERT		
					-	H. WHEN	hrs. P	muhusi		O.F.100.			
					Pumping Yield:	j Test:		☐ Yes	(please en	CIOSO)			No
					14. WATER			_					
					Chemic	d Analysis Inclose lab re:	☐ Yes	☑ No	Bacteria	al Anelyai□	Yes N		
					18. ARTIFIC	IAL FILTER (	itter pack)	<del></del>	✓ Yes	□ N	0		
	***********				installed	from			ft. to	45	<u> </u>		
					Effective	SIZO ROUTED?		Yes	Uniformity No	Coefficient			
					✓ Neat	Centent []	Sand Cen	nent 🗆	Concrete [	] Other			
					Depth:	rom ST SOURCE (		10	ft. to		40 £	23-	
	· · · · · · · · · · · · · · · · · · ·		<b></b>		IV. NEARE	s i suukce (			ITAMENATI ed∐ Yes		_ TL	_ din	ction
										No Amoun			
					18. PUMP: Mir. Nar	Date Instal	led:		Model No.:	_	stalled 2		
					H.P.	Volts	Lengti	of drop		ft. Capa	city		gpm
					Туре:	Submersibi	E	Llet (shel	law)		urbine		
					19. WELL	Jet (deep)		Reciproc	CERT. NO		entrifugal 934		
	<del> </del>					: 2485 Wats Elain, SC	DIA			<del></del>	4 <b>9</b> T		
Indicate Wa	ater Bearing Zo	ones (Use			1								
	and sheet if nee	rded)			1								
5. REMARK	<b>5</b> :				Telepho			38-1331 CEDTI	BOATION.	This well was	drillad	or pm-	
						well com this report is					uimer uix	es illy	
									J				
					1		6 LO						
					Signed: Z	Myn 1	Sarkle	<del>]</del>	Date:	12/27/	/2006		
				<del> </del>	Auth	orized Representa	ive (	,					



# **Bureau of Water**

<b> </b>			<u> </u>							
1. WELL OWNER					6. PERMIT N	WMBER:	877	7		
Name: Pair		<b>nvironment:</b> ( <b>le</b> st)	zi Group, ind	C. (firat)						
Address: P. C	O. Box 42				7. USE:					
					□Resid		☐ Public 8		✓ Process	
City: Elgin	1 8	State:	SC :	Zip:29045	☐ irrigati		☐ Air Con	-	☐ Emerge	
					☐ Test V		☐ Monitori	ing Well	□Replace	
Telephone: Work:			Home:		8. WELL DE	PTH (completed	3)	Date Started:		9/28/2006
2. LOCATION OF			ulle Character	- /Cla-	1	AE	_	0-1-2	land.	4014578605
• •	-	-	ud's Chevroi			45 Potens	_ ft.	Date Complet		12/15/2006
Street Address:	à	2001 18910	or St./1600 T	MO MOSCII	□Dug	-omy	□Jetted □Air Rote	364	☑ Bored ☐ Driven	
City Cal	lumbia, S	ic.	Zio:		☐Cable	Tool	∐Ar Rote □Other	u J	LILTIVEN	
City: Col	-		Zip:			: DThreaded		1		
		Longitude:	81º00 07				1" <b>21</b> Westerd	Height: Above	z/Beirar	
3. SYSTEM NAME		Longilude; System Nub			Diam.: Type:	<b>☑</b> PVC		Surface		
re rem mant	1	EM NU!	risiVi		Abe:	MZIPVC □ Steel	☐ Other	Weight		
4. CUTTING SAMI	PLES:	☐ Yes	☑ No		1 ,	□ Steet 0 in. to <u>45</u>				- 21 No
		195	(E) 140		1	in.to	feet depth	1	149	
Geophysical Log	js:	☐ Yes	☑ No		11. SCREEN		value			
			*Thickness of	Dapth to	Туре: _	PVC		Diam.:	4" 20'	
Formatio	on Descript	tion	Thickness of Stratum	Bottom of	Slot/Gaug	.020		Length:	20'	
				Stratum	Set Betwe	- 1	ft. and <u>10</u> ft. and	_fl.		
Red/brown	n clayev	sand	27'	27'	Sleve Ans		☐ Ye	_ IL s (piesse encio	60)	₩ No
						WATER LEVEL	•			
Yellow to gray	wayey t	search (Met)	18'	45'	13. ÞÍJUÐÐ	G LEVEL Below	V Land Surface	n. pelow land	aurgace after 24 i	enies
		\	<u> </u>	<u> </u>			_hrs. Pumping		G.P.M.	
					Pumping Yield:		☐ Ye.	s (please enclo	66)	☑ No
			<del>  </del>	<del></del>	14. WATER					
					Chemical	i Analysis 🗀	Yes 🛛 No	Bacterial A	\nalysi⊡ Yes	No
		1	1 1	1	PICASO C	nclose lab result IAL FILTER (filb	St Dack)	✓ Yes	☐ No	
	<del></del>		<b> </b>			from		ft. to	45	ft.
					Effective	size		Uniformity Co	efficient	
		1	1	•	18. WELL G		✓ Yes and Cement 🗍	☐ No Concrete ☐	Other	
<del></del>			<del>                                     </del>	<del></del>	Depth: F	-rom	10	D fL to	40	A.
		1			17. NEARES	T SOURCE OF	POSSIBLE CO	NTAMNATION	E fL	
	<b></b>			1	<b> </b>	T	ype well disinfect			
			<del>                                     </del>	<del></del>	18. PUMP-	Date Installed	rushoss coust	oletion 2 No	Not installed	N
					Mfr. Nem	ne:		Model No.:		
					H.P	Volts	Length of drop		ft. Capacity	Shus
			<del></del>	<u> </u>		] Submersible ] Jet (deep)	□Jet (sha □Recipro		☐Turbine ☐Centrifu	
	W-1				19. WELL D	RILLER:	Robyn Barkle	y CERT. NO.:	934	
						2485 Watson Elgin, SC 290		. <del></del>		
Indicate Water Be			,		1	<del></del>				
	eet if need	(eq)			1 _	_ &4		1		
6. REMARKS:		<del></del>	_ <del></del>		Telephon		(803)438-1331		de suedi	t major en -
							ACTOR'S CERTI ue to the best of		ils well was drilled and belief.	wide my
					M	10 1-	i a			
					Signed: 16	Jaga Br	apley	_ Date:	12/27/2006	
			····		Autho	rizer Representative				



# **Bureau of Water**

PROM	OIE MOIECT	THURST LAN									
1. WELL OW	NER INFORM	NATION:			S. PERMIT NU	MBER:	877	-	<del></del>		
Name:	Palmetto E	Environment	zi Group, Ind	<b>3.</b>	1						
		(last)		(first)							
Address:	P. O. Box	427			7. USE:		_				
					□Resider		☐ Public Si	• • •	Process		
City:	Elgin	State:	SC :	Zip:29045	☐irrigatio	ก	☐ Air Cond	litioning	☐ Emerge:	ncy	
-	-			-	☐Test We	ell	☐ Monitorir	ng Well	□Replace		
Telephone: \			Home:		8. WELL DEP	TH (completed	0	Date Started:		9/28/20	06
2 LOCATIO	N OF WELL:	AS-57			1						
Name:	Handy Par		ud's Chevroi			15	ft.	Date Complete		12/15/20	<u>06</u>
Street Add	_				9. EMud Ro	xary	□Jetted		<b>☑</b> Bored		
		•			□Dug		☐Air Roter	ry	□ Driven		
City:	Columbia,	SC	Zip:		☐Cable 1		□Other				
	Richland		•		10. CASING:	Threaded	✓Welded				
Latitude:	34°00.77	Longitude:	81°00.97		Diam.:		1"	Height: Above/	Below		
3. SYSTEM		SYSTEM NU	<del></del>			<b>☑</b> PVC	☐ Gelvenized	Surface			
		AND THE PERSON NAMED IN COLUMN 198	P481 40		.,,,,,,	□ Steel	Other	Weight			
A CHITTING	SAMPLES:	☐ Yes	☑ No	·	† ^			Drive Shoe?		- - [2] No	
y. wii iing	grairLE3:	L 198	971 MD				•	Litte Silver	- 140	T. 140	
000000000000000000000000000000000000000	allane	<b>–</b> -			44 000	in. to	feet depth	<u> </u>			
Geophysk	cal Logs:	☐ Yes	☑ No	Denth to	11. SCREEN Type:	PVC		Diam.:	4"		
E~	rmation Descri	intion	Thickness of	Bottom of	Stot/Gauge		<del></del>	Length:	20'		
L			Stratum	Stratum	Set Between	en: 1	ft. and 10	n.	<del> </del>		
					7		ft. and	fL.			
Red/	brown claye	y sand	27'	27'	Sleve Anal	ysie	☐ Yes	(please enclos	e)		No
Vallana An	Oppu alam	pand fund	18'	45'	12. STATIC VI	ATER LEVEL	. — <del>—</del>	f holes ford	ueneen et - 64 t		
ONOM IO	Hay Clayey	sand (wet)	10	40	13 PLINIPINIS	LEVEL Rolm	v Land Surface	IL SCOW WITO S	urgace after 24 h	:: <del>::::::</del>	
		į	1				hrs. Pumping		G.P.M.		
	<del></del>				Pumping 7		☐ Yes	(please enclos	<b>e)</b>	$\square$	No
					Yield:						
·					14. WATER O		1 Van 179 ac	Doube-1-1 for		Ato Ta	
<u> </u>		<del></del>			Chemical /	Analysis 🗀 close inb resuli	] Yes 📝 No	Dactenei Ar	nalysi□ Yes	No	
l					18. ARTIFICA	L FILTER (fil)	er pack)	✓ Yes	□ No		
		·· · · · · · · · · · · · · · · · · · ·				תוסח		ft. to	45	R.	
					Effective a	ize		Uniformity Coe	dicient		
I					16. WELL GR	OUTED?	✓ Yes	□ No	<u></u>		
<u> </u>					Depth: Fr		and Cement 🖺	Concrete (	Other40	•	_
			1		17. NEADER	SOURCE OF	POSSIBLE COM	TAMINATION.	<del>40</del>	n. dîrec	ior
			<del> </del>								
							unpon compl	etion 🔽 No	Amount:		_
					18. PUMP:	Date Installed	ype well disinfact unpon compl i:	AA. A 222	Not installed	<b>Z</b>	
		<del></del>									
l					H.P	Volts	Length of drop		ft. Capacity ☐Turbine		pm
<del></del>				<del></del>		Jet (deep)			☐ Centrifu		
L					19. WELL DR	HLLER:	Robyn Barkley		834		
					Address:	2485 Watson					
ļ				ļ	4	Elgin, SC 290	1345				
	ater Bearing Z					!					
<u></u>	and sheet if ne	eded)			4	. Ale -	(DOM: 455 455				
5. REMARK	<b>3</b> :				Telephone		(803)438-1331 ACTOR'S CERTI		a wall was dawn	Harior mar	
l							ACTOR'S CERTI ue to the best of r			· uniti ill <b>y</b>	
l					SHOOM! END!	report is ill	_a ar are sest of f	, anomicuge il	. , <del>,</del>		
}					1 4-	A	•				
<b>\$</b>					Sem. 17	land 1	Berkley	Date:	12/27/2006	ţ	
l					Signed: //	THE PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDR	muren	_ Lais	<u> </u>		-
L						- Proposition					



### **Bureau of Water**

range.	OIE PROJECT	LANGELETA								
1. WELL OW	MER INFORM	MATION:			6. PERMIT NU	JMBER:	877			
Name:	Palmetto E	Environment (last)	tal Group, In	C. (first)						
Address:	P. O. Box	427		•	7. USE:	· · · · · · · · · · · · · · · · · · ·				
	•				Reside	ntial	☐ Public S	Supply	Process	<b>)</b>
City:	Elgin	State:	SC	Zip:29045	☐ larrigatio	ın	☐ Air Cond		☐ Emerge	
•	_		-	-	☐Test W	'efi	☐ Monitori	-	Replace	
Telephone: \		AC EO	Hame:		8. WELL DEP	TH (completed	i)	Date Started:		9/28/2006
	N OF WELL:		uda Char-	- 104e		. =	_	D-4- 0: 1:		4014Emann
Name:	•	•	ud's Chevro			15	₹ Thetterd	Date Complete		12/15/2008
Street Add	1688.	2301 18YK	or St./1600 T	MO IAOICU	9. Mud Ro	Hary	☐ Jetted		Bored	
City	Columbia,	90	78as		□Dug □Cable 3	[aci	☐Air Rota ☐Other	u y	□Driven	
City:	Richland		Zip:		10, CASING:		Welded	T	<del></del>	
	34°00.77	Longitude:	21 ⁰ 00 07		1	(@e20e0	1º €ZIWeiged	Linkship About	Polow	
2. SYSTEM		SYSTEM NU			Diam.:	<b>☑</b> PVC	<del></del>	Height: Above/		
क का का हाति ।	refure:	9191 <b>CM AU</b>	mber;		Type:	MIPVC □Steel	☐ Geivenized ☐ Other			
4. CUTTING	SAMDI EQ.	☐ Yes	Z No		1 0			Weight Drive Shoe?		☑ No
~ 40 t 1810	Great LEG.	₩ 166	GT 40		<u>u</u>	in. to <u>45</u>	feet depth	Unive Shoe?	⊔ 195	₩ No
Geophysic	zł Logs:	☐ Yes	☑ No		11. SCREEN	- 11. 210 ·	rost ucho!	<u> </u>		
			*Thickness of	Depth to	Type:	PVC		Diam.:	4"	
For	rmation Descri	ption	Stratum	Bottom of	Stot/Gauge			Length:	20'	
L				Stratum	261 BEIMES	en: <u>1</u>	ft. and 10	- ሲ ሲ		
Red/t	orown claye	y sand	27	27'	Sieve Anal		☐ Yes	_ it. i (pisase enciosi	e)	Ø No
Yellow to	gray clavev	sand (wet)	18'	45'		ATER LEVEL			urgace after 24 h	
	<u>,,</u>	(man)		-10			Land Surface		gawi 2:53 24 1:	
					<b>↓</b>	ft. after	_hrs. Pumping		G.P.M.	<u></u> .
					Yield:	řest:	☐ Yes	(please enclose	e)	<b>☑</b> No
					14. WATER C		Yes 🔽 No	Bacterial An	elveil Yes	MacZi
	<del></del>	<del></del>			Please en	close lab result	bs		mystal 162	No.
					18. ARTIFICIA	L FILTER (fil	er pack)	✓ Yes	□ No	
						om	44	ft. to		R.
	<del></del>	·			Effective s		✓ Yes	Uniformity Coe	mcient	
					Neat C	ement 🔲 Sa	and Cement 🗆		Other	
					Depth: Fr	om	10	ft. to	40	n.
							POSSIBLE CO			direction
					1	·	ype well disinfect unpon compi	suLi res ly ketion 1271 No.	Amount:	
					18. PUMP:	Date Installed	ype well disinfect unpon compl :		Not installed	2
						•				
			]		H.P.	VoltsSubmersible	_ Length of drop □Jet (sha		ft. Capacity ☐Turbine	gpm
						Jet (deep)	☐Recipro			gai
		•••			19. WELL DR	LLER:	Robyn Barkley		934	
		!			Address:	2485 Watson Elgin, SC 290				
a 2	iter Bearing Zo nd sheet if nee					-				
E. REMARKS	3:				Telephone		(803)438-1331			
							ACTOR'S CERTI ue to the best of r			under my
					Signed: Ra	lan 1	Barklen	Date:	12/27/2006	
						cog/Representative		, water	- PARTICANO	······
·						/				



### **Bureau of Water**

4 15000 5 600	NER INFORM				6. PERMIT	ANI STATEMENT	<u> </u>		877					
		Environment	al Group In	^	O. PERMI	<b>RUMBE</b>	P&a		0, 1					
Name:		chvironineni (last)		c. (first)	j									
Address:	P. O. Box			•	7. USE:									
					□Res	dential		ŪΡ	ublic St	tibiply		<b>Z</b> Process		
City:	Elgin	State:	SC	Zip:29045	□limig	ation			dr Cond	_		□ Emerge	•	
					☐ Tes	Well			(lonitorin	ıg Weli		Replace		
Telephone: \			Home:		8. WELL D	EPTH (c	ampleted	d)		Date Started	i:		9/2	8/2006
2 LOCATIO	N OF WELL:													
Name:	Handy Par	ntry #65/Clo	ud's Chevro	n/Site		35		_ft		Date Compl			12/1	5/2006
Street Add	iress:	2367 Taylo	r <b>St/1600</b> T	wo Notch	8. Mud	-			etted		-	Bored		
					□Dug				Vir Roter	y		□Driven		
City:	Columbia,	SC	Zip:			le Tool			Other	<del></del>				-
COUNTY:	Richland	Zongitude: &	r,0 AA 9-	,	10. CASIN	g; LITI	readed	2" Yangi		listatut Aba	an Madana	_		
				<u></u>	Diam.:	7		☐ Gaiv		Height: Abo				
3. System	NAME:	SYSTEM NU	MBERC		Туре:	ØP □s		☐ Otha		Surface Weight				
4 0100000	OAMBI EO.	☐ Yes	☑ No	· · · · · · · · · · · · · · · · · · ·	-}					Drive Shoe?	-	Yes	[2]	No
4. CUTTING	Samples:	LI TOS	#ZI NO		l ——	_Q in.t	0 <u>~2</u> 9		depth	Dissa gunas	· L	105		MU
Commission	el Lors	☐ Yes	₩ No		11. SCREE			1001	achai	l				
Geophysic	ai Luga.	L1 168		Depth to	Type:	PVC				Diam.:	2" 10'			
Fo	rmation Descri	iption	*Thickness of Strutum	Bottom of	Slot/Ga	ige:	.020		·	Diam.: Length:	10'			
			Suamin	Stratum	Set Bet	ween:	25		35	n. A.				
Red/	brown claye	w sand	35	35	Store A	nalysis		_ ft. and i	T Yes	π. (please enci	nee)			No
1100	Diotali Only	y carra			12. STATE		LEVEL							
					-					ft. below lan	d surgec	e after 24 i	TOUTS	
					13. PUMP			w Land Sui hrs. Pui			G.P.	M		
		<u> </u>			Pursoli	ng Test:	131			(please end				No
					Yield:	<u> </u>		•		•				
					14. WATE		TY	- v- · · ·				7 V	A1_F	a
		· · · · · · · · · · · · · · · · · · ·				zai Analy enclose			KI NO	Bacterial	<b>VITELYSIL</b>	7 102	No	1
					15. ARTIF	CIAL FIL	TER (#	ter pack)		✓ Yes		No		
								24		ft. to	35		ft.	
	<del></del>	·			Effective 16. WELL		172			Uniformity C	oemcien	<u> </u>		
					Nez	t Cemen	S	and Ceme	ent 🗆	Concrete	Other			
					T Depth:	From			0	ft. to		24	fl.	
		<del></del>	<b>!</b>		17. NEAR	ST SOL				TAMINATIO		n	_	direction
			1		-			Tubou Abe atom o	n compl	etion 🔽	No Am	ount:		
				· · · · · · · · · · · · · · · · · · ·	18. PUMP		installe	d:	7		No	t installed	Z	
					Mfr. Na			1		Model No.:		annall .		
			]	}	H.P	Volts □ Subn		Length o	or arop let (shal		1L C	epacity □Turbina		gpn
<b></b>					7	☐ Jet (d	leep)	□F	Reciproc	cating		☐ Centrifu		
					19. WELL	DRILLE	t		Barkley	CERT. NO.		934		
				•	Addres	s; 2485 Flata	Watsor , SC 29							
Indicate W	eter Bearing Z	anes (Use	<b></b>	}	┪	الالالث	, <del></del> 20	<del></del>						
	and sheet if no		Į											
5. REMARK	<b>Š</b> :		<del></del>			one No.:		(803)43						
l										FICATION:			under	my
l					allection 8	na viis re	port is ti	ue to the t	Desi OI (	ny knowledg	s auto 001	INST.		
l					1	n #	_	. 14						
ł					Signed: 1	Yola.	1	Barbla.		Date:	12	/27/2006	<b>:</b>	
l						incrized, ke	resentativ	2 1	<i></i>	, JEW	<i></i>	- LEWY		
L			<del></del>			y ·				<del></del>				



4 WEST AND	NER INFORM	ATION-			6. PERMIT NU	MRER:	877			
Name:		invironment (lest)		C. (first)	W. PINTERS PER		<b>077</b>			
Address:	P. O. Box			fra each	7. USE:					
,					Reside	ntial	☐ Public S	upply	Process	
City:	Elgin	State:	SC	Zip:29045	☐ Irrigatio	n	☐ Air Cond		☐ Emerger	ncy
Quy.	·				☐ Test W		☐ Monitoria	ng Well	Replace	
Telephone: 1			Home:		8. WELL DEP	TH (completed		Date Started:		9/28/2006
2 LOCATIO	N OF WELL:					_				
Name:	Handy Par	ntry #65/Clo	ud's Chevro	n/Site	3	15	_ ft.	Date Completed		12/15/2006
Street Add	iress:	2367 Taylo	r St./1600 T	wo Notch	9. LiMud Ro	dary	□Jetted		<b>✓</b> Bored	
					□Dug		☐Air Rota	ry	☐Driven	
City:	Columbia,	SC	Zip:		☐Cable 1		☐Other	<del>,</del>		
COUNTY:	Richland		.0		10. CASING:	□Threaded				
	34°00.17				Diam.:		2 ⁿ	Height: Above/E		
3. SYSTEM	NAME:	SYSTEM NU	MBER:		Type:	<b>☑</b> PVC		Surface		
					4 .	☐ Steel	☐ Other	Weight		_
4. CUTTING	SAMPLES:	☐ Yes	✓ No		0		feet depth	Drive Shoe?	☐ Yes	☑ No
			_			in. to	feet depth			
Geophysic	cal Logs:	☐ Yes	<b>☑</b> No		11. SCREEN				<b>CO</b> E	
	rmation Descri	eden.	*Thickness of	Depth to Bottom of	Type: Slot/Gauge	PVC .020		Diam.:	2" 10'	<del></del>
Fo	INIEUDII Descri	buan	Stratum	Stratum	Set Between	n: <u>25</u>	ft. and 35	ft.		
					-		ft. and	ft.		
Red/	brown claye	y sand	35	35	Sieve Anal	<b>alav</b>	∏ Ye∎	(please enclose	)	No.
					12. STATIC W	ATER LEVEL	•	A haloudend or		
<del></del>	· · · · · · · · · · · · · · · · · · ·				13. PIIMPING	LEVEL Rolm	v Land Surface	ft. below land st	ingace anter 24 i	оше
[							_ hrs. Pumping		G.P.M.	
					Pumping ? Yield:	Test:	☐ Yes	(please enclose	) 	Ø No
					14. WATER C		Yes 🔽 No	Recterial And	eheili Yes	No.
						ciose lab resul				
					18. ARTIFICIA			Yes	□ No	
					Installed fr	om	24	ft. to	35	R.
		<del></del>			Effective s		✓ Yes	Uniformity Coef	micrent	
ł					Neat C	ement 🗆 S	and Cement	Concrete 🗀 C	Xiner	
		· · · · · · · · · · · · · · · · · · ·			Denth: Fr	om	(	ff. fo	24	ft.
					17. NEAREST	SOURCE OF	POSSIBLE CO	NTAMINATION:	n.	direction
ĺ						^Ţ	ype well disinfect	led□ Yes Ty _l letion ☑ No	Pe:	- <del></del>
	<del></del>	<del></del>	<del></del>		18. PUMP:	Date Installar	i:		Not installed	121
<u></u>					Mfr. Name			Model No.:		
					H.P	Volts	Length of drop		ft. Capacity	gpm
<u> </u>				<del> </del>		Submersible	☐ Jet (sha		Turbine	eal .
					19. WELL DR	Jei (deep)	Recipro  Robyn Barkley		☐Centrifu 934	
	•			:		2485 Watson Eigin, SC 29		, January	<b>304</b>	
	ater Bearing Zo				7		-			
Construction of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of th	2nd sheet if nee	eded)			<b>↓</b>		****			
S. REMARK	S:				Telephone		(803)438-1331		عمدر المدد	r majori mesa
							ACTOR'S CERTI ue to the best of i			uncer my
					D	1 1	20.6/-	Datas	12/27/2006	
}					Signed: //	zad dan manantalive	arkley		IZIZ I IZUUD	
L						0				



# **Bureau of Water**

L-tertion:	OIR MODEL	LYCHOLC'N	1									
1. WELL OW	VNER INFORM	EATION:			6. PERMIT NU	MBER:	877					
Name:	Palmetto E	Environment (last)	tal Group, in	C. (first)				`				
Address:	P. O. Box	• •		<b></b>	7. USE:					***		
radross.	1 . O. DOX	761			Reside	ntial	☐ Public S	hmnle	Process			
<b>~</b>	en.	O+	00	71			☐ Air Con	• • •	_			
City:	Elgin	State:	SC	Zlp:29045	☐ Irrigatio				□ Emerge			
Telephone: \	Work:		Home:		Test W		☐ Monitori	Date Started:	Replace		28/2	006
	N OF WELL:				1	(	•	3013 014154.		-		
Name:			ud's Chevro	n/Cita	1	35	_ft.	Date Complete	4.	12/	15/2	กกต
	-							Date Complete		12	IJIZ	000
Street Add	11.002:	230/ Tayit	or St./1600 T	MO MOICU		July 9			Bored			
					□Dug		□Air Rota	iry	☐Driven			
	Columbia,	SC	Zip:		☐Cable 1		☐Other					
COUNTY:	Richland	_	- 0 - 0		10. CASING:	☐ Threaded	Welded					
Latitude:	34°00.77	Longitude: 8	700.97		Diam.:		2 ⁿ	Height: Above/	Below			
3. SYSTEM	NAME:	SYSTEM NU	MBER:		Type:	<b>Z</b> PVC	☐ Gaivanized	Surface				
					] "	☐ Steel	Other	Weight				
4. CUTTING	SAMPLES:	☐ Yes	Z No	· · · · ·	1o	in. to25		Drive Shoe?			No	
						in. to	feet depth	5		_		
Geophysic	nol I none	☐ Yes	☑ No		11. SCREEN	ar. to	idet debui	<u> </u>	<del></del>			
Сворнувк	on Luga.	<u> </u>		Depth to	Type:	PVC		Diam.:	2"			
For	nnation Descri	intion	*Thickness of	Bottom of	Slot/Gauge		<del></del>	Length:	10		<del></del>	
		puoi	Stratum	Stratum		n: 25	ft. and 35		-10			
					1	<del></del>	fl. and	- fiL				
Red/	brown claye	y sand	35	35	Sleve Analy	yesis	☐ Yes	(please enclose	e)			No
					12. STATIC W	ATER LEVEL		- 4		·····		
<del></del>								ft. below land s	urgace after 24 l	nours		
			]				Land Surface					
						in.aner Test:	_ hrs. Pumping	(please enclose	G.P.M.			No
					Yieid:	COL.	∐ 166	(bierae eucioa	2)		M	No
					14. WATER O	UALITY		<del></del>	<del></del>			
			İ				Yes 🔽 No	Bacterial An	alysi⊡ Yes	No	7	
						close lab result	8					
			<u> </u>		15. ARTIFICIA		er pack)	✓ Yes	□ No			
						om	24	ft. to	35	ft.		
					Effective s	ze		Uniformity Coe	ficient			
					16. WELL GR	CUIEDY	Yes	□ No	Net			
					Depth: Fr	ement i'i se	and Cement 🗆	fi. to	24	*		
			1				POSSIBLE CO		<u>&amp;-</u>	<u> </u>	dina	ction
							ype weil disinfect				~	
							unpon comp	letion 🔽 No	Amount:			
					18. PUMP:	Date installed			Not installed	Z		
					Mfr. Name			Model No.:				
					H.P.	Volta	Length of drop		fi. Capacity			gpm
-	<del></del>					Submersible	☐Jet (sha		☐Turbine			
					19. WELL DR	Jet (deep)	Robyn Berkley		LICENIANU 934			
						2486 Watson Eigin, SC 290		CERT. NO.	<b>30</b> 1	,		
Indicate Wa	ater Bearing Zo	ones (Use			1	Min 400 200						
	and sheet if nee		1									
5. REMARK			I	<del></del>	Telephone	No.:	(803)438-1331					
							CTOR'S CERTI		well was drilled	under	MV	
							e to the best of i					
					our Del	1 h	m. hl.	Date	12/27/2006			
			······································		Signed: <u>////</u>	Taplas in	unginen /	Date:	12/2//2005			
									—			_



1. WELL OW	NER INFORM	ATION:	····		6. PERMIT NU	MBER:	877	,		
Name:	Palmetto E		al Group, in	C. (first)			5			
Address:	P. O. Box 4	• •		. ~~~	7. USE:		·			
		· <del>-</del>			Resider	ntial	☐ Public S	upply	Process	
City:	Elgin	State:	SC .	Zip:29045	□lmigatio	n	☐ Air Con		□Emerge	
• • •	•		-		☐Test W	el)	☐ Monitori	ng Weli	□Replace	
Telephona: \	Work:		Home:		8. WELL DEP	TH (complete	d)	Date Started:		9/28/2006
	N OF WELL:	RW-4		***************************	1	• •	-			
Name:	Handy Pan	try #65/Clo	ud's Chevro	n/Site		5	ft.	Date Complete	id:	12/15/2006
Street Add	inees:	2367 Taylo	r St/1600 T	wo Notch	9. DMud Ro	otary	□Jetted		<b>✓</b> Bored	
		•			□Dug		☐Air Rota	ry	□Driven	
City:	Columbia,	SC	Zip:		☐Cable 1	ioal	□Other	,		
COUNTY:	Richland	_	0		10. CASING:	☐ Threaded	☑ Welded			
Latitude:	34°00.77	Longitude: 8	7°00.97	7	Diam.:		2"	Height: Above/	Below	
3. SYSTEM	NAME:	SYSTEM NU	MBER:		Туре:	☑ PVC	☐ Galvanized	Surface	·	
						☐ Steel	☐ Other	Weight		
4. CUTTING	SAMPLES:	☐ Yes	☑ No		]o	in. to25	feet depth	Drive Shoe?	☐ Yes	☑ No
						in. to				
Geophysic	al Logs:	☐ Yes	☑ No		11. SCREEN					
_		_	*Thickness of	Depth to	Type:	PVC		Diem.:	2" 10'	
For	rmation Descrip	picon	Stratum	Bottom of	Sict/Gauge Set Betwee		8 and 85	Length:	10	<del></del>
				Stratum	Ser Dermer	n: <u>25</u>	ft. and <u>35</u>	. n.		
Red/i	brown claye	y sand	35	35	Steve Anal	yels	☐ Yee	(please enclos	e)	₩ No
					12. STATIC W	ATER LEVE				
					42 10 14 10 12	TEVEL PAIN	w Land Surface	it. below land s	surgace after 24 i	nours
							_ hrs. Pumping		G.P.M.	
					Pumping 1	est:		(please enclos		<b>⊠</b> No
					Yield:					
					14. WATER C		7 V [7] N-	Doubodal Au		A full**ZB
	<del></del>				Chemical a	rangsis (. close lab resu	]Yes ☑ No	Bacterial Ar	nalysii Yes	No⊠
					15. ARTIFICIA	L FILTER (8	ter pack)	✓ Yes	□ No	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>
						om	24	ft. to	35	ft.
			ļ	· · · · · · · · · · · · · · · · · · ·	Effective s		I Van	Uniformity Coe	ficient	
ł	•				7 Neat C	ement DS	and Cement □	Concrete [7]	Other	
				<del></del>	Depth: Fr	om	C	fL to	24	ft.
					17. NEAREST		FPOSSIBLE CO		ft.	direction
					1		ype well disinfect	led⊡ Yes Ty letion ☑ No	/pe:	
		· · · · · · · · · · · · · · · · · · ·	-		18. PUMP:	Date installe		DAY ING	Not installed	121
					Mfr. Name	:		Model No.:		
					H.P	Volts	_ Length of drop		ft. Capacity	gpm
	<del> </del>					Submersible Jet (deep)	□Jet (she		☐Turbine ☐Centrifu	
					19. WELL DR		Robyn Barkley		934	
						2485 Watson	1	,	32.	
*Indianta 144	des Boorles 7-	AL-			4	Eigin, SC 28	u45			
	iter Bearing Zo Ind sheet if nee									
5. REMARK					Telephone	No.:	(803)438-1331			
					20. WATER W	ELL CONTR	ACTOR'S CERT	FICATION: This		under my
]					direction and t	his report is tr	rue to the best of	my knowledge a	nd belief.	_
]						_				
					1	1 1	7.6/	-		
ļ					Signed: <u>Flat</u>	ma /	Barkley	_ Date:	12/27/2006	<u> </u>
	<del> </del>				Authori	ser Representative		· · · · · · · · · · · · · · · · · · ·		



#### Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

CRAWFORD ENVIONMENTAL SERVICES MR CHARLES F. CRAWFORD, III 15 CHURCH AVENUE SW ROANOKE, VA 24011

MAY 2 7 2014



Re: Corrective Action Status Report Review

UST Permit # 07584, University Mart, 2367 Taylor St., Columbia, SC Release #1 reported January 30, 1991; CA#47811

Release #2 reported April 17, 1998; CA#47812

UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC

Release reported December 31, 1991; CA#47813

UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC Release reported December 30, 1991; CA#47814

Contract #IFB-5400007095-1/30/2014-EMW; PO # 4600322226

Richland County

Dear Mr. Crawford:

The Underground Storage Tank Management Division understands that corrective action commenced on May 16, 2014 when the former remedial system was placed back into operation. Therefore, the 36-month "Site Incentive Period" also commenced on May 16, 2014. As outlined in Specific Requirement #3 of the bid solicitation, a 10% incentive will be paid to Crawford Environmental Services provided that corrective action at the referenced facility is completed on or before midnight on May 17, 2017.

The next Corrective Action System Evaluation (CASE) Report is due on or before August 23, 2014.

On all correspondence regarding this site, please reference the UST Permit #07584, 07777, or 12352. If you have any questions, please contact me by phone at (803) 898-0606, by fax at (803) 898-0673, or via email at bryantjc@dhec.sc.gov.

Sincerely,

John Bryant, Hydrogeologist Corrective Action Section UST Management Division

Bureau of Land and Waste Management

# Document Receipt Information

Hard Copy	CD CD	Email	
Date Received	2-19-15		
Permit Number (	07584/0	7777/13	2352
Project Manager		•	
Name of Contractor	Sonya ( Chawford	Environm	nent
UST Certification Numb	oer		
Docket Number 2	51 tech 07584)	185 kch	120 kcs
(	075 84)	(0 7777)	(12352)
Scanned	·		
CASE	-Noven	Les 2014 (	Sampling Date



February 13, 2015

Ms. Sonya Utz
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

RE: Corrective Action System Evaluation – November 2014 (Sampling Date)
Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352

Dear Ms. Utz:

Enclosed please find one copy of the November 2014 Corrective Action System Evaluation (CASE) report prepared by Crawford Environmental Services, Inc. (CES) for the referenced site. Should you have any questions regarding the enclosed material, or if additional information is required, please feel free to contact Charlie Crawford or myself at 540.343.6256.

Best Regards,

Daniel Fisher Division Manager

Y. Fren

CC:



# **Corrective Action System Evaluation Report**

Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352
February 13, 2015
Revision 0

#### CORRETIVE ACTION SYSTEM EVALUATION REPORT

Handy Pantry #65/University Mart & Cloud's Chevron Intersection of Taylor Street and Two Notch Road Columbia, South Carolina UST Permit # 07584 / 07777 / 12352

#### **Submitted To:**

Ms. Sonya Utz
State of South Carolina
Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

#### Prepared For:

Ms. Sonya Utz
State of South Carolina
Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

February 13, 2015 CES Job Number: 7.0547

Prepared By:

Y. Files

Daniel J. Fisher Division Manager Reviewed By:

Charles F. Crawford President / CEO Approved By:

B. Thomas Houghton

P.G. #2343



Site ID: 07584/07777/12352

1.0 Facility Information	3
1.1 Project Information Summary	3
1.2 Facility Information	
1.2.1 Site Address	
1.2.2 Owner Operator Information.	3
1.2.3 Contractor Information	3
1.2.4 Laboratory Information	3
2.0 Corrective Action Activities	4
2.1 Corrective Action Activities Summary	4
2.1.1 Groundwater Sampling	5
3.0 Summary	

#### **Tables**

- Table 1: Well Construction and Historical Groundwater Elevation Summary
- Table 2: Groundwater Laboratory Analytical Result Summary
- Table 3: Site Specific Target Level Summary

### **Figures**

- Figure 1: Topographic Map
- Figure 2: Site Facility Base Map
- Figure 3 Groundwater Chemicals of Concern
- Figure 4 Groundwater Elevation Map
- Appendix A Purge Water Disposal Manifest
- Appendix B Groundwater Sampling Data Sheets
- Appendix C Laboratory Data Reports, Chain of Custodies and Field Data Information Sheets
- Appendix D Data Verification Checklist



### 1.0 Facility Information

The subject property is located in a primarily commercial area of Columbia, South Carolina (Figure 1). The subject sites, operating as Handy Pantry #65/University Mart and former Cloud's Chevron, is bordered by light commercial properties in all directions. A site plan depicting pertinent features of the subject property is provided as Figure 2.

### 1.1 Project Information Summary:

#### 1.2.1 Site Address

Handy Pantry #65 / University Mart / Clouds Chevron 2367 Taylor Street Columbia, South Carolina

#### 1.2.2 Property Owner Information

Mr. Mahesh Patel 2367 Taylor Street Columbia, South Carolina

Mr. Andrew Diggins 1600 Block Two Notch Road Columbia, South Carolina

#### 1.2.3 Contractor Information

Crawford Environmental Services 15 Church Avenue, SW Roanoke, Virginia 24011 1 (540) 343-6256 Contractor Number: UCC-0388

#### 1.2.4 Laboratory Information

Access Analytical, Inc. (AA) 7478 Carlisle Street Irmo, SC 29063 1 (803) 781-4243 SC Certification: 32575001 Analytical Environmental Services Inc. (AES) 3785 Presidential Pkwy.
Atlanta, GA 30340
1 (770) 457-8177
SC Certification: 98016003



#### 2.0 Corrective Action Activities

Corrective Action activities at the facility for this phase of work included the following:

- -Regular O&M of the Air Sparge / Soil Vapor Extraction Systems.
- -Bi-Annual Sampling Event

### 2.1 Water Sample Collection

A comprehensive groundwater sampling event, including; recording equilibrated static water levels, product thicknesses, and the collection of chemical samples was completed by CES personnel on November 10/11/12/13, 2014, CES personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase product measurements. Samples for the shallow wells were collected utilizing disposable polyethylene bailers. Shallow wells that exhibited groundwater above the screened bracket were purged of at least three well volumes or purged till dry before sample collection. Deep and intermediate wells exhibiting groundwater above the screened bracket were purged utilizing submersible pumps with dedicated tubing. For sample collection, disposable polyethylene bailers were lowered slowly to the top of the water column (after purging in some cases) allowed to fill one volume, then removed. Disposal records for the 105-gallons of purge water generated are included as Appendix A. Groundwater was then transferred to the appropriate sampling containers and was then placed in coolers, maintaining 4°C, and delivered to an independent laboratory. Groundwater chemical samples were submitted to Access Analytical, Inc., {SC Certification: 32575001} for analysis.

#### 2.1.1 Groundwater Sampling

Equilibrated static water levels and free-product thicknesses were recorded for monitoring MW-2, MW-3, MW-4, MW-5AR, MW-6, MW-7, MW-8, MW-9, MW-11, MW-12, MW-13, MW-16, MW-17, MW-18, MW-19, MW-20, MW-22, MW-23, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31, MW-32, MW-33, MW-34, MW-35, MW-36, MW-37, MW-38, MW-39, MW-40, MW-41, MW-42, MW-43, MW-44, MW-45, MW-46, MW-51, MW-53, MW-59, MW-62, MW-67, MW-70, PWR-1, DW-1, DW-2, DW-3, DW-4, DW-5, DW-6, DW-7 and DW-9 Samples were collected by CES personnel (B. Ewing / M. Price). Groundwater sampling data sheets are included as Appendix B.



During the referenced sampling event, CES was unable to access monitoring wells MW-48, MW-49, MW-50, MW-54, MW-55, MW-60, MW-63 and MW-65. Monitoring wells MW-10 and MW-15 maintained free phase petroleum and were not sampled. Monitoring wells MW-1 and MW-5 did not maintain sufficient water columns to collect groundwater samples. CES also utilized a metal detector to locate the wells, however, the overgrown site conditions did not permit the location of the aforementioned monitoring wells.

CES sampled the monitoring wells, as part of the November, 11/12/13, sampling events, for the following chemical analyses: Benzene/Toluene/Ethylbenzene/Xylenes (BTEX), naphthalene, Methyl Tert-Butyl Ether (MTBE), Tert-Amyl Methyl Ether (TAME), Tert-Butyl Alcohol (TBA), and Tert-Amyl Alcohol (TAA).

During the sampling event CES collected duplicate samples of MW-2, MW-25, and MW-MW-30 on November 11, 12, and 13, 2014, respectively. Review of the duplicate samples collected from aforementioned monitoring well samples did not yield significant data gaps.

In addition to duplicate samples, CES also collected field blank samples at the conclusion of the sample events on November 11, 12, and 13, 2014. The samples were collected at the conclusion of the day to be representative of all samples that were collected during that day.

Table 2 presents the laboratory data for the submitted groundwater samples collected as part of this assessment. The groundwater isoconcentration maps are included as Figure 3. The groundwater elevation map is included as Figure 4.

#### 3.0 Summary

During the corrective action activities performed at the subject property, CES conducted a comprehensive groundwater monitoring event, in an effort to determine the effectiveness of the current corrective action plan. The qualitative and quantitative data collected from recent assessment activities indicates the following regarding current site conditions;

- 1. An SSTL reduction value of 65.17% has been calculated for the monitoring wells that were sampled during this sampling event.
- 2. Free-phase petroleum was observed at monitoring wells MW-10 and MW-15.
- 3. Based on the results of the previous sampling events, CES is scheduled to install injection wells proximal to MW-10 and MW-15 to perform limited surfactant injection / extraction events. CES estimates well installation will begin in early March 2015 with injections following as soon as the permit to operate is received.



### **Tables**

Table 1: Summary of Groundwater Elevation Data Table 2: Summary of Groundwater Analytical Data Table 3: Site Specific Target Levels Summary



Facility Name:	Handy F	07584 / 07777 / 12352								
Address:	236			lumbia, South Ca truction and F			Project Nu Elevation		7.0	547
Maita 10/-11	Well Depth	Scre	ened	Top of Casing	Date	Depth to	Depth to	Product	Product	Groundwate
Monitor Well	(ft)	Inte	erval	(ft)	Measured	Product (ft)	Water (ft)		Elevation (ft)	Elevation (ft
MW-1	27	17	27	93.89	4/2/2014	NA	DRY	NA	NA	DRY
		1			11/4/2014 4/2/2014	NA NA	DRY 21.12	NA NA	NA NA	DRY 73.58
MW-2	30	20	30	94.70	11/4/2014	NA NA	23.03	NA NA	NA NA	71.67
5.00A/ O	00	40	00	04.45	4/2/2014	NA	21.40	NA	NA	73.05
MW-3	29	19	29	94.45	11/12/2014	NA	23.16	NA	NA	71.29
MW-4	28	18	28	94.85	4/2/2014	NA	21.31	NA	NA	73.54
					11/11/2014 4/2/2014	NA NA	21.76 DRY	NA NA	NA NA	73.09 DRY
MW-5	26	16	26	95.26	11/11/2014	NA NA	DRY	NA NA	NA NA	DRY
N 40 A / C	20	-00	20	04.00	4/3/2014	NA NA	22.61	NA NA	NA NA	72.35
MW-6	30	20	30	94.96	11/11/2014	NA	23.98	NA	NA	70.98
MW-7	30	20	30	95.93	4/3/2014	NA	23.02	NA	NA	72.91
		1			11/11/2014 4/3/2014	NA NA	24.12 19.95	NA NA	NA NA	71.81 74.84
MW-8	28	18.5	28	94.79	11/11/2014	NA NA	21.43	NA NA	NA NA	73.36
M/M/ O	20	20	20	02.20	4/2/2014	NA	20.60	NA NA	NA NA	71.70
MW-9	30	20	30	92.30	11/11/2014	NA	21.69	NA	NA	70.61
MW-10	28	18	28	85.98	4/1/2014	NA	17.69	NA	NA	68.29
			A	000000000000000000000000000000000000000	11/11/2014 4/2/2014	Interface F NA	robe Failure 18.61	e - 1.25-Feet of I	Product Observ	ed in Bailer 69.85
MW-11	30	Unk	nown	88.46	11/11/2014	NA NA	19.38	NA NA	NA NA	69.08
NAV 40	04.05	Onk	HOWH	70.00	4/2/2014	NA NA	4.20	NA	NA	68.60
MW-12	24.65	Unk	nown	72.80	11/11/2014	NA	4.63	NA	NA	68.17
MW-13	30.1			80.44	4/1/2014	NA	11.13	NA	NA	69.31
	177543	Unk	nown		11/11/2014 4/1/2014	NA 16.60	12.15 16.00	0.60	NA 69.84	68.29 70.88*
MW-15	25	15	25	86.44	11/11/2014	100000000	V 20 11 10 11 11 11	e - 0.25-Feet of	7 2501(0)-210	1 23.50
MW-16	25	15	25	88.19	4/2/2014	NA	17.54	NA	NA	70.65
IVIVV-16	25	15	25	88.19	11/12/2014	NA	18.98	NA	NA	69.21
MW-17	22	20	30	92.45	4/2/2014	NA	22.00	NA	NA	70.45
******	15262	1989974	5355	5-53-52-96-3	11/12/2014 4/2/2014	NA NA	23.45 23.68	NA NA	NA NA	69.00 71.13
MW-18	30	20	30	94.81	11/12/2014	NA NA	25.08	NA NA	NA NA	69.73
MW-19	30	20	30	93.96	4/3/2014	NA	23.33	NA	NA	70.63
10100-15	30	20	50	33.30	11/13/2014	NA	24.56	NA	NA	69.40
MW-20	25	15	25	94.12	4/3/2014 11/13/2014	NA NA	21.95 23.28	NA NA	NA NA	72.17 70.84
	100000		747000	200000000000	4/3/2014	NA NA	21.11	NA NA	NA NA	73.14
MW-22	30	20	30	94.25	11/11/2014	NA NA	22.68	NA	NA	71.57
MW-23	30	20	30	94.43	4/3/2014	NA	23.65	NA	NA	70.78
				0 1.10	11/13/2014	NA	24.98	NA	NA	69.45
MW-25	25.6	Unk	nown	93.09	4/1/2014 11/10/2014	NA NA	19.71 21.60	NA NA	NA NA	73.38 71.49
			D80789-0000000		4/3/2014	NA NA	20.01	NA NA	NA NA	75.95
MW-26	30	Unk	nown	95.96	11/11/2014	NA	22.95	NA	NA	73.01
MW-27	30	15	30	91.40	4/1/2014	NA	14.65	NA	NA	76.75
		• • •			11/13/2014	NA NA	18.85	NA NA	NA NA	72.55
MW-28	30	15	30	91.46	4/1/2014 11/13/2014	NA NA	15.63 19.75	NA NA	NA NA	75.83 71.71
A 41/4 / CC	00	45		04.00	4/1/2014	NA NA	15.51	NA NA	NA NA	75.58
MW-29	30	15	30	91.09	11/13/2014	NA	19.92	NA	NA	71.17
MW-30	30	15	30	92.77	4/1/2014	NA	20.50	NA	NA	72.27
		1	<u> </u>		11/10/2014 4/2/2014	NA NA	22.90	NA NA	NA NA	69.87
MW-31	35	20	35	95.20	11/12/2014	NA NA	24.41 26.36	NA NA	NA NA	70.79 68.84
MANA/ 00	20	45	20	02.07	4/2/2014	NA	21.28	NA NA	NA NA	71.59
MW-32	30	15	30	92.87	11/12/2014	NA	23.16	NA	NA	69.71
MW-33	35	20	35	93.84	4/1/2014	NA	23.18	NA	NA	70.66
					11/12/2014	NA NA	24.65	NA NA	NA NA	69.19
MW-34	35	20	35	94.77	4/1/2014 11/12/2014	NA NA	24.06 25.49	NA NA	NA NA	70.71 69.28

Facility Name:				sity Mart & Clouds			JST Permit I	D:	07584 / 07777 / 12352		
Address:	236			lumbia, South Ca			Project Nu		7.0547		
*	Well Depth		II Cons	truction and H Top of Casing	listorical Gr Date	Oundwater Depth to	Elevation Depth to	Summary	Product	Groundwater	
Monitor Well	(ft)	10-10-01	erval	(ft)	Measured	Product (ft)	Water (ft)	Thickness (ft)	Elevation (ft)	Elevation (ft)	
MW-35	35	20	35	93.71	4/1/2014	NA	21.35	NA	NA	72.36	
					11/12/2014 4/1/2014	NA NA	24.66 22.84	NA NA	NA NA	69.05 71.05	
MW-36	35	20	35	93.89	11/12/2014	NA NA	24.72	NA NA	INA	69.17	
MW-37	35	20	35	93.78	4/1/2014	NA	22.24	NA	NA	71.54	
200000 2000 200000 2000	5,075	758354 108454	550000 750000		11/12/2014 4/1/2014	NA NA	24.87 24.61	NA NA	NA NA	68.91 70.92	
MW-38	35	20	35	95.53	11/12/2014	NA NA	26.17	NA NA	NA NA	69.36	
MW-39	35	20	35	96.19	4/2/2014	NA NA	25.59	NA NA	NA NA	70.60	
		-			11/12/2014 4/2/2014	NA NA	27.36 25.29	NA NA	NA NA	68.83 70.40	
MW-40	35	20	35	95.69	11/12/2014	NA	27.01	NA	NA	68.68	
MW-41	35	20	35	94.85	4/1/2014 11/11/2014	NA NA	24.70 26.99	NA NA	NA NA	70.15 67.86	
1817.46	6.5		0.5	05.04	4/1/2014	NA NA	25.35	NA NA	NA NA	70.46	
MW-42	35	20	35	95.81	11/12/2014	NA	27.22	NA	NA	68.59	
MW-43	40	20	40	95.15	4/2/2014 11/11/2014	NA NA	24.00 25.61	NA NA	NA NA	71.15 69.54	
NAV 44	24	40	31	04.57	4/1/2014	NA NA	24.42	NA NA	NA NA	70.15	
MW-44	31	16	31	94.57	11/11/2014	NA	24.23	NA	NA	70.34	
MW-45	30	15	30	92.51	4/1/2014 11/11/2014	NA NA	21.22 22.63	NA NA	NA NA	71.29 69.88	
MW-46	35	20	35	94.50	4/1/2014	NA	23.55	NA NA	NA	70.95	
IVIVV-46	ან	20	35	94.50	11/11/2014	NA	24.95	NA	NA	69.55	
MW-48	30	15	30	89.95	4/2/2014 11/11/2014	NA	19.70 Unabl	NA e to Access - Lo	NA ocked Gate	70.25	
MW-49	30	15	30	88.18	4/2/2014			e to Access - Lo			
10100-40	30	10	- 50	00.10	11/11/2014		Onabi	e to Access - Lo	ocked Gate		
MW-50	30	15	30	84.09	4/2/2014 11/11/2014		Unabl	e to Access - Lo	cked Gate		
MW-51	35	20	35	93.91	4/2/2014	NA	21.23	NA	NA	72.68	
2	19475		-		11/11/2014 4/3/2014	NA NA	24.29 9.60	NA NA	NA NA	69.62 70.00	
MW-53	20	5	20	79.60	11/11/2014	NA	11.02	NA NA	NA NA	68.58	
MW-54	20	5	20	77.58	4/1/2014	NA	11.31	NA .	NA F: 11	66.27	
					11/11/2014 4/3/2014	NA	2.51	to Locate - Ove	NA	68.71	
MW-55	14	4	14	71.22	11/11/2014			to Locate - Ove		L'O Control Control Control	
MW-56	20	5	20	76.39	4/3/2014 11/11/2014	NA	5.12	NA to Locate - Ove	NA rarova Field	71.27	
MM/ 50	40		40	70.07	4/2/2014		Onable				
MW-58	19	4	19	76.37	11/11/2014			Abandoned			
MW-59	17	2	17	68.02	4/2/2014 11/11/2014	NA NA	6.05 6.69	NA NA	NA NA	61.97 61.33	
MW-60	14	4	14	67.94	4/2/2014	IN/A	0.00	Unable to Loc		01.00	
10100-00	1.7		17	07.54	11/11/2014	NIA	1 22 22		an and a second	71.72	
MW-62	35	20	35	94.05	4/1/2014 11/12/2014	NA NA	22.32 24.75	NA NA	NA NA	71.73 69.30	
MW-63	35	20	35	94.65	4/2/2014	NA	23.07	NA	NA	71.58	
			- 55	0.1.00	11/12/2015 4/2/2014			Unable to Loc	ate		
MW-65	35	20	35	94.04	11/11/2014		Unab	le to Locate - Pa	aved over		
MW-67	35	20	35	96.10	4/1/2014	NA	24.44	NA	NA	71.66	
Controller Econoli	600000 600000	CORNERS CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTRO	05050	200-10400 200-1040	11/12/2014 4/2/2014	NA NA	27.28 24.70	NA NA	NA NA	68.82 70.79	
MW-70	35	20	35	95.49	11/11/2014	NA	26.22	NA	NA	69.27	
MW-5AR	28	18	28	94.18	4/1/2014	NA NA	21.24	NA NA	NA NA	72.94	
DW :-					11/13/2014 4/3/2014	NA NA	22.64 23.11	NA NA	NA NA	71.54 70.64	
PW-1R	50	45	50	93.75	11/13/2014	NA	23.92	NA	NA	69.83	
DW-1	70	65	70	94.66	4/2/2014	NA NA	45.00	NA NA	NA NA	49.66	
DIA: 0	7-	70		04.50	11/10/2014 4/2/2014	NA NA	45.42 44.34	NA NA	NA NA	49.24 49.68	
DW-2	75	70	75	94.02	11/11/2014	NA	44.88	NA	NA	49.14	

					Table 1					
Facility Name:	Handy P	antry #65	/ Univer	sity Mart & Clouds	Chevron	L	JST Permit I	D:	07584 / 07	777 / 12352
Address:	2367	Taylor :	Street Co	lumbia, South Ca	rolina	CES	Project Nu	mber:	7.0	547
		Wel	I Const	ruction and H	istorical Gr	oundwater	Elevation	Summary		
Monitor Well	Well Depth		ened	Top of Casing	Date	Depth to	Depth to	Product	Product	Groundwater
Monitor Well	(ft)	Inte	erval	(ft)	Measured	Product (ft)	Water (ft)	Thickness (ft)	Elevation (ft)	Elevation (ft)
DW-3	52	47	52	93.75	4/3/2014	NA	24.40	NA	NA	69.35
DVV-3	52	47	52	93.75	11/13/2014	NA	24.42	NA	NA	69.33
DW-4	110	105	110	93.79	4/3/2014	NA	44.60	NA	NA	49.19
DVV-4	110	105	1	93.79	11/13/2014	NA	3.45	NA	NA	90.34
DW-5	70	65	70	93.74	4/1/2014	NA	44.22	NA	NA	49.52
DVV-5	70	65	7	93.74	11/12/2014	NA	44.75	NA	NA	48.99
DW-6	70	65	70	95.90	4/1/2014	NA	45.86	NA	NA	50.04
DVV-6	70	65	7	95.90	11/12/2014	NA	46.64	NA	NA	49.26
DW-7	55	50	55	72.79	4/3/2014	NA	24.00	NA	NA	48.79
DVV-7	55	50	5	12.19	11/11/2014	NA	24.75	NA	NA	48.04
DW-8	55	50	55	68.63	4/2/2014			Abandoned		<i>'</i>
DVV-6	55	50	55	08.03	11/11/2014			Abandoned		
DW-9	65	60	65	76.47	4/2/2014	NA	25.00	NA	NA	51.47
DVV-9	05	00	5	70.47	11/11/2014	NA	24.44	NA	NA	52.03

INA = Information not available

^{* =} GW Elevation Corrected for The Presence of Free Product n/a = not applicable



acility Name: Address:	Handy Pantry # 2367 Taylor Str	reet Columb	ia, South Ca		ST Project No. nary	0758	07584 / 07777 / 12352 7.0547			
Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
MW-1	4/2/2014 11/11/2014		<u> </u>			Dry	*	-		
	4/2/2014	170	41	200	960	320	150	230	1	6.8
MW-2	11/4/2014	140	300	220	1300	410	160	210	<10	<10
MMA/ 2	4/2/2014	6900	18000	1200	16000	1800	600	980	560.000	340
MW-3	11/12/2014	4600	11000	620	8700	1300	280	<5000	310.000	<500
MW-4	4/2/2014	<1	<1	<1	<1	3.5	<5	<100	10.000	<10
10100-4	11/11/2014	<1	<1	<1	<1	1.6	<5	<100	<10	<100
MW-5	4/2/2014					Dry			215	
10100-5	11/11/2014									
MW-6	4/3/2014	2.6	<1	2.4	10	2.5	4.2	<100	<10	<10
10100-0	11/11/2014	<1	<1	<1	<1	0.8	<5	<100	<10	<10
MW-7	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
14144555	11/11/2014	0.71	<1	<1	<1	<1	<5	<100	<10	<10
MW-8	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
MW-9	4/2/2014	830	7500	1700	14000	50	590	1700	5000	500
	11/11/2014	380	11000	1900	13000	5	650	1100	<10	<10
MW-10	4/1/2014	1800	5700	350	8500	50	690	5000	500.000	500
	11/11/2014				1.25-Fee	t of Free Produ				
MW-11	4/2/2014	2.3	4.1	11	4.1	<1	4.4	120	<10	<10
	11/11/2014	0.53	<1	<1	<1	<1	<5	80	<10	58
MW-12	4/2/2014	2.9	0.67	1.6	0.91	18	4.7	630	9.300	<10
10100-12	11/11/2014	990	19	910	140	21	180	3600	14.000	<10
MW-13	4/1/2014	0.62	8.8	4.5	86	<1	31	10	<10	<10
WW-15	11/11/2014	<1	<1	<	<1	<1	<5	<100	<10	<10
MW-15	4/1/2014				0.60-Fee	t of Free Produ	uct			
10100-13	11/11/2014				0.25-Fee	t of Free Produ	uct			
MW-16	4/2/2014	<1	<1	<1	<1	<1	3.4	<100	<10	<10
10100-10	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
MW-17	4/2/2014	280	5100	450	13000	50	850	2200	500.000	500
IVIVV-17	11/12/2014	32	3000	450	8300	<10	690	270	<100	<10
MW-18	4/2/2014	1900	7200	630	8300	340	370	4900	70.000	500
10100-10	11/12/2014	3100	11000	560	8700	510	290	12000	<1000	<100
MW-19	4/3/2014	300	1800	490	12000	50	900	610	500.000	500
WW-15	11/13/2014	1400	2800	1600	24000	<50	1400	1300	<50	<50
MW-20	4/3/2014	1800	11000	460	11000	50	960	3100	65.000	500
10100-20	11/13/2014	1400	12000	500	14000	120	1100	<10000	<1000	<100
MW-22	4/3/2014	5700	12000	880	23000	50	990	3600	500.000	500
10100-22	11/11/2014	6300	23000	700	21000	<20	1200	9600	<20	<14
MW-23	4/3/2014	4200	16000	880	19000	120	1100	5900	500.000	500
10100-25	11/13/2014	890	3600	450	16000	<50	1200	1500	<50	<34
MW-25	4/1/2014	5.5	200	320	4400	<1	1300	170	<10	<10
20	11/10/2014	38	140	200	2600	1.9	490	2800	<10	<10
MW-26	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
11111.20	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
MW-27	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
300 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100 July 100	11/13/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
MW-28	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
	11/13/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
MW-29	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
ida o o o o o o o o o o o o o o o o o o o	11/13/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
MW-30	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
	11/10/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
MW-31	4/2/2014	0.9	<1	<1	<1	2.7	<5	59	<10	<10
om 4 serve 5567	11/12/2014	30	9.8	310	9.3	4.1	160	460	<10	<10
MW-32	4/2/2014	0.94	<1	1.9	2.4	<1	6.6	170	<10	<10
man conservation of the	11/12/2014	4	13	72	10	<1	45	<100	<10	<10
MW-33	4/1/2014	560	5200	2500	6900	50	670	4100	500.000	500
- Anne Compressor (TOTAL)	11/12/2014	130	410	210	550	1.2	71	1000	<10	<10
MW-34	4/1/2014	<1	<1	<1	<1	<1	<5	39	<10	<10
	11/12/2014	<1	<1	<1	<1	<1	<5	39	<10	<10
	4/1/2014	3700	4300	2000	6200	160	550	5600	54.000	500
MW-35	11/12/2014	6000	7200	2800	7400	330	700	4700	76.000	<10

acility Name: Address:	Handy Pantry ‡ 2367 Taylor Str	reet Columbi	a, South Ca	louds Chevron rolina	Table 2 ry Analytical R	Crawford	IST Project No. n <b>ary</b>	0758	4 / 07777 / 1 7.0547	2352			
Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TB			
MW-36	4/1/2014	5.1	<1	38	<1	<1	55	96	<10	<1			
11111 00	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<1			
MW-37	4/1/2014	<1	<1	<1	<1	<1	3.7	<100	<10	<1			
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<1			
MW-38	4/1/2014 11/12/2014	<1 <1	<1 <1	<1 <1	<1 <1	<1 <1	<5 <5	<100 <100	<10 <10	<1 <1			
	4/2/2014	<1	3.2	2.2	14	<1	3.3	<100	<10	<1			
MW-39	11/12/2014	11	1500	1000	3700	<1	340	220	<10	<1			
2200 22	4/2/2014	5.8	14	2	580	<1	24	<100	<10	<1			
MW-40	11/12/2014	140	970	300	2900	12	150	600	<10	<1			
NAV: 44	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<1			
MW-41	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<1			
MM 42	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<1			
MW-42	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<1			
MW-43	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<1			
WIVY -45	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<1			
MW-44	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<1			
cataace#6#5.	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<1			
MW-45	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<1			
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<1			
MW-46	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<1			
	11/11/2014	<1	<1	<1	<1	<1	<5 <5	<100	<10	<1			
MW-48	4/2/2014 11/11/2014	<1	<1	<1	<1	<1 ccess - Locked	<5	<100	<10	<1			
		<u> </u>			Offable to At	ccess - Locked	Gale						
MW-49	4/2/2014 11/11/2014	1			Unable to A	ccess - Locked	d Gate						
	4/2/2014	<b> </b>											
MW-50	11/11/2014	1			Unable to A	ccess - Locked	l Gate						
AMA/ 51	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<1			
MW-51	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<1			
MW-53	4/3/2014	<1	<1	<1	<1	<1	4.1	<100	<10	<1			
14144-22	11/11/2014	<1	<1	<1	<1	<1	4.1	<100	<10	<1			
MW-54	4/1/2014	<1	<1	<1	<1	9.6	<5	<100	6.700	<1			
	11/11/2014		7.9%			ble to Locate	1 1212		T 2 12 -				
MW-55	4/3/2014	10	1	3.5	<1	24	3.9	98	6.400	<1			
	11/11/2014					ble to Locate		F.0	-40				
MW-56	4/3/2014	<1	<1	<1	<1	<1	<5	50	<10	<1			
	11/11/2014	<u> </u>			Unai	ble to Locate							
MW-58	4/2/2014 11/11/2014				Al	bandoned							
	4/2/2014	28	2.8	300	6.4	130	45	2600	42.000	16			
MW-59	11/11/2014	81	3.6	730	14	91	96	4500	27.000	<1			
	4/2/2014		5.0				- 55	1,500	2000	- 1			
MW-60	11/11/2014	1			Unal	ble to Locate							
MAY CO	4/1/2014	0.86	<1	<1	<1	3	3.3	260	<10	<1			
MW-62	11/12/2014	51	<1	<1	0.93	2.6	65	730	<10	<1			
M/M/ 63	4/2/2014	<1	<1	<1	<1	<1	5	120	<10	<1			
MW-63	11/12/2014				Unal	ble to Locate				,,,			
MW-65	4/2/2014					.ocate - Paved							
14144-00	11/11/2014					ocate - Paved							
MW-67	4/1/2014	<1	<1	<1	<1	<1	5	<100	<10	<1			
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<1			
MW-70	4/2/2014	<1	<1	<1	<1	<1	5	<100	<10	<1			
	11/11/2014	<1	<1	<1	<1	<1	1.5	<100	<10	<1			
MW-5AR	4/1/2014	12000	13000	2400	13000	70	1000	<5000	160.000	<50			
UU 00000000000000000000000000000000000	11/13/2014	830	180	98	670	13	130	<100	13.000	<1			
PW-1R	4/3/2014	460 950	3400	320	9200	<50 <50	<250	710 <5000	<500 <500	<50 <50			
ge de gagante en mari	11/13/2014	850 0.45	6900	580 1.7	18000	<50	1300	<5000 <100	<500 <10	<50 <1			
DW-1	4/2/2014 11/10/2014	0.45 <1	1.2 <1	1.7 <1	7.2 <1	<1.0 <1	<5.0 <5	<100	<10	<1			
	4/2/2014	<1.0	<1.0	<1.0	<1.0	7.1	4.1	<100	<10	<1			
			<1	<1.0	<1.0	10	4.1 <5	<100	<10	<1			
DW-2	11/11/2014	< 1											
DW-2 DW-3	11/11/2014 4/3/2014	<1 9800	22000	3700	17000	990	780	10000	190.000	<50			

				3	Table 2					
Facility Name: Address:	Handy Pantry # 2367 Taylor Str	reet Columbi	a, South Ca	arolina	y Analytical Re	Crawford	JST Project No. <b>nary</b>	07584 / 07777 / 12352 7.0547		
Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
DW-4	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
DVV-4	11/13/2014	<1	1	<1	<1	<1	<5	<100	<10	<100
DW F	4/1/2014	3300	68	37	1000	940	81	4300	83.000	<100
DW-5	11/12/2014	6700	380	240	3100	1400	190	5300	110.000	<100
DW-6	4/1/2014	8.5	1.2	1.6	7.2	3	5	<100	<10	<100
DW-6	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
DW 7	4/3/2014	0.52	0.46	<1.0	1.4	2.6	4.2	<100	<10	<100
DW-7	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
DW-8	4/2/2014		45	*	A I-					
DVV-8	11/11/2014				Ab	andoned				
DW 0	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
DW-9	11/11/2014	<1	2.8	<1	<1	<1	<5	<100	<10	<100
CW/ 4	4/2/2014	180	8.4	30	53	42	6.5	350	9.500	100
SW-1	11/12/2014				Unable to Acce	ss - Overgrov	vn Brush			

BDL= Below Detectable Limit RBSL= Risk Based Screening Levels NE= Not Established



1,2 DCA = 1,2 Dichloroethane
J = Estimated value detected below reporting limit

	Facility Name: Address:			dy Pantry #65 / U 2367 Taylor Stree <b>Si</b> t	et Columbia,		1	ary			JST Project No.	07584 / 07777 / 12352 7.0547
Well ID:	14	D	Tabaaaa	E4b.db.ssess	Xylenes	MTDE	Nambah	TA A	TAME	TDA	T-4-1	
well iD:	Item	Benzene	Toluene	Ethylbenzene	(Total)	MTBE	Naphth	TAA	TAME	TBA	Total	
	Initial	140.0	280.0	56.0	460.0	380.0	54.0	200.0	9.2	140.0	1719.2	
	SSTL	77.0	280.0	56.0	460.0	380.0	54.0	200.0	9.2	140.0	1656.2	-
MW-2	Initial > SSTL	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	-1857.14%
	Subsequent	140.0	300.0	220.0	1300.0	410.0	160.0	210.0	1.0	6.8	2747.8	
	SSTL Subsequent > SSTL	77.0 63.0	280.0 20.0	56.0	460.0 840.0	380.0 30.0	54.0	200.0	9.2	140.0	1656.2 1233.0	
	SATISFACE CONTRACTOR SATURDS			164.0			106.0	10.0		0.0		
	Initial	3000.0	7400.0	260.0	4500.0	3300.0	260.0	2000.0	340.0	1300.0	22360.0	
	SSTL	111.0	7400.0	260.0	4500.0	1976.0	108.0	2000.0	340.0	1300.0	17995.0	
MW-3	Initial > SSTL	2889.0	0.0	0.0	0.0	1324.0	152.0	0.0	0.0	0.0	4365.0	-194%
	Subsequent	4600.0	11000.0	620.0	8700.0	1300.0	280.0	480.0	310.0	340.0	27630.0	20 200
	SSTL	111.0	7400.0	260.0	4500.0	1976.0	108.0	2000.0	340.0	1300.0	17995.0	
	Subsequent > SSTL	4489.0	3600.0	360.0	4200.0	0.0	172.0	0.0	0.0	0.0	12821.0	
	Initial	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	4
	SSTL	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	1
MW-5	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Dry
A	Subsequent					Dry						1517
	SSTL	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	
	Subsequent > SSTL					Dry						
	Initial	4100.0	27000.0	2500.0	19000.0	150.0	960.0	1600.0	2000.0	20000.0	77310.0	
	SSTL	35.0	7134.0	2500.0	19000.0	150.0	68.0	809.0	270.0	15628.0	45594.0	
MW-9	Initial > SSTL	4065.0	19866.0	0.0	0.0	0.0	892.0	791.0	1730.0	4372.0	31716.0	84%
	Subsequent	380.0	11000.0	1900.0	13000.0	5.0	650.0	1100.0	1.0	6.8	28042.8	3170
	SSTL	35.0	7134.0	2500.0	19000.0	150.0	68.0	809.0	270.0	15628.0	45594.0	
	Subsequent > SSTL	345.0	3866.0	0.0	0.0	0.0	582.0	291.0	0.0	0.0	5084.0	
	Initial	740.0	7800.0	2500.0	15000.0	2500.0	950.0	50000.0	5000.0	50000.0	134490.0	
	SSTL	24.0	7800.0	2500.0	15000.0	294.0	53.0	793.0	707.0	11042.0	38213.0	
MW-10	Initial > SSTL	716.0	0.0	0.0	0.0	2206.0	897.0	49207.0	4293.0	38958.0	96277.0	Free Product
	Subsequent											
	SSTL	24.0	7800.0	2500.0	15000.0	294.0	53.0	793.0	707.0	11042.0	38213.0	
	Subsequent > SSTL											
	Initial	1.7	5.0	11.0	5.0	5.6	4.7	370.0	1.5	19.0	423.5	
	SSTL	1.7	5.0	11.0	5.0	5.6	4.7	370.0	1.5	19.0	423.5	1
MW-12	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	-546850%
	Subsequent	990.0	19.0	910.0	140.0	21.0	180.0	3600.0	14.0	6.8	5880.8	04000070
	SSTL	1.7	5.0	11.0	5.0	5.6	4.7	370.0	1.5	19.0	423.5	1
	Subsequent > SSTL	988.3	14.0	899.0	135.0	15.4	175.3	3230.0	12.5	0.0	5469.5	
	Initial					Free Prod						
	SSTL	16.0	3198.0	3700.0	21680.0	730.0	45.0	492.0	199.0	5838.0	35898.0	]
MW-15	Initial > SSTL											Free Product
17177-13	Subsequent	Free Product										
	SSTL	16.0	3198.0	3700.0	21680.0	730.0	45.0	492.0	199.0	5838.0	35898.0	
	Subsequent > SSTL										0.0	

	Facility Name: Address:			ly Pantry #65 / U 2367 Taylor Stree	et Columbia		а	anv			JST I Project No.	07584 / 07777 / 12352 7.0547
				- 31	Xylenes	c ranger Lev	ei Suillill	ary			_	
Well ID:	Item	Benzene	Toluene	Ethylbenzene	(Total)	MTBE	Naphth	TAA	TAME	TBA	Total	
	Initial	1400.0	26000.0	2500.0	23000.0	1000.0	1000.0	9400.0	2000.0	20000.0	86300.0	
	SSTL	32.0	6631.0	2500.0	21680.0	1000.0	66.0	773.0	263.0	14286.0	47231.0	
MW-17	Initial > SSTL	1368.0	19369.0	0.0	1320.0	0.0	934.0	8627.0	1737.0	5714.0	39069.0	98%
IVIVV-17	Subsequent	32.0	3000.0	450.0	8300.0	4.2	690.0	270.0	10.0	68.0	12824.2	98%
	SSTL	32.0	6631.0	2500.0	21680.0	1000.0	66.0	773.0	263.0	14286.0	47231.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	624.0	0.0	0.0	0.0	624.0	
	Initial	1900.0	7200.0	630.0	8300.0	340.0	370.0	4900.0	70.0	5000.0	28710.0	
	SSTL	40.0	19326.0	3700.0	21680.0	4260.0	348.0	938.0	4989.0	54462.0	109743.0	
MW-18	Initial > SSTL	1860.0	0.0	0.0	0.0	0.0	22.0	3962.0	0.0	0.0	5844.0	-142%
IVIVV-18	Subsequent	3100.0	11000.0	560.0	8700.0	510.0	290.0	12000.0	100.0	680.0	36940.0	-142%
	SSTL	40.0	19326.0	3700.0	21680.0	4260.0	348.0	938.0	4989.0	54462.0	109743.0	
	Subsequent > SSTL	3060.0	0.0	0.0	0.0	0.0	0.0	11062.0	0.0	0.0	14122.0	
	Initial	300.0	1800.0	490.0	12000.0	50.0	900.0	610.0	500.0	5000.0	21650.0	
	SSTL	54.0	11081.0	3700.0	21680.0	16080.0	86.0	1065.0	320.0	26814.0	80880.0	
MW-19	Initial > SSTL	246.0	0.0	0.0	0.0	0.0	814.0	0.0	180.0	0.0	1240.0	-115%
WW-19	Subsequent	1400.0	28000.0	1600.0	24000.0	21.0	1400.0	1300.0	50.0	340.0	58111.0	-115%
	SSTL	54.0	11081.0	3700.0	21680.0	16080.0	86.0	1065.0	320.0	26814.0	80880.0	
	Subsequent > SSTL	1346.0	0.0	0.0	0.0	0.0	1314.0	0.0	0.0	0.0	2660.0	
	Initial	412.0	2930.0	728.0	8820.0	88.7	817.0	2850.0	200.0	2000.0	18845.7	
	SSTL	83.0	2930.0	728.0	8820.0	88.7	108.0	1403.0	200.0	2000.0	16360.7	
MW-20	Initial > SSTL	329.0	0.0	0.0	0.0	0.0	709.0	1447.0	0.0	0.0	2485.0	-566%
10100-20	Subsequent	1400.0	12000.0	500.0	14000.0	120.0	1100.0	950.0	100.0	680.0	30850.0	-300%
	SSTL	83.0	2930.0	728.0	8820.0	88.7	108.0	1403.0	200.0	2000.0	16360.7	
	Subsequent > SSTL	1317.0	9070.0	0.0	5180.0	0.0	992.0	0.0	0.0	0.0	16559.0	
	Initial	3300.0	17000.0	2900.0	20000.0	1000.0	640.0	6200.0	130.0	20000.0	71170.0	
	SSTL	90.0	17000.0	2900.0	20000.0	1000.0	112.0	1469.0	130.0	20000.0	62701.0	
MW-22	Initial > SSTL	3210.0	0.0	0.0	0.0	0.0	528.0	4731.0	0.0	0.0	8469.0	-93%
10100-22	Subsequent	6300	23000	700	21000	20	1200	9600	20.000	140	61980.0	-93 /6
	SSTL	90.0	17000.0	2900.0	20000.0	1000.0	112.0	1469.0	130.0	20000.0	62701.0	
	Subsequent > SSTL	6210.0	0.0	0.0	1000.0	0.0	1088.0	8131.0	-110.0	0.0	16319.0	
	Initial	4200.0	16000.0	880.0	19000.0	120.0	1100.0	5900.0	500.0	5000.0	52700.0	
	SSTL	72.0	14880.0	3700.0	21680.0	33368.0	100.0	1279.0	359.0	38475.0	113913.0	
MW-23	Initial > SSTL	4128.0	1120.0	0.0	0.0	0.0	1000.0	4621.0	141.0	0.0	11010.0	81%
10100-23	Subsequent	890.0	3600.0	450.0	16000.0	21.0	1200.0	1500.0	50.0	340.0	24051.0	0170
	SSTL	72.0	14880.0	3700.0	21680.0	33368.0	100.0	1279.0	359.0	38475.0	113913.0	
	Subsequent > SSTL	818.0	0.0	0.0	0.0	0.0	1100.0	221.0	0.0	0.0	2139.0	
	Initial	5000.0	3000.0	1900.0	23000.0	5000.0	5000.0	100000.0	10000.0	100000.0	252900.0	
	SSTL	104.0	3000.0	1900.0	23000.0	5000.0	121.0	1612.0	415.0	60494.0	95646.0	
MW-25	Initial > SSTL	4896.0	0.0	0.0	0.0	0.0	4879.0	98388.0	9585.0	39506.0	157254.0	99%
IVIVV-25	Subsequent	38.0	140.0	200.0	2600.0	1.9	490.0	2800.0	1.0	6.8	6277.7	997o
	SSTL	104.0	3000.0	1900.0	23000.0	5000.0	121.0	1612.0	415.0	60494.0	95646.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	369.0	1188.0	0.0	0.0	1557.0	1

	Facility Name: Address:			dy Pantry #65 / U 2367 Taylor Stre <b>Si</b>	et Columbia te Specifi		а	ary			JST I Project No.	07584 / 07777 / 12352 7.0547
Well ID:	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	
	Initial	57.0	90.0	520.0	250.0	12.0	210.0	510.0	50.0	500.0	2199.0	
	SSTL	51.0	90.0	520.0	250.0	12.0	210.0	510.0	50.0	500.0	2193.0	
	Initial > SSTL	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	
MW-31	Subsequent	30.0	9.8	310.0	9.3	4.1	160.0	460.0	1.0	6.8	991.0	100%
	SSTL	51.0	90.0	520.0	250.0	12.0	210.0	510.0	50.0	500.0	2193.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Initial	520.0	7200.0	1500.0	7200.0	500.0	410.0	3200.0	1000.0	10000.0	31530.0	
	SSTL	53.0	7200.0	1500.0	7200.0	500.0	410.0	1136.0	1000.0	10000.0	28999.0	
	Initial > SSTL	467.0	0.0	0.0	0.0	0.0	0.0	2064.0	0.0	0.0	2531.0	
MW-33	Subsequent	130.0	410.0	210.0	550.0	1.2	71.0	1000.0	1.0	6.8	2380.0	97%
	SSTL	53.0	7200.0	1500.0	7200.0							
	Subsequent > SSTL	77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.0	
	Initial	4400.0	2000.0	1700.0	3500.0	300.0	580.0	5300.0	51.0	5000.0	22831.0	
	SSTL	56.0	2000.0	1700.0	3500.0	300.0	542.0	1181.0	51.0	5000.0	14330.0	
	Initial > SSTL	4344.0	0.0	0.0	0.0	0.0	38.0	4119.0	0.0	0.0	8501.0	
MW-35	Subsequent	6000.0	7200.0	2800.0	7400.0	330.0	700.0	4700.0	76.0	340.0	29546.0	-133%
	SSTL	56.0	2000.0	1700.0	3500.0	300.0	542.0	1181.0	51.0	5000.0	14330.0	
	Subsequent > SSTL	5944.0	5200.0	1100.0	3900.0	0.0	158.0	3519.0	25.0	0.0	19846.0	
	Initial	240.0	34.0	270.0	240.0	11.0	220.0	850.0	50.0	44.0	1959.0	
	SSTL	90.0	34.0	270.0	240.0	11.0	220.0	850.0	50.0	44.0	1809.0	1
	Initial > SSTL	150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.0	4000/
MW-37	Subsequent	0.4	0.4	0.4	0.8	0.4	0.2	9.5	1.0	6.8	19.9	100%
	SSTL	90.0	34.0	270.0	240.0	11.0	220.0	850.0	50.0	44.0	1809.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Initial	13.0	1300.0	460.0	4200.0	250.0	330.0	5000.0	500.0	5000.0	17053.0	
	SSTL	13.0	1300.0	460.0	4200.0	250.0	330.0	1607.0	500.0	5000.0	13660.0	
MAY 20	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	3393.0	0.0	0.0	3393.0	4000/
MW-39	Subsequent	11.0	1500.0	1000.0	3700.0	0.4	340.0	220.0	1.0	6.8	6779.2	100%
	SSTL	13.0	1300.0	460.0	4200.0	250.0	330.0	1607.0	500.0	5000.0	13660.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Initial	290.0	2900.0	650.0	7100.0	500.0	530.0	10000.0	1000.0	10000.0	32970.0	
	SSTL	113.0	2900.0	650.0	7100.0	500.0	530.0	1876.0	1000.0	10000.0	24669.0	
MW-40	Initial > SSTL	177.0	0.0	0.0	0.0	0.0	0.0	8124.0	0.0	0.0	8301.0	100%
10100-40	Subsequent	140.0	970.0	300.0	2900.0	12.0	150.0	600.0	1.0	6.8	5079.8	100%
	SSTL	113.0	2900.0	650.0	7100.0	500.0	530.0	1876.0	1000.0	10000.0	24669.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Initial	260.0	1000.0	1100.0	1000.0	1000.0	420.0	20000.0	2000.0	20000.0	46780.0	
	SSTL	257.0	1000.0	1100.0	1000.0	1000.0	420.0	3234.0	2000.0	20000.0	30011.0	1
BANA/ 44	Initial > SSTL	3.0	0.0	0.0	0.0	0.0	0.0	16766.0	0.0	0.0	16769.0	100%
MW-41	Subsequent	0.4	0.4	0.4	0.4	0.4	0.2	9.5	1.0	6.8	19.5	100%
	SSTL	257.0	1000.0	1100.0	1000.0	1000.0	420.0	3234.0	2000.0	20000.0	30011.0	1
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1

						Table 3						
	Facility Name:		Hand	ly Pantry #65 / U	Iniversity Ma	rt & Clouds Ch	evron			ι	JST	07584 / 07777 / 12352
	Address:		2	2367 Taylor Stre	et Columbia,	South Carolin	a			Crawford	Project No.	7.0547
				Si		c Target Lev	el Summ	ary				
	• 6000000				Xylenes							
Well ID:	Item	Benzene	Toluene	Ethylbenzene	(Total)	MTBE	Naphth	TAA	TAME	TBA	Total	
	Initial	5.0	5.0	5.0	5.0	5.0	5.0	100.0	10.0	100.0	240.0	
	SSTL	5.0	5.0	5.0	5.0	5.0	5.0	110.0	2.0	14.0	156.0	
MW-54	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	86.0	94.0	Unable to Locate
	Subsequent							440.0			150.0	
	SSTL	5.0	5.0	5.0	5.0	5.0	5.0	110.0	2.0	14.0	156.0	
	Subsequent > SSTL	4.0	05.0	22.2	05.0	00.0	44.0	4000.0	45.0	100.0	2222.2	
	Initial	4.8	25.0	20.0	25.0	93.0	11.0	1800.0	15.0	100.0	2093.8	
	SSTL Initial > SSTL	4.8 0.0	25.0 0.0	20.0	25.0 0.0	51.0 42.0	11.0	279.0	15.0 0.0	100.0	530.8 0.0	4
MW-58		0.0	0.0	0.0	0.0	42.0 Abando		1521.0	0.0	0.0	0.0	Abandoned
V2000000000000000000000000000000000000	Subsequent SSTL	4.8	25.0	20.0	25.0	51.0	11.0	279.0	15.0	100.0	530.8	
	Subsequent > SSTL	4.0	25.0	20.0	25.0	Abando		2/9.0	15.0	100.0	550.6	-
	Initial	420.0	398.0	234.0	262.0	16.4	168.0	648.0	50.0	500.0	2696.4	
	SSTL	326.0	398.0	234.0	262.0	16.4	168.0	648.0	50.0	500.0	2602.4	
	Initial > SSTL	94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	+
MW-65	Subsequent	94.0	0.0	0.0		able to Locate			0.0	0.0	0.0	Unable to Locate
	SSTL	326.0	398.0	234.0	262.0	16.4	168.0	648.0	50.0	500.0	2602.4	
	Subsequent > SSTL	320.0	386.0	234.0		able to Locate			50.0	300.0	2002.4	1
	Initial	9200.0	1000.0	1400.0	4400.0	160.0	810.0	1300.0	1000.0	10000.0	29270.0	
-	SSTL	83.0	1000.0	1400.0	4400.0	160.0	108.0	1300.0	381.0	10000.0	18832.0	1
	Initial > SSTL	9117.0	0.0	0.0	0.0	0.0	702.0	0.0	619.0	0.0	10438.0	
MW-5AR	Subsequent	830.0	180.0	98.0	670.0	13.0	130.0	9.5	13.0	6.8	1950.3	93%
	SSTL	83.0	1000.0	1400.0	4400.0	160.0	108.0	1300.0	381.0	10000.0	18832.0	1
	Subsequent > SSTL	747.0	0.0	0.0	0.0	0.0	22.0	0.0	0.0	0.0	769.0	1
	Initial	460.0	3400.0	320.0	9200.0	50.0	250.0	710.0	500.0	5000.0	19890.0	
	SSTL	58.0	11928.0	3700.0	21680.0	290.0	19298.0	1114.0	330.0	29344.0	87742.0	1
	Initial > SSTL	402.0	0.0	0.0	0.0	0.0	0.0	0.0	170.0	0.0	572.0	1900000
PW-1R	Subsequent	850.0	6900.0	580.0	18000.0	21.0	1300.0	480.0	50.0	340.0	28521.0	-38%
	SSTL	58.0	11928.0	3700.0	21680.0	290.0	19298.0	1114.0	330.0	29344.0	87742.0	1
	Subsequent > SSTL	792.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	792.0	1
	Initial	2600.0	19000.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	61020.0	
	SSTL	45.0	8470.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	47935.0	
	Initial > SSTL	2555.0	10530.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13085.0	1
DW-3	Subsequent	2000	20000	2800	10000	23	650	2700	20.000	140	38333.0	-1%
	SSTL	45.0	8470.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	47935.0	
	Subsequent > SSTL	1955.0	11530.0	600.0	0.0	0.0	30.0	-900.0	0.0	0.0	13215.0	
	Initial	130.0	2.8	23.0	36.0	17.0	6.5	340.0	2.6	23.0	580.9	
	SSTL	5.0	2.8	23.0	36.0	17.0	6.5	240.0	2.6	23.0	355.9	
SW-1	Initial > SSTL	125.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	225.0	Lineble to Associa
SVV-1	Subsequent											Unable to Access
	SSTL	5.0	2.8	23.0	36.0	17.0	6.5	240.0	2.6	23.0	355.9	
	Subsequent > SSTL											
SSTL = Si	te Specific Target Leve										Initial	SSTL 325262.00
RBSL= Ri	sk Based Screening Le	vels			l	CF	RAWF	ORD			Subseque	ent>SSTL 113286.50
MtBE= Me	thyl Tert-Butyl Ether				l	EN	VIRONIV				COC Re	duction 65.17%
n/a = not a					ŀ		SERVIC	ES				
0.0 - Exclu	ded from Calculations				<del></del>							

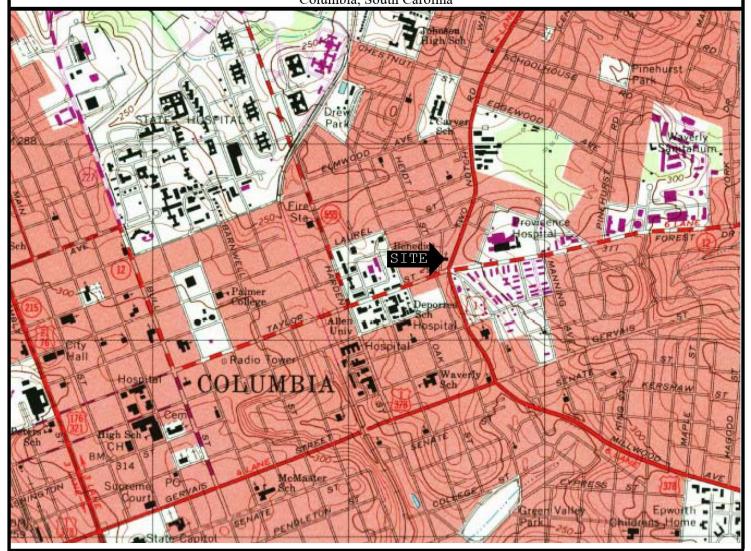
# **Figures**

Figure 1: Topographic Map
Figure 2: Site Facility Base Map
Figure 3: Groundwater Chemicals of Concern Map
Figure 4: Groundwater Elevation Map



### FIGURE 1

Site Location Map
Handy Pantry #65 / University Mart / Clouds Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina



#### CRAWFORD ENVIRONMENTAL SERVICES

15 Church Avenue, SW Roanoke Virginia, 24011

540-343-6256 (office) 540-343-6259 (fax)

### NORTH COLUMBIA, SOUTH CAROLINA

Source: U.S.G.S. Topographic Map of the

Columbia North Quadrangle, Virginia, 7.5 Minute Series (1977, revised 1988)

Scale: 1:24,000 Contour Interval: 20 Feet Vertical Datum: National Geodetic Vertical

Datum 1929

Horizontal Datum: North American Datum1927

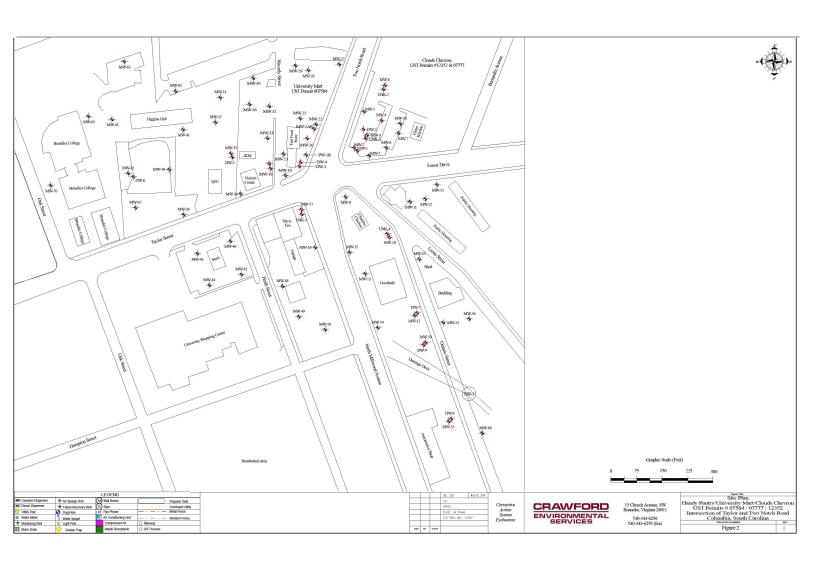
Project: CASE Report

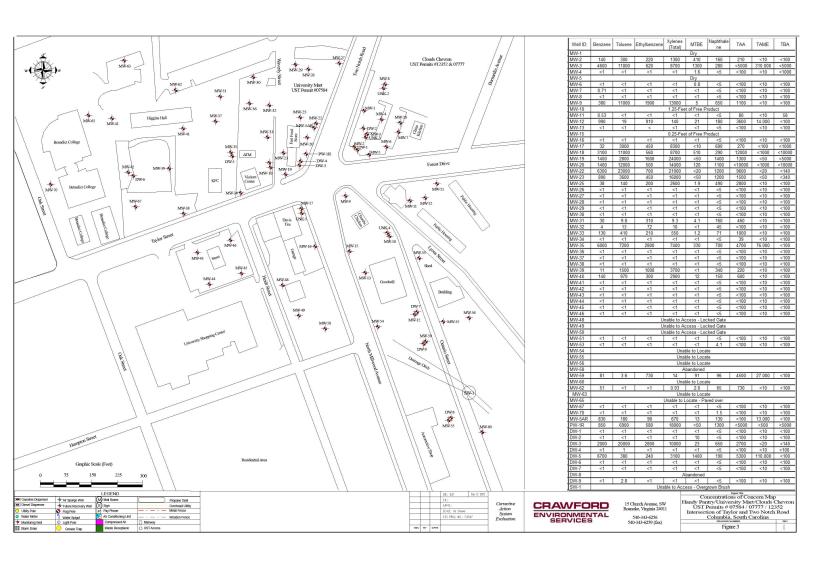
Client: SCDHEC

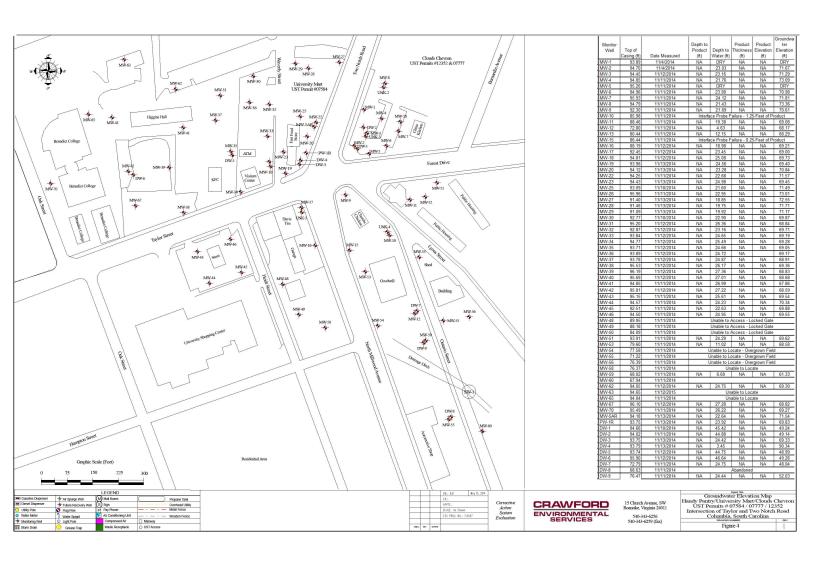
CES Job #: 7.0547



Latitude: 034"00'42.72"N Longitude: 081"01'00.13"W







# APPENDIX A

Purge Water Disposal Manifest





February 13, 2015

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management Underground Storage Tank Management Division 2600 Bull Street Columbia. SC 29201

Re: Purge Water Report- Development & Groundwater Sampling Handy Pantry #65/University Mart & Cloud's Chevron Intersection of Taylor Street and Two Notch Road Columbia, South Carolina UST Permit # 07584 / 07777 / 12352

Dear Project Manager;

The letter presents the certification that Crawford Environmental Services (CES) treated purge waters referenced below with a granular activated carbon unit prior to discharge. This was completed in accordance with the conditions laid out in the "Proposed Conditions for use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater" produced by the SCDHEC Bureau of Water.

A total of 105 gallons were treated on November 11/12/13, 2014 for the above referenced facility.

A record of treatment is available upon request. If you have any questions or comments please feel free to contact us at 540-798-5068.

Sincerely,

Daniel Fisher
Project Manager
Crawford Environmental Services

# APPENDIX B

**Groundwater Sampling Data Sheets** 



WELL		, Total V	Vell Depth (fe	et):	PU 7	WELL SCRE	EN INTER	RVAL	STATIC			P	URGE PUM R KAILER	P TYPE
VELL VO	R (inches): Z	-   : 1 WELL V	OLUME = (T = (	OTAL WELL	DEPTH fee		FPTH TO	WATER) feet)	X WELL C	CAPAC	et): ITY gallons	X423		gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
														-
				-				-		-		+-		+
				-						-		-	_	
	APACITY (Gallo	ons Per Foot):	0.75" = 0.03		SAI	5" = 0.06; 2'  MPLING  NATURE(S):	- Page - Ware	3" = 0.3	7; <b>4</b> " = 0.65				.47; 12" =	
AMPLE!		ons Per Foot):	0.75" = 0.00		SAI R(S) SIG	MPLING   NATURE(S):	- Page - Ware	3" = 0.3		DATE:	Y .	SAMI	PLING TIME	
AMPLES UMP OF EPTH IN	D BY (PRINT)		0.75" = 0.00	SAMPLER	SAI R(S) SIG	MPLING   NATURE(S):	- Page - Ware	3" = 0.3	SAMPLING FIELD-FILT Filtration Eq	DATE: ERED: uipmer	Y .	SAMI	PLING TIME FILTER	E: R SIZE:
OMPLES  UMP OF  DEPTH IN  UPLICA	D BY (PRINT) R TUBING N WELL (feet):	D: Y	N	SAMPLER	SAI R(S) SIGI	MPLING   NATURE(S):	DATA	3" = 0.3	SAMPLING	DATE: ERED: uipmen DED SIS DR	Y Nat Type:	SAMI	PLING TIME FILTER	E: R SIZE:
AMPLET UMP OF EPTH IN UPLICA	D BY (PRINT) R TUBING N WELL (feet): TE COLLECTE	D: Y	N	SAMPLER	SAI R(S) SIGI LL CODE SAMP	MPLING   NATURE(S):	DATA	3" = 0.3	SAMPLING FIELD-FILT Filtration Eq	DATE: ERED: uipmen DED SIS DR	Y Nat Type:	SAMI	PLING TIME FILTER	SAMPLE PUMP FLOW RATE
AMPLECUMP OF EPTH IN UPLICA	D BY (PRINT)  R TUBING N WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER	ER SPECIFIC	N CATION	SAMPLEF TUBING MATERIA	SAI R(S) SIGI LL CODE SAMP	MPLING NATURE(S): : LE PRESERV. ADDED IN FIE	DATA	FINAL	SAMPLING FIELD-FILT Filtration Eq	DATE: ERED: uipmen DED SIS DR	Y Nat Type:	SAMI	PLING TIME FILTER	SAMPLE PUMP FLOW RATE

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

	mv.	- 2			SAMP	LE ID:			Ylon: 7		11-10	5-1	4	-
					PU	RGING								
VELL DIAMETE	R (inches): 2	2_	Vell Depth (fee		30	DEPTH:	ZJ fee	TERVAL	STATIC eet TO WAT	ER (fee	et): 73.0	3 0	R BAILER	P TYPE
ELL VO	LUME PURGE	: 1 WELL V	OLUME = (TC = (	OTAL W	ELL DEPTH fee		C DEPTH	TO WATER fee	t) X WELL (	CAPAC	gallons.	/foot	Ē.	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	CONI (µS)	Α	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
530			25.14		4.55		126		4.90		8.57		cler	jter
ELL CA	PACITY (Gallo	ns Per Foot):	<b>0.75"</b> = 0.02	2; 1" =	0.04; 1.2	5" = 0.06;	2" = 0,1	16; <b>3"</b> = 0.	37; <b>4"</b> = 0.65	5; 5"	= 1.02;	6" = 1	.47; 12" =	5.88
					SA	MPLIN	G DAT	ΓΑ	Took	2	000-	1		
1711	BY (PRINT)	- ny		2	PLER(S) SIG	MPLIN NATURE(S		ΓΑ	11-11-	17		15	PLING TIME	
PUMP OF DEPTH IN	3.5	1	) N	7 TUBIN	PLER(S) SIG	NATURE(S		ΓΑ		1) ERED:	Y N	15		
PUMP OF DEPTH IN DUPLICA	R TUBING WELL (feet):	D: (Y		7 TUBIN	PLER(S) SIG	NATURE(S	5):		//- //-	ERED: quipmer DED rsis OR	Y N nt Type:	15	FILTER	SIZE:
PUMP OF DEPTH IN DUPLICA	R TUBING I WELL (feet): TE COLLECTE	D: (Y		TUBIN MATE	PLER(S) SIG	NATURE(S	RVATION VOL		FIELD-FILT Filtration Ed	ERED: quipmer DED 'SIS OR OD	Y N nt Type:	MPLIN	FILTER	AMPLE PUMP FLOW RATE
UMP OF SAM	R TUBING N WELL (feet): TE COLLECTE PLE CONTAIN  # CONTAINER	D: Y  ER SPECIFIC  MATERIA	CATION	TUBIN MATE	SAMP	LE PRESE	RVATION VOL N FIELD	<b>N</b> FINAL	FIELD-FILT Filtration Ed	ERED: quipmer DED 'SIS OR OD	Y N Type:	MPLIN	FILTER	AMPLE PUMP FLOW RATE
UMP OF DEPTH IN DUPLICA  SAM	R TUBING N WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER S	D: Y  ER SPECIFIC  MATERIA L CODE	CATION	TUBIN MATE	SAMP	LE PRESE	RVATION VOL N FIELD	N FINAL pH	FIELD-FILT Filtration Ed	ERED: quipmer DED 'SIS OR OD	Y N Type:	MPLIN	FILTER	AMPLE PUMP FLOW RATE

	ma	3			SAMPI	223			lan :		10	-/3.	14	
WELL	2	Total V	Well Depth (fee	it):	PU ? 9	WELL SO	CREEN IN	TERVAL	STATIC	DEPTH	. 23	PI PI	URGE PUM	P TYPE
WELL VO	R (inches): 2	: 1 WELL V	OLUME = (TC = (		ELL DEPTH fee	- STATIO	C DEPTH	TO WATER	et TO WAT  X WELL (	CAPACIT	TY gallons			gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
400			2565		5.61		182		2.79		1.67		Clem	SLis
SAMPLE	D BY (PRINT)		0.75" = 0.02		200000000000000000000000000000000000000	MPLING	G DAT		37; <b>4</b> " = 0.65		1,02;	SAME	.47; 12" =	
LIII:	- Lh	100			2				11-11-			14	00	
PUMP OF DEPTH IN	R TUBING N WELL (feet): TE COLLECTE		(A)	TUBIN	NG (ERIAL CODE				// -//- FIELD-FILT Filtration Ed	ERED:		0	FILTER	
PUMP OF DEPTH IN DUPLICA	R TUBING N WELL (feet):	ED: Y			RIAL CODE	LE PRESE	RVATION		FIELD-FILT	ERED: juipment DED SIS DR	Type:	AMPLIN	FILTER S NG ENT	
PUMP OF DEPTH IN DUPLICA	PLE CONTAIN  # CONTAINER S	ED: Y		MATE	RIAL CODE		VOL N FIELD	FINAL pH	FIELD-FILT Filtration Ed INTENI ANALY AND/ METH	ERED: juipment DED SIS OR OD	SA EQ	AMPLIN UIPME CODE	FILTER S NG ENT	SAMPLE PUMP FLOW RATE
PUMP OF DEPTH IN DUPLICA SAM	R TUBING N WELL (feet): TE COLLECTE PLE CONTAIN  # CONTAINER	ER SPECIFIC	CATION	PRES	SAMPI SERVATIVE	LE PRESEI	VOL N FIELD		FIELD-FILT Filtration Ed INTENI ANALY AND/ METH	ERED: juipment DED SIS DR	SA EQ	AMPLIN UIPME CODE	FILTER S NG ENT	SAMPLE PUMP FLOW RATE
DEPTH IN DUPLICA SAM	PLE CONTAIN  # CONTAINER S	ER SPECIFIC  MATERIA L CODE	CATION	PRES	SAMPI SERVATIVE USED	TOTAL ADDED IN (mL	VOL N FIELD	pН	FIELD-FILT Filtration Ed INTENI ANALY AND/ METH	ERED: juipment DED SIS OR OD	SA EQ	AMPLIN UIPME CODE	FILTER S NG ENT	SAMPLE PUMP FLOW RATE

WELL NO		195		SA	MPLE ID:			lon e		7/-	10-	14	
					PURGIN								
VELL NAMETE	R (inches):		Vell Depth (fee	et): 90	WELL	SCREEN IN	TERVAL to 28 fe	STATIC eet TO WAT	ER (fee	1)21.74		RGE PUMI	TYPE
ELL VO	LUME PURGE	: 1 WELL V	OLUME = (To	OTAL WELL DEP	PTH - STA feet-	TIC DEPTH	TO WATER feet	) X WELL	CAPACI	TY gallons	/foot =		gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	bH (su)		CONE	). Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOI
350			25.48	4.5	2	15/		4.45		3.02		CLean	NO
									-				-
						-			-				
VELL CA	PACITY (Gallo	ons Per Foot):	0.75" = 0.02	2; 1" = 0.04;	1.25" = 0.06	5; 2" = 0.1	6; 3" = 0.3	37; <b>4"</b> = 0.65	5; 5"	= 1.02;	6" = 1.4	7; 12" =	5.88
					SAMPLII	NG DAT	۸.						
	BY (PRINT)			SAMPLER(S)				SAMPLING				ING TIME	:
WIII	AM EL	2.45		TUBING	al 2	3/_		1/ - //-		YC	13:	FILTER	SIZE:
DEPTH IN	WELL (feet):		N	MATERIAL CO	DDE:			Filtration E				- Angornago	12.10.000
	PLE CONTAIN			SA	MPLE PRES	SERVATION		INTENI ANAL) AND/ METH	'SIS OR	EQ	MPLING UIPMEN CODE	G IT	AMPLE PUMP FLOW RATE ml/min)
SAMPLE D CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIV USED	ADDEL	AL VOL D IN FIELD (mL)	FINAL pH						
	3	66	40ml	HCL	N	14	NA	826	OB		13		

REMARKS: PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify) MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Elect RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); ESP = Electric Submersible Pump; SAMPLING EQUIPMENT CODES:

O = Other (Specify)

WELL NO	Cloud MW S	TAR		S	AMPLE ID:		120	15.5	on i, i		DATE:	0-	14	
					PLIPCI	NG DAT								
WELL DIAMETE WELL VO	R (inches): 2	_	Vell Depth (feet  OLUME = (TC) = (	25	WEI	L SCREEN	NTERV	& fee	X WELL	DEPTH TER (fee	22.6	0	URGE PUM PBAILER	P TYPE
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ pl		CON (µS	100	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
15	(Sallerie)	(gallons)	23.45	60	,9	186			. 9/	,	2,47		Clean	57
SAMPLED	D BY (PRINT)  R TUBING N WELL (feet):		0.75" = 0.02;		SAMPL ) SIGNATUR	ING DA		" = 0,3°	SAMPLING	DATE	YN	SAMI	PLING TIME	
UPLICA	TE COLLECTE		CATION	s	AMPLE PR	ESERVATIO	N		INTENI ANALY AND/O	rsis Or	EQI	MPLII JIPME CODE	NG ENT	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE D CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVAT USED		OTAL VOL ED IN FIELD (mL)	FIN							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	3	CG	40 ML	HCL	, 1	VA	N	A	824	oD B		В		

SAMPLING EQUIPMENT CODES:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass;

APP = After Peristaltic Pump; B = B
RFPP = Reverse Flow Peristaltic Pump;

B = Bailer;

PE = Polyethylene; PP = Polypropylene; S = Silicone;

BP = Bladder Pump;

SM = Straw Method (Tubing Gravity Drain);

O = Other (Specify)

T = Teflon;

O = Other (Specify)

ESP = Electric Submersible Pump;

AME:	Clou.	15			T	L	OCATION:	Aylor	: Tan	ON	DATE		XICE	
ELL NO	mw-	5			SAMP	LE ID:					10-	11-	/ (	
					PU	IRGING	DATA	Š.	Block			201	7	
ELL IAMETE	R (inches):		Vell Depth (fe	2	6	DEPTH:	CREEN INT	02 6 fee	STATIC t TO WAT	ER (fee	t):		R BAILER:	P TYPE
ELL VC	LUME PURGE	: 1 WELL V	OLUME = (T = (	OTAL WEI		- STAT	C DEPTH T	ro WATER) feet)		CAPACI	TY gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
				$\vdash$						V.				
						_								0
	APACITY (Gallo				SA	MPLIN	G DAT		Di	24				
AMPLE	D BY (PRINT)			SAMPL	ER(S) SIG	NATURE(S	i):		SAMPLING			/		
EPTH IN	R TUBING WELL (feet): TE COLLECTE	D: Y	N	TUBING	S SAL CODE	:			FIELD-FILT Filtration Eq				FILTER	SIZE:
	PLE CONTAIN				SAMP	LE PRESE	RVATION		INTEND ANALY AND/O	SIS	EQ	MPLIN UIPME CODE	IG NT	AMPLE PUMP FLOW RATE ml/min)
SAMPLE D CODE	# CONTAINER S	MATERIA L CODE	VOLUME		RVATIVE SED	ADDED II	FIELD	FINAL pH						
										1-44				
EMARK	S:													-
	S:			Clear Gla		= Polyethy		= Polyprop		Silicone	T = Te		O = Other	10-

AME: (	Clas	1 5				LC	CATION:	177"	or ! lu	5/1	DICI	7		
VELL NO: N	14	6			SAMPL	E ID:			or Tu	1	DATE	10	-14	
													1	
VELL		Total V	Vell Denth (fee	t)·	PU	RGING WELL SO	REEN INT	TERVAL	STATIC	DEPTH		PL	JRGE PLIM	P TYPE
IAMETER (inche	nes): [	2	Vell Depth (fee	3	٥	DEPTH:	2, feet	to 20 fe	et TO WATI	ER (fee	0238	80	R BAILER:	>
ELL VOLUME	PURGE:	1 WELL V	OLUME = (10 = (	JIAL WE	feet	- STATIC	DEPIH	feet	) X WELL C	APACI	gallons	/foot	=	gallons
TIME PUR	LUME RGED Illons)	CUMUL VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
430			25.03		4.96		108		3.22		7.46		66	10
												-		-
														-
ELL CAPACIT	ry (Gallo	ns Per Foot):	0.75" = 0.02	: 1"=	0.04; 1.25	n = 0.06;	2" = 0.16	6; <b>3"</b> = 0.3	37; 4" = 0.65;	5" :	= 1.02;	6" = 1.	47; 12" =	= 5.88
		ns Per Foot):	0.75" = 0.02			<b>VIPLIN</b>	G DAT		37; 4" = 0.65;			entre l'e	47; 12" =	
AMPLED BY (P	PRINT)	2000	<b>0.75"</b> = 0.02	SAMPL	SAM LER(S) SIGN	<b>VIPLIN</b>	G DAT		SAMPLING	DATE:		SAMF	PLING TIME	
AMPLED BY (P	PRINT) NG L (feet):	ning		SAMPI	SAM LER(S) SIGN	<b>VIPLIN</b>	G DAT		SAMPLING	DATE:	Y Ø	SAMF	PLING TIME	
EAMPLED BY (P	PRINT) NG L (feet):	ning	0.75" = 0.02	SAMPI	SAM LER(S) SIGN G	<b>VIPLIN</b>	G DAT		SAMPLING	DATE:	Y Ø	SAMF	PLING TIME 3 d FILTER	R SIZE:
AMPLED BY (P UMP OR TUBIN DEPTH IN WELL	PRINT)  NG L (feet):	n'ny D: Y	0	SAMPI	SAN LER(S) SIGN G RIAL CODE:	<b>VIPLIN</b>	G DAT		SAMPLING	DATE:	Y (N) t Type:	SAMF	PLING TIME  3 0  FILTER  IG	R SIZE:
SAMPLE CONTACTOR	PRINT)  NG L (feet):  ONTAINE  # TAINER	n'ny D: Y	0	SAMPI Z TUBIN MATER	SAN LER(S) SIGN G RIAL CODE:	MPLINC  NATURE(S)  LE PRESEF  TOTAL  ADDED IN	G DATA		SAMPLING //-//- FIELD-FILTE Filtration Equ	DATE:	Y (N) t Type:	SAMP	PLING TIME  3 0 FILTER  IG	SAMPLE PUMP FLOW RATE
AMPLE CO	PRINT)  NG L (feet):  DLLECTEI  ONTAINI	D: Y  ER SPECIFIC  MATERIA	CATION	SAMPI Z TUBIN MATER	SAM LER(S) SIGN G RIAL CODE: SAMPL ERVATIVE JSED	MPLINC NATURE(S) LE PRESER	RVATION  VOL FIELD	<b>A</b> FINAL	SAMPLING //-//- FIELD-FILTE Filtration Equ	DATE:	Y t Type:	SAMP	PLING TIME  3 0 FILTER  IG	SAMPLE PUMP FLOW RATE
AMPLE CO	PRINT)  NG L (feet):  ONTAINE  # TAINER	D: Y ER SPECIFIC MATERIA L CODE	CATION	SAMPI ZUBIN TUBIN MATER	SAM LER(S) SIGN G RIAL CODE: SAMPL ERVATIVE JSED	MPLINC NATURE(S)  LE PRESEF  TOTAL ADDED IN (mL)	RVATION  VOL FIELD	A FINAL pH	SAMPLING  // -//-  FIELD-FILTE  Filtration Equ  INTEND  ANALYS  AND/O  METHO	DATE:	Y t Type:	MPLIN MPLIN JIPME CODE	PLING TIME  3 0 FILTER  IG	SAMPLE PUMP FLOW RATE
SAMPLE CONTACTOR	PRINT)  NG L (feet):  ONTAINE  # TAINER	D: Y ER SPECIFIC MATERIA L CODE	CATION	SAMPI ZUBIN TUBIN MATER	SAM LER(S) SIGN G RIAL CODE: SAMPL ERVATIVE JSED	MPLINC NATURE(S)  LE PRESEF  TOTAL ADDED IN (mL)	RVATION  VOL FIELD	A FINAL pH	SAMPLING  // -//-  FIELD-FILTE  Filtration Equ  INTEND  ANALYS  AND/O  METHO	DATE:	Y t Type:	MPLIN MPLIN JIPME CODE	PLING TIME  3 0 FILTER  IG	SAMPLE PUMP FLOW RATE
AMPLED BY (P	PRINT)  NG L (feet):  ONTAINE  # TAINER	D: Y ER SPECIFIC MATERIA L CODE	CATION	SAMPI ZUBIN TUBIN MATER	SAM LER(S) SIGN G RIAL CODE: SAMPL ERVATIVE JSED	MPLINC NATURE(S)  LE PRESEF  TOTAL ADDED IN (mL)	RVATION  VOL FIELD	A FINAL pH	SAMPLING  // -//-  FIELD-FILTE  Filtration Equ  INTEND  ANALYS  AND/O  METHO	DATE:	Y t Type:	MPLIN MPLIN JIPME CODE	PLING TIME  3 0 FILTER  IG	SAMPLE PUMP FLOW RATE
SAMPLED BY (P	PRINT)  NG L (feet):  ONTAINE  # TAINER	D: Y ER SPECIFIC MATERIA L CODE	CATION	SAMPI ZUBIN TUBIN MATER	SAM LER(S) SIGN G RIAL CODE: SAMPL ERVATIVE JSED	MPLINC NATURE(S)  LE PRESEF  TOTAL ADDED IN (mL)	RVATION  VOL FIELD	A FINAL pH	SAMPLING  // -//-  FIELD-FILTE  Filtration Equ  INTEND  ANALYS  AND/O  METHO	DATE:	Y t Type:	MPLIN MPLIN JIPME CODE	PLING TIME  3 0 FILTER  IG	SAMPLE PUMP FLOW RATE
AMPLED BY (P	PRINT)  NG L (feet):  ONTAINE  # TAINER	D: Y ER SPECIFIC MATERIA L CODE	CATION	SAMPI ZUBIN TUBIN MATER	SAM LER(S) SIGN G RIAL CODE: SAMPL ERVATIVE JSED	MPLINC NATURE(S)  LE PRESEF  TOTAL ADDED IN (mL)	RVATION  VOL FIELD	A FINAL pH	SAMPLING  // -//-  FIELD-FILTE  Filtration Equ  INTEND  ANALYS  AND/O  METHO	DATE:	Y t Type:	MPLIN MPLIN JIPME CODE	PLING TIME  3 0 FILTER  IG	SAMPLE PUMP FLOW RATE

TAYlon & Tus North

					FU	RGING D	Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro			100010-00		-	VANDER	
/ELL IAMETE	R (inches): 2	Total V	Vell Depth (feet	t):	30	WELL SCRE	EN INTER	YAL Fee	STATIC et TO WAT	DEPTH ER (fee	et):24.1	2 PL	RGE BLIM	PTYPE
ELL VO	LUME PURGE	: 1 WELL V	OLUME = (TC	TAL WE	LL DEPTH fee	- STATIC D	ЕРТН ТО	WATER) feet)	X WELL C	CAPACI	TY gallons			gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
126			24.55		3.93	1	39		5.45		1.50		Clean	No
								-						
										-				
						-				-	-			
_				-										
			T.											
				_						-		_		
ELL CA	PACITY (Gallo	ns Per Foot):	0.75" = 0.02	; 1" = (	0.04; 1.29	5" = 0.06; 2"	= 0.16;	3" = 0.3	7; 4" = 0.65	; 5"	= 1.02;	6" = 1.	47; 12" =	5.88
AMDIEC	D DV (DDINIT)			SAMPL	SAI ER(S) SIGI	5" = 0.06; 2"  MPLING [ NATURE(S):		3" = 0.3	SAMPLING	DATE:		SAME	PLING TIME	
AMPLEC				SAMPL TUBING	SAI ER(S) SIGI	MPLING I		3" = 0.3		DATE:	YO	SAMF		ė.
AMPLEC UMP OF PEPTH IN	BY (PRINT)	Ewig		SAMPL TUBING	SAI ER(S) SIGI	MPLING I		3" = 0.3	SAMPLING	DATE:	YO	SAMF	PLING TIME 20 FILTER	: R SIZE:
AMPLEC UMP OF EPTH IN	D BY (PRINT)	En'y	<b>©</b>	SAMPL TUBING	SAI ER(S) SIGI G RIAL CODE	MPLING I	DATA	3" = 0.3	SAMPLING	DATE:	Y (N) t Type:	SAMF	PLING TIME 20 FILTER  SIG	SAMPLE PUMP FLOW RATE
AMPLEC UMP OF EPTH IN	D BY (PRINT)  A A A  R TUBING WELL (feet): TE COLLECTE  PLE CONTAIN	En'y	<b>©</b>	SAMPL TUBING MATER	SAI ER(S) SIGI G RIAL CODE	MPLING I	DATA	3" = 0.3	SAMPLING // -//-/ FIELD-FILT Filtration Eq	DATE:	Y (N) t Type:	SAMP	PLING TIME 20 FILTER  SIG	SIZE:
JMP OF EPTH IN JPLICA SAMI	D BY (PRINT)	Ew 'y  ER SPECIFIC  MATERIA	CATION	SAMPL TUBING MATER	SAI LER(S) SIGI G RIAL CODE: SAMPI	MPLING INATURE(S):  LE PRESERVA  TOTAL VOL ADDED IN FIE	DATA  TION  F	INAL	SAMPLING // -//-/ FIELD-FILT Filtration Eq	DATE:	Y type:	SAMP	PLING TIME 20 FILTER  SIG	SIZE:
AMPLEC UMP OF EPTH IN UPLICA SAMI	D BY (PRINT)  A A A  R TUBING  WELL (feet):  TE COLLECTE  PLE CONTAINS  #  CONTAINER  S	ER SPECIFIC	CATION	SAMPL TUBING MATER PRESE	SAI LER(S) SIGI G RIAL CODE: SAMPI	MPLING INATURE(S):  LE PRESERVA  TOTAL VOL  ADDED IN FIE  (mL)	DATA  TION  F	INAL pH	SAMPLING // - //-) FIELD-FILT Filtration Eq	DATE:	Y type:	SAMP / 4/ MPLIN JIPME CODE	PLING TIME 20 FILTER  SIG	SIZE:

SITE

NAME:

clouds

SITE NAME: (	cloud m.	15				S	ITE OCATION:	TAYI	or i	74	DNOT	211		
WELL NO	ma	v 8			SAMPL	LE ID:		Į.			I / (-	10-	17	
					DII	DCING	DATA							
WELL		Total V	Vell Depth (fe	nt):	PU	Transport (1977)	CREEN INT	FRVAI	STATIC	DEPTH	04 F	I PL	RGEPHM	P TYPE
DIAMETE	R (inches):	2		7	8	DEPTH:	/ F feet t	0 28 fee	t TO WAT	ER (fee	et):214	/3 OF	BAILER	
WELL VO	LUME PURGE	: 1 WELL V	OLUME = (T = (	OTAL WE	LL DEPTH fee		C DEPTH T	O WATER) feet)	X WELL C	CAPAC	gallons	s/foot	=	gallon
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ОДО
300		1,500.007	25.21		4.68		47		4.48		1.14		LL	10
										-				
	APACITY (Gaile	0.5.0	A 7511 - 0 0	0 4"	0.04: 4.04	= 0.06:	2" - 0 16	311 - 0.3	7: A" → 0.65	. s"	- 1.02:	6" = 1	47: 12" :	- 5.88
WELL CA	APACITY (Galio	ons Per Foot)	0.75 = 0.0	2, 1 -	0.04, 1.20	- 0.00,	2 - 0.10	3 -0.5	7, 4 - 0.03		- 1.02,			0.00
					SAI	MPLIN	G DAT	A						
	DBY (PRINT)	= .		SAMPL	ER(S) SIGI	NATURES	<b>s</b> );		SAMPLING				LING TIME	
PUMP OF	RTUBING	Enry		TUBIN	G /				FIELD-FILT	ERED:	Y			R SIZE:
	V WELL (feet): TE COLLECTE	ED: Y	0	MATER	RIAL CODE:				Filtration Eq	ulpmer	п туре.			-
SAM	PLE CONTAIN	IER SPECIFI	CATION		SAMPI	LE PRESE	RVATION		INTENE ANALY AND/O METHO	SIS	EQ	AMPLIN UIPME CODE	IG NT	PUMP FLOW RATE (ml/min
SAMPLE ID CODE	# CONTAINER	MATERIA L CODE	VOLUME		ERVATIVE JSED	TOTAL ADDED II	N FIELD	FINAL pH						
	7		125 - 155 I	10	1	+	. 1	1	rn1			0		

S = Silicone; T = Teflon; O = Other (Specify) PP = Polypropylene; MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; ESP = Electric Submersible Pump; SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

RFPP = Reverse Flow Peristaltic Pump;

STABILIZATION CRITERIA

REMARKS:

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

WELL NO	louds mu-	. 5			SAMPI	LE ID:			in: The	A I I I	DATE:	1-19	7	
					PH		DATA							
VELL DIAMETE	R (inches): 2		Vell Depth (fee		30	WELL S	CREEN INTE	30 fee	STATIC I	ER (fee	t):2 1.6°	9 0	JRGE PUM R BAILER:	33
			= (	200	fee	et –		feet)	X		gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
7:40	0	.16	2467		6.02		214		4.85		c/.81		C/	STRa
WELLCA	APACITY (Gallo	ons Per Foot):	<b>0.75"</b> = 0.02	1"=	0.04; 1.2	5" = 0.06;	2" = 0.16;	3" = 0.3	37; <b>4"</b> = 0.65	; 5"=	= 1.02;	6" = 1	.47; 12" :	= 5.88
	A MONT (COM													
SAMPI FI	D BY (PRINT)			SAMPL	SA ER(S) SIG		G DATA		SAMPLING	DATE:		SAM	PLING TIME	Ē:
Will:	4- F-	··7		TUBIN	3	2			//- //-/L FIELD-FILT Filtration Eq	ERED:	Y	9:		R SIZE:
	N WELL (feet): TE COLLECTE	ED: Y	0	MATER	RIAL CODE				Fittration Eq	uipmen	п туре.			
SAM	PLE CONTAIN	IER SPECIFIC	CATION		SAMP	PLE PRES	ERVATION		INTENE ANALY AND/O METHO	SIS	EQ	MPLI UIPMI CODE	NG ENT	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME		ERVATIVE JSED	ADDED	L VOL N FIELD IL)	FINAL pH						
	3	Ca	YomL	H	cL	1	A I	VA	826	03	?	B		
				-		V								

SAMPLING EQUIPMENT CODES:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass;

APP = After Peristaltic Pump;

RFPP = Reverse Flow Peristaltic Pump;

B = Bailer; BP = Bladder Pump; ESP = Elect Pump; SM = Straw Method (Tubing Gravity Drain);

ESP = Electric Submersible Pump;

O = Other (Specify)

ALLE INC	cloud mar	10			SAMP	LE ID:		1	lon i		DATE	1-14	6	
						between to see an to the see					1.33			
/ELL		Total V	Vell Depth (fe	et):	PU	WELLSO	REEN INTE	RVAL	STATIC	DEPTH		PI	JRGE PUM	P TYPE
IAMETE	R (inches): Z	2			28	DEPTH:	18 feet to	2 8 fe	et TO WAT	ER (fee	et): 18.10		R BAILER:	
ELL VC	DLUME PURGE	: 1 WELL V	= (I	OTAL WE		- STATIC	, DEPTH IC	feet)	X	JAPAGI	gallons	/foot	=	gallon
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
			ļ					-			-		_	-
			<u> </u>			-				-	<u> </u>			
ELL C#	APACITY (Gallo	ons Per Foot):	0.75" = 0,02	2; 1" = 0		5" = 0.06; MPLING	es passare was							5.88
	APACITY (Gallo	ons Per Foot):	0.75" = 0.02		SA	CMAL DE MODERAGE	DATA		7; 4" = 0,65  Fet  SAMPLING					
AMPLEI UMP OF EPTH IN	D BY (PRINT) R TUBING N WELL (feet):			SAMPL	SA ER(S) SIG	MPLING NATURE(S)	DATA			PATE:	Pha	SAME		:
AMPLEI UMP OR EPTH IN UPLICA	D BY (PRINT)	ED: Y	N	SAMPL	SA ER(S) SIG SIAL CODE	MPLING NATURE(S)	DATA		FIELD-FILT	DATE: ERED: uipmen DED SIS DR	Y Nit Type:	SAME	FILTER  IG NT	:
JMP OF EPTH IN JPLICA SAM	D BY (PRINT) R TUBING N WELL (feet): TE COLLECTE	ED: Y	N	SAMPLI TUBING MATER	SA ER(S) SIG SIAL CODE	MPLING NATURE(S)	CVATION //OL FIELD		FIELD-FILT Filtration Eq	DATE: ERED: uipmen DED SIS DR	Y Nit Type:	SAME	FILTER  IG NT	SIZE:
AMPLED JMP OR EPTH IN UPLICA	D BY (PRINT)  R TUBING N WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER	ER SPECIFIC	N CATION	SAMPLI TUBING MATER	SA ER(S) SIG SIAL CODE SAMP	MPLING NATURE(S)  LE PRESER  TOTAL \ ADDED IN	CVATION //OL FIELD	FINAL	FIELD-FILT Filtration Eq	DATE: ERED: uipmen DED SIS DR	Y Nit Type:	SAME	FILTER  IG NT	SIZE:
AMPLEC JMP OF EPTH IN UPLICA SAM	D BY (PRINT)  R TUBING N WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER	ER SPECIFIC	N CATION	SAMPLI TUBING MATER	SA ER(S) SIG SIAL CODE SAMP	MPLING NATURE(S)  LE PRESER  TOTAL \ ADDED IN	CVATION //OL FIELD	FINAL	FIELD-FILT Filtration Eq	DATE: ERED: uipmen DED SIS DR	Y Nit Type:	SAME	FILTER  IG NT	SIZE:
AMPLEC JMP OF EPTH IN UPLICA SAM	D BY (PRINT)  R TUBING N WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER	ER SPECIFIC	N CATION	SAMPLI TUBING MATER	SA ER(S) SIG SIAL CODE SAMP	MPLING NATURE(S)  LE PRESER  TOTAL \ ADDED IN	CVATION //OL FIELD	FINAL	FIELD-FILT Filtration Eq	DATE: ERED: uipmen DED SIS DR	Y Nit Type:	SAME	FILTER  IG NT	SIZE:

SAMPLING EQUIPMENT CODES:

 APP = After Peristaltic Pump;
 B = Bailer;
 BP = Bladder Pump;
 ESP = Electric Submersible Pump;

 RFPP = Reverse Flow Peristaltic Pump;
 SM = Straw Method (Tubing Gravity Drain);
 O = Other (Specify)

SAMPLE ID:

WELL DIAMETE	R (inches): 2	7/	Well Depth (fee	30		WELL SCREED DEPTH: NA	N INTERVAL	- feet	STATIC I	ER (fee	19.30	PL	URGE PUM R BAILER:	P TYPE
WELL VO	LUME PURGE	: 1 WELL V	= (	JIAL WELL	fee	- STATICUE t-	PIH IO WAI	feet)	X WELL C	APACI	gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	1 A 1	OND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
230			22.98		5. 27		60		1.27		3.98		u	No
ELL CA	PACITY (Galic	ons Per Foot)	0.75" = 0.02	2; 1" = 0.0		" = 0.06; 2":		= 0.37;	4" = 0.65;	5" =	= 1.02; 6	3" = 1.	47; 12":	= 5.88
AMPLE	D BY (PRINT)		0.75" = 0.02		SAI	" = 0.06; 2" :  MPLING D  NATURE(S):			SAMPLING	DATE:		SAME	PLING TIME	
SAMPLEI PUMP OF DEPTH IN	D BY (PRINT)  R TUBING N WELL (feet):	nig		SAMPLE	SAI	MPLING D				DATE:	Y AT	SAMF		Ξ:
SAMPLEI PUMP OF DEPTH IN DUPLICA	D BY (PRINT)	wig	0	SAMPLE	SAI R(S) SIGN ALCODE:	MPLING D	ATA		SAMPLING	DATE:  SERED:  Jipment  ED  SIS	Y AType:	SAMF	FILTER	≣: R SIZE:
SAMPLEI SAM SAMPLE	D BY (PRINT)  R TUBING N WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER S	ER SPECIFIC MATERIA L CODE	CATION	SAMPLE TUBING MATERIA  PRESER USI	SAI R(S) SIGN ALCODE: SAMPI	MPLING D NATURE(S):  LE PRESERVA  TOTAL VOL ADDED IN FIEL (mL)	TION  FINAL PH		SAMPLING  //-//-/ FIELD-FILTE Filtration Equ  INTEND ANALYS AND/O METHO	DATE:	Y t Type:	SAMF /2 MPLIN JIPME CODE	FILTER	SAMPLE PUMP FLOW RATE
AMPLEI UMP OF EPTH IN UPLICA SAM	D BY (PRINT) R TUBING N WELL (feet): TE COLLECTE PLE CONTAIN # CONTAINER	ED: Y ER SPECIFIC	CATION	SAMPLE TUBING MATERIA	SAI R(S) SIGN ALCODE: SAMPI	MPLING D NATURE(S):  LE PRESERVA  TOTAL VOL ADDED IN FIEL	TION FINAL		SAMPLING //-//-/ FIELD-FILTE Filtration Equ INTEND ANALY: AND/O	DATE:	Y AType:	SAMF /2 MPLIN JIPME CODE	FILTER	SAMPLE PUMP FLOW RATE
SAMPLEI CILI PUMP OF DEPTH IN DUPLICA	D BY (PRINT)  R TUBING N WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER S	ER SPECIFIC MATERIA L CODE	CATION	SAMPLE TUBING MATERIA  PRESER USI	SAI R(S) SIGN ALCODE: SAMPI	MPLING D NATURE(S):  LE PRESERVA  TOTAL VOL ADDED IN FIEL (mL)	TION  FINAL PH		SAMPLING  //-//-/ FIELD-FILTE Filtration Equ  INTEND ANALYS AND/O METHO	DATE:	Y t Type:	SAMF /2 MPLIN JIPME CODE	FILTER	SAMPLE PUMP FLOW RATE
SAMPLE SAMPLE	D BY (PRINT)  R TUBING N WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER S 3	ER SPECIFIC MATERIA L CODE	CATION	SAMPLE TUBING MATERIA  PRESER USI	SAI R(S) SIGN ALCODE: SAMPI	MPLING D NATURE(S):  LE PRESERVA  TOTAL VOL ADDED IN FIEL (mL)	TION  FINAL PH		SAMPLING  //-//-/ FIELD-FILTE Filtration Equ  INTEND ANALYS AND/O METHO	DATE:	Y t Type:	SAMF /2 MPLIN JIPME CODE	FILTER	SAMPLE PUMP FLOW RATE

SITE NAME: Clauds
WELL NO: MW-11

NAME: Cloy &	SITE LOCATION: TAKON.	
WELL NO: Mu-12	SAMPLE ID:	DATE: 71-14

WELL DIAMETEI	R (inches): 2	-3	Vell Depth (fee	2	4.65	DEPTH:	CREEN INTER	M4 feet	STATIC D	R (fe	et): 4.6	PI O	JRGE PUMI	P TYPE
WELL VO	LUME PURGE:	1 WELL V	OLUME = (TC = (	TAL W	ELL DEPTH	- STAT t- 4	C DEPTH TO	WATER) feet)	x .16	APAC	gallons	foot	= 3	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
1110	0		24.51		6.03		288		1.16		88.4		LLen	No.
1115	3		25.56		6.17		437		2.31		292		1	
120	6		25.67		6.16		444		3.74		119			
125	9		25.68		6.17		446		3.75		182		1	V
				To any										
			I I	The second	(n)									
				=		-								
												V		

SAMPLING DATA SAMPLER(S) SIZMATURE(S): SAMPLING DATE: SAMPLING TIME: SAMPLED BY (PRINT) 11-11-14 Illian Ening FIELD-FILTERED: PUMP OR TUBING TUBING N FILTER SIZE: Filtration Equipment Type: DEPTH IN WELL (feet): MATERIAL CODE: DUPLICATE COLLECTED: SAMPLE INTENDED SAMPLING PUMP SAMPLE PRESERVATION EQUIPMENT FLOW SAMPLE CONTAINER SPECIFICATION AND/OR CODE RATE METHOD (ml/min) FINAL SAMPLE MATERIA PRESERVATIVE CONTAINER VOLUME ADDED IN FIELD ID CODE L CODE USED pH (mL) 8260P NA NA HCL 66 40 mL REMARKS: O = Other (Specify) MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify) RFPP = Reverse Flow Peristaltic Pump;

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%



NAME:	Cloud.	5					LOCATION:	1241	lon 4	Tri	los	0/4		
WELL NO	Cloud.	3			SAME	PLE ID:	LOCATION:				DATE	: -//-	14	
					PL	JRGIN	IG DATA							
WELL	ER (inches):	_	Vell Depth (fee		30	DEPT	SCREEN INTER	MA fee			et): / 24/		URGE PUM	
WELL VO	OLUME PURGE	E: 1 WELL V	OLUME = (To	OTAL W	ELL DEPTH	I – STA et –	TIC DEPTH TO	WATER) feet)	X WELL O	CAPAC	ITY gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1010	0	.16	25.68	-	7.19		87		7.97		1.81		CL	Hight

### SAMPLING DATA

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

	BY (PRINT)			SAMPLER(S) SIG	NATURE(S):		SAMPLING DATE:	SAMPLING	TIME:
Ville	in m E	- com		200	n		11-11-14	1010	
PUMP OF		1		TUBING MATERIAL CODE			FIELD-FILTERED: Filtration Equipment		LTER SIZE:
DUPLICA	TE COLLECTE	D: Y	N						
SAMI	PLE CONTAIN	ER SPECIFIC	CATION	SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	8		Komh	HCL	NA	NA	8260B	B	
REMARKS	S:								
MATERIA	L CODES: A	<b>G</b> ≈ Amber G	Glass; CG =	Clear Glass; PE	= Polyethylene;	PP = Polyprop	pylene; S = Silicone;	T = Teflon; O =	Other (Specify
SAMPLIN	G EQUIPMEN	T CODES:		Peristaltic Pump; erse Flow Peristaltic	(역급) (역급) (기업 기업 기업 기업 기업 기업 기업 기업 기업 기업 기업 기업 기업 기	P = Bladder P aw Method (T	ump; ESP = Electric ubing Gravity Drain);	Submersible Pump; O = Other (Specify	

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

SITE NAME: (	cloud-	5					SITE LOCATION	TAY	10-	ċ	TU	no 1	OK	H	
WELL NO	cloud-	15			SAMP	LE ID:						DATE	-11	-14	
					PU	RGING	G DAT								
WELL	R (inches):		Vell Depth (fee		25	WELL S	CREEN IN	TERVAL	et T	STATIC I			PL	URGE PUM	P TYPE
WELL VO	LUME PURGE	: 1 WELL V	OLUME = (T = (	OTAL WELL	DEPTH fee	- STAT	IC DEPTH	TO WATER	t) X t) X	WELL C	APACI	TY gailons	/foot	=	gailons
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	CONE (µS)	/\		DO ng/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1025															
			-												
			-												
			-			-			-						
									-						
WELLCA	APACITY (Gallo	ons Per Foot)	0.75" = 0.0	2: 1" = 0.0	1.2	5" = 0.06:	2" = 0.1	6: 3" = 0.	37: 4	" = 0.65	5"	= 1.02;	6" = 1.	47; 12" =	5.88
WELL OF	T AOTT (Can	3110 1 01 1 001)	0.70								90000	100			ENTRONO -
					SA	MPLIN	G DAT	Α							
SAMPLE	D BY (PRINT)			SAMPLE	R(S) SIG	NATURE(	S):		5.245	MPLING				LING TIME	
PUMP OF	JMP OR TUBING TU								FIEL	- //-/ _D-FILTE	RED:			2 ST	SIZE:
DEPTH IN	WELL (feet):	ED: Y	N	MATERIA	AL CODE	:			Filtr	ation Eq	uipmen	t Type;			
	SAMPLE CONTAINER SPECIFICATION				SAMP	LE PRESI	ERVATION	ı		INTEND ANALY: AND/O METHO	SIS IR	EQ	MPLIN UIPME CODE	IG INT	SAMPLE PUMP FLOW RATE ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESER			L VOL IN FIELD IL)	FINAL pH							
												1			

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = COMPLING EQUIPMENT CODES:

APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

REMARKS:

SITE NAME:	Clouds						OCATION:	Taylo	in 17	no	lest			
WELL NO	ma-1	6			SAMPI	LE ID:					9ATE	1-1	7	
					PU	RGING	DATA							
WELL	ER (inches):	Z Total W	ell Depth (fee	et):	25	2010/03/2010/03/2010	CREEN INTER			ER (fee	et):/8.9		URGE PUM R BAILER:	PTYPE
WELL VO	OLUME PURGE	: 1 WELL VO	DLUME = (T	OTAL WI	ELL DEPTH fee		IC DEPTH TO	WATER) feet)		APAC	ITY gallons	/foot	B	gallons
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	۵	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR

								(
	-							
								y ====
		-		-	-			

SAMPLING DATA

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

	BY (PRINT)	. 4.2		SAMPLER(S) SIG		7	SAMPLING DATE:	SAMPLING 925	TIME:
PUMP OF			2	TUBING MATERIAL CODE	1		FIELD-FILTERED: Filtration Equipment 1		LTER SIZE:
DUPLICA	TE COLLECTE	D: Y	N						
SAM	PLE CONTAIN	IER SPECIFIC	CATION	SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	46	Up mel	HCL	NA	NA	8260 B	B	
REMARK	g:								
INC. WOLLY	<b>o</b> .								
MATERIA	L CODES: A	AG = Amber G	Blass; CG =	Clear Glass; PE	= Polyethylene;	PP = Polypro	pylene; S = Silicone;	T = Teflon; O =	Other (Specify)
SAMPLIN	G EQUIPMEN	T CODES:		Peristaltic Pump; erse Flow Peristaltic		P = Bladder F aw Method (*	Pump; ESP = Electric Tubing Gravity Drain);	Submersible Pump; O = Other (Specify	

SITE NAME: (	Llouds						SITE LOCATION: /	TAYI	on il	no	Lote	s		
	me - 1	7			SAMP	LE ID:	SITE LOCATION: /	ı	*		DATE	-11-	-14	
					PU		IG DATA							
WELL	R (inches): 7	_	Vell Depth (fee		30	DEPT	SCREEN INTER	30 fee	STATIC E	ER (fee	et): 23.4	15 P	URGE PUM	
WELL VO	LUME PURGE	: 1 WELL V	OLUME = (TC = (	OTAL WE	ELL DEPTH fee	- ST/ et -	ATIC DEPTH TO	WATER) feet)	X WELL C	APAC	TY gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
9:10	0	.37	25.17		5,40		118		3.09		. 89		closs	STRONG

#### SAMPLING DATA SAMPLER(S) SIGNATURE(S): SAMPLING DATE: SAMPLING TIME: SAMPLED BY (PRINT) 910 FUMP OR TUBING 11-12-14 FILTER SIZE: TUBING FIELD-FILTERED: Filtration Equipment Type: DEPTH IN WELL (feet): MATERIAL CODE: DUPLICATE COLLECTED: SAMPLE PUMP INTENDED ANALYSIS SAMPLING FLOW SAMPLE PRESERVATION EQUIPMENT SAMPLE CONTAINER SPECIFICATION AND/OR CODE RATE METHOD (ml/min) TOTAL VOL FINAL SAMPLE MATERIA PRESERVATIVE VOLUME ADDED IN FIELD CONTAINER ID CODE LCODE USED pH (mL) HLL NA 8260D NA 6 Honk REMARKS: NO CAP PE = Polyethylene; S = Silicone; T = Teflon; O = Other (Specify) MATERIAL CODES: AG = Amber Glass; PP = Polypropylene; CG = Clear Glass; ESP = Electric Submersible Pump; BP = Bladder Pump; SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; O = Other (Specify) SM = Straw Method (Tubing Gravity Drain);

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

RFPP = Reverse Flow Peristaltic Pump;

VELL NO	Mw-	18			SAMPL		DATA		on i, 7		11-	10-	/4	
VELL DIAMETE	R (inches): 2		Vell Depth (fee	30	>	WELL SO	CREEN INTE	30 fe		ER (fee	et):25.0°	PL	RGE PUM BAILER	P TYPE
VELL VO	LUME PURGE	1 WELL V	OLUME = (TC = (	OTAL WELI	DEPTH fee	- STATI t-	C DEPTH TC	WATER: feet	) X WELL (	APAC	ITY gallons	foot	<b>E</b>	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
230		(galions)	24.73	3	5.79		349		1-72		218		CAN	STRO
VELL CA	PACITY (Gallo	ns Per Foot):	<b>0.75</b> " = 0.02	2; 1" = 0.	04; 1.25	5" = 0,06;	2" = 0.16;	3" = 0.3	37; 4" = 0.65	; 5"	= 1.02;	6" = 1.	47; <b>12"</b> =	= 5,88
AMPLE	D BY (PRINT)			CAMBIE		MPLIN	G DATA		SAMPLING	DATE		SAME	PLING TIME	
rillo	~ Ewily			TUBING	M	ACT ON E	12.		//-/2	1	4		C30	
EPTH IN	R TUBING NWELL (feet): TE COLLECTE	D: Y	0		AL CODE:	:			Filtration Eq				T IETE	VOIGL
SAM	PLE CONTAIN	ER SPECIFIC			SAMPI	LE PRESE	RVATION		INTENE ANALY AND/O	SIS	EQ	MPLIN JIPME CODE	IG NT	PUMP FLOW RATE (ml/min)
SAMPLE D CODE	# CONTAINER	MATERIA L CODE	VOLUME	PRESER		ADDED IN	FIELD	FINAL pH						, , , , , , , , , , , , , , , , , , , ,
	3	LU	Home	HC	L	NA		NA	8260	B		B		
EMARK		AP				,			***					

NAME: Clouds CHERROS		SITE LOCATION:	Taylon	i Tui	NoteH	
WELL NO: MW-19	SAMPLE ID:				11-10-14	

		Tatalla	full Dooth /for	40.	PU	_	CREEN INTER	2\/ΔΙ	STATIC	DEPTH	4	PI	JRGE PUM	P TYPE
WELL DIAMETEI	R (inches): 2		/ell Depth (fee			DEPTH:	20 feet to	30 fee	TO WATE	ER (fe	et)24.5		RBAILER:	
WELL VO	LUME PURGE:	1 WELL VO	DLUME = (TO = (	OTAL W	ELL DEPTH fee	- STAT t-	IC DEPTH TO	WATER) feet)	X WELL C	APAC	gallons	foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
270	(3)	(gairerie)	23.19		5.77		176		1.27		24-6		Class	87
												-		-
								$\Box$						
						-		-			-			-
				_		_		+ +						-
										-				

SAMPLED	BY (PRINT)			SAMPLER(S) SIG	MPLING DA'	VA 10150	SAMPLING DATE:	SAMPLING	TIME:
	- En	. Na		1	- N		11-13-14	1230	
PUMP OR		7		TUBING MATERIAL CODE			FIELD-FILTERED: Filtration Equipment	Y (N) FI	TER SIZE:
DUPLICA"	TE COLLECTE	D: Y	(N)						
SAMI	PLE CONTAIN	ER SPECIFI	CATION	SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	NTAINER L CODE VOLUME		PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	60	yoml	HCL	NA	NA	8260B	ØB	
REMARK	S;								
MATERIA	L CODES: A	G = Amber (	Glass; CG =	Clear Glass; PE	= Polyethylene;	PP = Polypro	ppylene; S = Silicone;	T = Teflon; O = 6	Other (Specify

SITE NAME:	Cloud	5					SITE LOCATIO	v: 7	27	1012 3	Two	) No	,LC	h	
	mw				SAMPI	E ID:		14	/		"	DATE	10-	14	
					PU	RGING	3 DAT	Α							
WELL	R (inches):	2	Vell Depth (fee	25		WELL S	CREEN fe	NTERV	5 fe	STATIC et TO WAT	ER (fee	t):232	8 P	URGE DUM R BAILER	TYPE
WELL VO	LUME PURGE	: 1 WELL V	OLUME = (TC = (	TAL WELL [	DEPTH fee		IC DEPT	N OT H	/ATER feet	X WELL C	CAPACI	TY gallons	s/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)		pH (su)	Δ	CON (μS	700	Δ	DO (mg/L)	۵	TURB IDITY (NTU)	Δ	COLOR	ODOR
130	,,,	13-17-17	22.41	5.	94		3/1			2.79		40		CL	ROW
													-		
							-								
							-		_				-		
			-				-								
WELL CA	APACITY (Gallo	ons Per Foot):	0.75" = 0.02	1" = 0.04	1.25	5" = 0.06;	2" = 0	16; 3	3" = 0,3	4" = 0.65	5" =	= 1.02;	6" = 1	.47; <b>12"</b>	= 5.88
						MPLIN		TA							
SAMPLE	DBY (PRINT)	EW'	Ma	SAMPLER(	(S) SIGI	NATURE(	S):			SAMPLING				PLING TIME	=;
	R TUBING N WELL (feet):			TUBING MATERIAL	CODE					FIELD-FILT Filtration Eq		t Type.C	)	FILTER	R SIZE:
DUPLICA	TE COLLECTE	D: Y	(n)									-11			SAMPLE
SAM	PLE CONTAIN	IER SPECIFIC	CATION		SAMP	LE PRES	ERVATIO	N		INTEND ANALY AND/O METHO	SIS	EQ	MPLII UIPME CODE	NG ENT	PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVA USED		ADDED	L VOL IN FIELD nL)		NAL DH						
	3	06	40 ML	HC		N	A	N	A	826	OB		B		

STABILIZATION CRITERIA

SAMPLING EQUIPMENT CODES:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass;

REMARKS:

PE = Polyethylene;

B = Bailer;

APP = After Peristaltic Pump; B = Barry BPP = Reverse Flow Peristaltic Pump;

PP = Polypropylene;

SM = Straw Method (Tubing Gravity Drain);

BP = Bladder Pump;

S = Silicone;

T = Teflon;

ESP = Electric Submersible Pump;

O = Other (Specify)

SITE NAME:	cloud	15					SITE LOCATION:	lAy	lon a	Tu	DATE	clt		
WELL NO	mL.	- <b>BEE</b> 2	2		SAMPL	LE ID:					11-	10-	14	
					PU	RGIN	G DATA							
WELL DIAMETE	ER (inches): 2		/ell Depth (fee	3	ව	DEPTH	CREEN INTER	30 fe	STATIC et TO WAT	ER (fee	26	8 PL	REALER	P TYPE
WELL VO	OLUME PURGE	: 1 WELL V	OLUME = (TC = (	OTAL W	ELL DEPTH fee	- STAT	IC DEPTH TO	WATER) feet)	X WELL C	CAPAC	gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
100	(3	(gallono)	22.54		5.65		217		1-15		(0.3		Class	PNI
WELL C	APACITY (Gallo	ons Per Foot):	0.75" = 0.02	: 1":	= 0.04; 1.2	5" = 0.06;	2" = 0.16;	3" = 0.3	7; <b>4"</b> = 0.65	5"	= 1.02;	6" = 1.	47; <b>12"</b> =	= 5.88
					CAI	MDI /A	IC DATA							
SAMPLE	D BY (PRINT).	am E	Ewing	SAM	PLER(S) SIGN		IG DATA		SAMPLING				PLING TIME	Ē)
	R TUBING N WELL (feet):	Will C	1	TUBI	NG ERIAL CODE:				FIELD-FILT Filtration Eq			)		R SIZE:
DUPLICA	ATE COLLECTE	ED: Y	(N)						r				1 6	SAMPLE
	IDI E CONTAIN						ERVATION		INTEND			MPLIN	IG	PUMP

SAMPLED	BY (PRINT).	am 1	Ewing	SAMPLER(S) SIG	NATURE(S):		11-10-14	900	
	TUBING WELL (feet):		2	TUBING MATERIAL CODE	:		FIELD-FILTERED: Filtration Equipment		ILTER SIZE:
DUPLICA.	TE COLLECTE	D: Y	N						
SAMI	PLE CONTAIN	ER SPECIFI	CATION	SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40 mL	HCL	N/A	NA	8260 B	(b)	
REMARK	] S:								
MATERIA	L CODES: A	G = Amber (	Glass; CG =	Clear Glass; PE	= Polyethylene;	PP = Polyprop	ylene; S = Silicone;	T = Teflon; O =	Other (Specif
AMPLIN	G EQUIPMEN	T CODES:		Peristaltic Pump; erse Flow Peristaltic		P = Bladder P aw Method (T	ump; ESP = Electric ubing Gravity Drain);	Submersible Pump O = Other (Specify	

NAME: (	locals	Che	Mare-			L	OCATION:	7410	, , , , , , , , , , , , , , , , , , ,	140	DATE:			
WELL NO:	mu-	23			SAMPL	E ID:					11-	10	14	_
					PUI		DATA							
WELL	R (inches): 2	Total W	ell Depth (feet	3.0		WELL S	CREEN INTER	RVAL 30 fee	STATIC I	DEPTH ER (fee	24.9	9 O	URGE PUMI R BAILER	PITYPE
WELL VO	LUME PURGE	: 1 WELL VO	DLUME = (TC = (	TĂL WE	LL DEPTH feet	- STAT	IC DEPTH TO	WATER) feet)	X WELL C	APAC	gallons	/foot	=	gallons
TIME	VOLUME PURGED	CUMUL. VOLUME PURGED	TEMP.	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1215	(gallons)	(gallons)	21.82		5.67		203		1.03		108		cL	5
										-	-	_		
												-		
								V.		-		-	-	-
												-		
	CAPACITY (Gal		V							_				5.00

				SAI	MPLING DAT	ΓΑ		SAMPLING	TIME:
SAMPLED	BY (PRINT)	Emi	na	SAMPLER(S) SIGI	NATURE(S):		SAMPLING DATE: 11-13-14	1215	
	TUBING WELL (feet):	- PW	119	TUBING MATERIAL CODE			FIELD-FILTERED: Y Filtration Equipment T	1 /	LTER SIZE:
	PLE CONTAIN		(N)	SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER	CONTAINER L CODE VOLUM	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40 ML	HCL	N/A	N/A	8260 B	В	
REMARK	(S:					1			
MATERIA	AL CODES: /	AG = Amber	Glass; CG =	Clear Glass; PE	= Polyethylene;	PP = Polypro		1 10110111	Other (Specif
MATERIA			APP = After	Clear Glass; PE Peristaltic Pump; verse Flow Peristaltic	B = Bailer; E	BP = Bladder I		T = Teflon; O = c Submersible Pump O = Other (Specific	);

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

ELL NO	Clouds Mw	25			SAMP	LE ID:		in i Tu		DATE	-/0	0-14	
					DI	RGING DA							
ELL AMETE	R (inches): 7	-	Vell Depth (fee	25	5.6	WELL SCREEN	NINTERVAL	STATIC I	ER (feet)	2160	) P	URGE PUM R BAILER	PTYPE
ELL VO	LUME PURGE	: 1 WELL V	OLUME = (T	OTAL WI		- STATIC DEP	fee	t) X WELL C	APACII	gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ (	OND. (S)	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
45			20.07		627	41.		.90		2.7Y		Claga	577
												-	
ELL CA	PACITY (Gallo	ns Per Foot):	0.75** = 0.02	2; 1" =	0.04; 1.2	5" = 0.06; 2" =	0.16; 3" = 0.	37; <b>4</b> " = 0.65	5" =	1.02;	6" = 1	.47; 12" :	= 5.88
			Dup.	3	SΔ	MPLING D	ΔΤΔ						
111-	BY (PRINT)			SAMP	LER(S) SIG	NATIORE(S):		SAMPLING	-14		8	LING TIME	
EPTH IN	R TUBING N WELL (feet): TE COLLECTE	D: Y	N	MATE	IG RIAL CODE	:		FIELD-FILT Filtration Eq	ERED: uipment	Y (N Type:		FILTER	( SIZE:
	PLE CONTAIN	0	242		SAMP	LE PRESERVAT	ION	INTEND ANALY AND/O	SIS	EQ	MPLII JIPME CODE	NG ENT	AMPLE PUMP FLOW RATE ml/min)
AMPLE CODE	# CONTAINER S	MATERIA L CODE	VOLUME		SERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	рн				_		
	3	66	Hom	HC		NA	NA	8260	OB	1	3		
					₩/)								
	S:												
EMARK													

	Clou	26			SAMPL	E ID:			ylon s		74	-16	14	
					PU	RGING	ΠΔΤΔ							
ELL ELL VO	R (inches):	2	Vell Depth (fee		0	WELL SCE DEPTH: / - STATIC	REEN INT	ERVAL o/UA fe O WATER	STATIC I to WAT X WELL C	ER (fee	1)22.9	50	URGE POM RBAILER:	P TYPE
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED	TEMP_(°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
410	(gallotis)	(gallons)	25.03		1.6(		95		3.88		12.7		Clari	ro
ELL CA	APACITY (Gallo	ns Per Foot):	0.75" = 0.02	2; 1" = 0.		A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA			17: 4 ³³ = 0.65	5" :	= 1.02;	6" = 1	.47; 12" =	= 5.88
UMP OF	D BY (PRINT)  A F F F F F F F F F F F F F F F F F F		N	TUBING	R(S) SIGN	/	DAT		SAMPLING // -1/- FIELD-FILTI Filtration Eq	/4 ERED:	YN	141	PLING TIME	
	PLE CONTAIN				SAMPI	LE PRESER	VATION		INTEND ANALY AND/O METHO	SIS OR	EQ	MPLI UIPMI CODE	NG ENT	SAMPLI PUMP FLOW RATE (ml/min
SAM	#	MATERIA L CODE	VOLUME		RVATIVE ED	TOTAL V ADDED IN F (mL)		FINAL pH						
SAMPLE CODE	CONTAINER S			HC	1	NA		NA	826	013	L	3		
AMPLE	20073 CANDON STATES	C6	York	110										

SITE NAME:	Cloud	S					LOCATION: /	Ayl	on i	7	wo 1	0	tc/4	
WELL NO	Cloud MV.	- 27			SAMP	LE ID:				177	DATE /	10-	14	
					PU	IRGIN	IG DATA							
WELL	R (inches): 7	_	Vell Depth (fee	3	30	WELL	SCREEN INTER	30 fee		ER (fee	et):/8.8	5 P	URGE PLIM BAILER:	
WELL VO	LUME PURGE	: 1 WELL V	OLUME = (TO = (	OTAL WE	LL DEPTH fee	- STA	ATIC DEPTH TO	WATER) feet)	X WELL C	CAPAC	ITY gallons	/foot	*	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
830			23.14		4.77		200		1.57		6.74		Clan	NO
							id							
						1		1 1			1	1		

SAMPLING DATA SAMPLING TIME: SAMPLER(S) SIGNATURE(S): SAMPLING DATE: SAMPLED BY (PRINT) 11-13-14 Ewina FIELD-FILTERED: FILTER SIZE: PUMP OR TUBING TUBING Filtration Equipment Typ MATERIAL CODE: DEPTH IN WELL (feet): DUPLICATE COLLECTED: N SAMPLE INTENDED SAMPLING EQUIPMENT ANALYSIS FLOW SAMPLE PRESERVATION SAMPLE CONTAINER SPECIFICATION AND/OR CODE RATE METHOD (ml/min) TOTAL VOL FINAL SAMPLE MATERIA PRESERVATIVE VOLUME ADDED IN FIELD CONTAINER ID CODE L CODE USED pH S 8260B 3 HCL 40 MI REMARKS: PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify) CG = Clear Glass; PE = Polyethylene; MATERIAL CODES: AG = Amber Glass; BP = Bladder Pump; ESP = Electric Submersible Pump; SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify) RFPP = Reverse Flow Peristaltic Pump;

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SITE LOCATION. TRYLOR & TWO NOTEH

WELL NO	me :	28			SAMPLE II	D:				11:0	10-1	<u> </u>	
					PURG	SING DAT	Α.						
WELL DIAMETE	R (inches): Z	_	Vell Depth (feet	30	W	EPTH: 15 fe	NTERVAL et to 3 d fe	STATIC TO WAT	ER (feet	19.7	PURG	E PUMP	TYPE
VELL VO	DLUME PURGE	: 1 WELL V	OLUME = (TO = (	TAL WELL DE	EPTH - feet -	STATIC DEPT	H TO WATER feet	R) X WELL C	APACII		/foot =		gallons
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (gallons)	TEMP. (°C)		H su)	Δ CON (μS	- A	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ C	OLOR	ODOR
315			20.44	4.	74	19	9	1.44		331	C	(me	NO1
IELL CA	APACITY (Gallo	ons Per Foot):	<b>0.75"</b> = 0.02;	1" = 0.04;	1.25" =	0.06; 2" = 0	.16; 3" = 0.3	37; <b>4"</b> = 0.65	5"=	1.02;	6" = 1.47;	12" =	5.88
					SAMD	LING DA	ТΔ						
1	DBY (PRINT)	m E	wing	SAMPLER(S				SAMPLING	-14		SAMPLIN 815	G TIME:	
EPTH I	R TUBING N WELL (feet): TE COLLECTE	ED: Y	(N)	TUBING MATERIAL (	CODE:			FIELD-FILT Filtration Eq		Y N	)	FILTER	SIZE.
5011 - 1510 - 151	IPLE CONTAIN				SAMPLE F	PRESERVATIO	N	INTENE ANALY AND/O	SIS	EQU	MPLING JIPMENT CODE		AMPLE PUMP FLOW RATE ml/min)
SAMPLE D CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVAT USED	TIVE A	TOTAL VOL DOED IN FIELD (mL)	FINAL pH						
	3	06	40ml	HCL		N/A	N/A	8260	B	1	<i>b</i>		
								+		-		_	

MATERIAL CODES: AG = Amber Glass;

SAMPLING EQUIPMENT CODES:

REMARKS:

SITE

NAME:

Clouds

PP = Polypropylene;

B = Bailer; BP = Bladder Pump; ESP = Elect Pump; SM = Straw Method (Tubing Gravity Drain);

PE = Polyethylene;

CG = Clear Glass;

APP = After Peristaltic Pump; B = B
RFPP = Reverse Flow Peristaltic Pump;

O = Other (Specify)

S = Silicone;

ESP = Electric Submersible Pump; avity Drain); O = Other (Specify)

SITE Clouds	SITE LOCATION: TAYLOR	5 Two NoteH
WELL NO: m -29	SAMPLE ID:	DATE: 10-14

					FU		DATA	21/41	STATIC	DEDTI	_	To	UDCERMA	DIVDE
WELL DIAMETEI	R (inches): 2		Vell Depth (fee		30	DEPTH:	CREEN INTER	30 fee	t TO WAT	ER (fe	et) 19 9	2 0	R FAILER	FIIFC
WELL VO	LUME PURGE:	1 WELL V	OLUME = (To = (	OTAL W	ELL DEPTH fee	- STAT	IC DEPTH TO	WATER) feet)	X WELL	CAPAC	ITY gallons			gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
800	(guilletie)	(gallolis)	20-17		5.86		172		1.46		186		Cleps	160
										-				
								$\vdash$		-	-			
								+						
								-			-			
										1				

	PRINT)	vina		SAMPLER(S) SIG	NATURE(S):		SAMPLING DATE: (1-13-14	SAMPLING 800	
PUMP OR	TUBING I WELL (feet):		6	TUBING MATERIAL CODE			FIELD-FILTERED: \(\) Filtration Equipment T		TER SIZE:
DUPLICA	TE COLLECTE	D: Y	(1)						
SAMI	PLE CONTAIN	ER SPECIFIC	CATION	SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	66	Yonk	MCL	NA	NA	8260 B	B	
REMARK	S.								
MATERIA	L CODES: A	G = Amber G	Blass; CG =	Clear Glass; PE	= Polyethylene;	PP = Polypro	pylene; S = Silicone;	T = Teflon; O =	Other (Specif

VELL		Total V	Vell Depth (feet)		PURGIN	G DATA		STATIC	DEPTH		PL	IRGE PUMI	P TYPE
DIAMETE	R (inches): 2		OLUME = (TO) = (	50	DEPTH	1:/5 fee	to30 fee	X WELL C			) OF	BAILER:	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ pH		CONE	Δ.	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
600	(3=110-110)	(galloris)	2292	5,5	rt	15	L	1.87		6.67		clm	57
							4						
ELL CA	PACITY (Gallo	ns Per Foot):	0.75" = 0.02;	1" = 0.04;	1.25" = 0.06	2" = 0.1	6; <b>3</b> " = 0.3	7; 4" = 0.65	5" =	1.02;	6" = 1.	47; 12" =	5.88
UMP OF	D BY (PRINT)  Am Em  R TUBING  WELL (feet):	Dup.	2				A	SAMPLING // - / - FIELD-FILTI Filtration Eq	-/4 ERED:	Y (N	16	PLING TIME	
UPLICA	TE COLLECTE		CATION	s	AMPLE PRES	ERVATION	ı	INTENE ANALY AND/O	SIS OR	EQU	MPLIN JIPME CODE	IG NT	AMPLE PUMP FLOW RATE ml/min
SAMPLE D CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATI USED	ADDED	AL VOL IN FIELD nL)	FINAL pH						263150111623
	3	46	LJOML	HCL		one	N4	820	,0		13		
-													

SITE NAME:	Cloud	5				1	OCATION:	Taylo	~ 9 To	w	Not	e H		
WELL NO	me	31			SAME	PLE ID:		1.50			DATE	10	14	
					PL	JRGIN	G DATA							
DIAMETE	R (inches):	2	Vell Depth (fee	7	35	WELL S	CREEN INTER	RVAL 35 fee	STATIC TO WAT	ER (fee	et) 26.3	6 P	URGE PUM R GAILER	
WELL VC	DECIVIE PORGE	. I WELL V	= (	JIAL VVI	fe	et –	IO DEI III IO	feet)	X	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1300	0	,,,	22.02		5.61		181		1.11		2.91		Clen	Slisas
								+		- N			-	
	_							-				-		
								+ +						
										-				-
										-	-			
										1				
WELL CA	APACITY (Gallo	ons Per Foot):	0.75" = 0.02	2; 1" =	0.04; 1.2	25" = 0.06;	2" = 0,16;	3" = 0.37	7: 4" = 0.65	5"	= 1.02;	6" = 1	.47; 12" =	² 5.88
					SA	MPI IN	IG DATA							
	D BY (PRINT)			E12020	LER(S) SIG				SAMPLING				PLING TIME	:
PUMP OF	AM E	wing		TUBIN					fIELD-FILT	ERED:	Y		300 FILTER	R SIZE:
	WELL (feet):	D: Y	(M	MATE	RIAL CODE	Ē:			Filtration Eq	uipmer	nt Type:			
4144 1-314416	PLE CONTAIN				SAMI	PLE PRES	ERVATION		INTEND ANALY AND/O	SIS OR	EQ	MPLII UIPME CODE	NG ENT	PUMP FLOW RATE

REMARKS: nell 5041 NO 04 T = Teflon; O = Other (Specify) MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; APP = After Peristaltic Pump; B = E RFPP = Reverse Flow Peristaltic Pump; B = Bailer; SAMPLING EQUIPMENT CODES: BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

TOTAL VOL ADDED IN FIELD

(mL) NA FINAL

NA

8260 B

PRESERVATIVE

USED

STABILIZATION CRITERIA

SAMPLE

ID CODE

CONTAINER

MATERIA

L CODE

66

VOLUME

HONL

pH:  $\pm$  0.2 units Temperature:  $\pm$  0.2 °C Specific Conductance:  $\pm$  5% Dissolved Oxygen:  $\pm$  0.2 mg/L or  $\pm$  10% Turbidity:  $\leq$  10 NTU or  $\pm$  10%

(ml/min)



SITE NAME:	Cloud	15					OCATION:	Tayl	ion it	as	Note	H		
WELL NO	mv	-32			SAMP	LE ID:			ion it		DATE	10.	-14	
					PU		DATA							
WELL		Total V	Well Depth (fe	et):		WELLS	CREEN INTE	RVAL	STATIC	DEPTI	1	P	URGE PUM	PTYPE
WELL VO	R (inches): OLUME PURGI	E: 1 WELL V	OLUME = (T	OTAL WELL	DEPTH	- STAT	/5 feet to IC DEPTH TO	WATER	eet TO WAT	ER (fe	et):23.1	60	REALLER	
	1	CUMUL	= (		fee	:t -		feet	) X		gallons	/foot	=	gallon
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
515			24.78		.53		229		1.23		2.11		Clema	57
										-				
VELL CA	PACITY (Gallo	ons Per Foot):	0.75" = 0.02	1" = 0.04	1; 1.25	" = 0.06;	2" = 0.16;	3" = 0.3	7; <b>4</b> " = 0.65;	5"	= 1.02;	6" = 1,	47; 12" =	5,88
AMPLED	BY (PRINT)			SAMPLER	SAN	/PLING	DATA		SAMPLING	DATE		C+145	THIS THE	
	on En	in		2			h.		1/-/2			SAIVIN ろ	LING TIME:	
UMP OR EPTH IN	TUBING WELL (feet):		· ·	TUBING MATERIAL					FIELD-FILTE Filtration Equ	RED:	YN	5	FILTER	SIZE:
UPLICA	TE COLLECTE	D: Y	(N)										1 07	MADL C
SAMF	PLE CONTAIN	ER SPECIFIC	ATION		SAMPL	E PRESEI	RVATION		ANALYS AND/OI METHO	SIS R	EQU	MPLIN IIPMEI ODE	G F NT F	AMPLE PUMP FLOW RATE nl/min)
AMPLE CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVA USED		TOTAL ADDED IN (mL)	FIELD FI	NAL pH						
	3	6	YomL	HcL		NA		VA	8260	B	13			
EMARKS											1			

SAMPLING EQUIPMENT CODES:

VELL NO	Cloud	33			SAMP	LE ID:	11014.	7	lon s	7 00	DATE	10	-14	
	_ <u>-</u> -												.,	
VELL	ER (inches):	Z Total V	Vell Depth (fee	et): 3	PU S	WELL SCRE	EN INTER	RVAL fe	STATIC TO WAT	DEPTH	1 et):24.6	S 0	URGE PUM	PTYPE
ELL VO	DLUME PURGE	1 WELL V	OLUME = (To	OTAL W	ELL DEPTH fee	- STATIC D	EPTH TO	WATER) feet)	X WELL	CAPAC	JTÝ gallons			gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP, (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
745			24.59		5.43	1	(1		1.26		3.63		Clega	SX
ELL CA	APACITY (Gallo	ons Per Foot):	0.75" = 0.02	! 2; <b>1"</b> =		5" = 0.06; 2"	1000 Paris (184 186	3" = 0.3	7; <b>4"</b> = 0.65	; 5"	= 1.02;	6" = 1	.47; 12" =	5.88
//// JMP OF	BY (PRINT)  R TUBING	viry		TUBIN	PLER(S) SIGN	NATURE(S):			SAMPLING	'Z -/	14	SAME	YS FILTER	
	N WELL (feet): TE COLLECTE	D: Y	0	MATE	RIAL CODE:				Filtration Eq	uipmen	t Type:			
CAM	PLE CONTAIN	ER SPECIFIC	CATION		SAMPI	LE PRESERV	ATION		INTEND ANALY: AND/O METHO	SIS OR	EQ	MPLIN UIPME CODE	NG ENT	AMPLE PUMP FLOW RATE nl/min)
SAM	#	MATERIA L CODE	VOLUME		SERVATIVE USED	TOTAL VOL ADDED IN FIE (mL)		INAL pH				_		
AMPLE	CONTAINER S			111	zL	NA	N	A	8260	13	1.	3	-	
AMPLE CODE	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	66	HOME	H	<i></i>									
AMPLE	S	C 6	HOML	# 6										
AMPLE	3	C 6	HOME	#										

SITE NAME:	Clou	ls				S	OCATION:	TAYlo	r a.	Tu	2/	orc	Н	
VELL NO	mu	34			SAMP	PLE ID:					DALE	-10	-14	
					PU	IRGINO	DATA							
VELL DIAMETE	R (inches): 2	2	Vell Depth (fee	3	5	DEPTH:	CREEN INT	o 35° fe	et TO W	IC DEPTH ATER (fee	et):25.4	9 PL	RGE PLIM	P TYPE
VELL VO	LUME PURGE	: 1 WELL V	OLUME = (TC ≈ (	OTAL WE		- STAT et -	IC DEPTH 1		X WEL	L CAPAC		s/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND.	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
425	0	2007	2467		4.88		156		1.5	)	10.1		Clim	S/-s
										_				
WELL CA	PACITY (Gallo	ons Per Foot):	0.75" = 0.02	; 1"=	0.04; 1.2	<b>5</b> " = 0.06;	2" = 0.16;	3" = 0.3	7; 4" = 0	65; <b>5"</b>	= 1.02;	6" = 1.	47; 12" =	5.88
					SAI	MPLIN	G DATA	A						
	BY (PRINT)			100000000000000000000000000000000000000	ER(S) SIG	NATURE(S	5):			NG DATE:	8 1		LING TIME	
UMP OR	TUBING WELL (feet):	7		TUBIN	G RIAL CODE	:			FIELD-FI	2-/ LTERED: Equipmen	Y	5	FILTER	SIZE:
UPLICAT	TE COLLECTE	D: Y	0						1					ARADY F
SAME	PLE CONTAIN	ER SPECIFIC	CATION		SAMP	LE PRESE	RVATION		ANA	NDED LYSIS D/OR THOD	EQ	MPLIN UIPME CODE	G NT	AMPLE PUMP FLOW RATE ml/min)
SAMPLE D CODE	# CONTAINER S	MATERIA L CODE	VOLUME		ERVATIVE ISED	TOTAL ADDED IN (ml	FIELD	FINAL pH					ì	
	3	16	40mL	Hc	L	NA	0	NA	826	OB		13		

STABILIZATION CRITERIA

SAMPLING EQUIPMENT CODES:

pH:  $\pm$  0.2 units Temperature:  $\pm$  0.2 °C Specific Conductance:  $\pm$  5% Dissolved Oxygen:  $\pm$  0.2 mg/L or  $\pm$  10% Turbidity:  $\leq$  10 NTU or  $\pm$  10%

APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)



VELL NO	Maw	-35			SAMP	LE ID:	CATION. 7	7	on ar		DATE	10	-14	
							CONSTRUCTION					, -		
		1	N 11 D 15 /5 -1			RGING	DATA REEN INTER	25/41	STATIC	DEDT		To	URGE PUM	B TVDE
VELL NAMETE	R (inches): 2	,	Vell Depth (feet	33	L DEPTH	DEPTH!	20 feet to	3 fe	et TO WAT	ER (fee	24.6	6 0	REALER	FITE
VELE VO	EOME TOTOL		= (	71712 ***		et –	, , , , , , , ,	feet)	X		gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP_ (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
330		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	24.68	4	5,29		164		.90		867		Clagr	57/
				-						-				
										1				
										1				1
VELL CA	PACITY (Gallo	ons Per Foot):	0.75" = 0.02;	1" = 0	.04; 1.2	5" = 0.06;	2" = 0.16;	3" = 0.3	7; <b>4"</b> = 0.65	5"	= 1.02;	6" = 1	.47; 12" =	- 5.88
VELL CA	PACITY (Gallo	ons Per Foot):	0.75" = 0.02;	; 1" = 0,				3" = 0.3	7; <b>4"</b> = 0.65	5"	= 1.02;	6" = 1	47; 12" =	= 5.88
AMPLED	BY (PRINT)		0.75" = 0.02;		SAI		DATA	3" = 0.3	SAMPLING	DATE:		SAM	PLING TIME	
AMPLED	BY (PRINT)		0.75" = 0.02;	SAMPLE	SAI ER(S) SIG	MPLING	DATA	3" = 0.3	SAMPLING	DATE:		SAMI	PLING TIME 多し	:
SAMPLED WILLIAM PUMP OR DEPTH IN	BY (PRINT)  R TUBING  I WELL (feet):	ring		SAMPLE	SAI ER(S) SIG	MPLING NATURE(S)	DATA	3" = 0.3	SAMPLING	DATE:	Y (N	SAMI	PLING TIME	:
SAMPLED WILLIAM PUMP OR DEPTH IN	BY (PRINT)	ring	0.75" = 0.02;	SAMPLE	SAI ER(S) SIG	MPLING NATURE(S)	DATA	3" = 0.3	SAMPLING //-/2 FIELD-FILT Filtration Ed	DATE: -/9 ERED: uipmen	Y N t Type:	SAMI 13	PLING TIME 30 FILTER	SAMPLE
SAMPLED WILLIAM DEPTH IN DUPLICAT	BY (PRINT)  R TUBING  I WELL (feet):	wirg	N)	SAMPLE	SAI ER(S) SIGI	MPLING NATURE(S)	DATA	3" = 0.3	SAMPLING	DATE: -/9 ERED: uipmen	Y N t Type:	SAMI	PLING TIME FILTER FILTER	SAMPLE PUMP FLOW RATE
AMPLED WILLIAM DEPTH IN DUPLICAT	D BY (PRINT)  R TUBING WELL (feet): TE COLLECTE  PLE CONTAIN	wirg	N)	SAMPLE TUBING MATERI	SAI ER(S) SIGI	MPLINC NATURE(S) : LE PRESER	S DATA  RVATION  OL FIELD	3" = 0.3	SAMPLING // -/2 FIELD-FILT Filtration Ec	DATE: -/9 ERED: uipmen	Y N t Type:	SAMI J3	PLING TIME FILTER FILTER	SAMPLE PUMP
AMPLEC  WITH OR  WHITH IN  WHITH IN  SAMP	D BY (PRINT) TUBING WELL (feet): TE COLLECTE PLE CONTAIN	ED: Y  ER SPECIFIC  MATERIA	CATION	SAMPLE TUBING MATERI	SAI ER(S) SIGN AL CODE SAMPI	MPLINC NATURE(S) : LE PRESER	RVATION  FIELD	·INAL	SAMPLING // -/2 FIELD-FILT Filtration Ec	DATE: -/9 ERED: uipmen DED SIS DR OD	Y N Type:	SAMI J3	PLING TIME FILTER FILTER	SAMPLE PUMP FLOW RATE
SAMPLED SAMPLE	D BY (PRINT)  R TUBING  WELL (feet): TE COLLECTE  PLE CONTAIN  #  CONTAINER  S	ER SPECIFIC	CATION	SAMPLE TUBING MATERI	SAI ER(S) SIGN AL CODE SAMPI	MPLINC NATURE(S) : LE PRESER  TOTAL ADDED IN (mL)	RVATION  FIELD	FINAL pH	SAMPLING // - / 2 FIELD-FILT Filtration Ed	DATE: -/9 ERED: uipmen DED SIS DR OD	Y N Type:	SAMI J3	PLING TIME FILTER FILTER	SAMPLE PUMP FLOW RATE
AMPLEC  WITH OR  WHITH IN  WHITH IN  SAMP	D BY (PRINT)  R TUBING  WELL (feet): TE COLLECTE  PLE CONTAIN  #  CONTAINER  S	ER SPECIFIC	CATION	SAMPLE TUBING MATERI	SAI ER(S) SIGN AL CODE SAMPI	MPLINC NATURE(S) : LE PRESER  TOTAL ADDED IN (mL)	RVATION  FIELD	FINAL pH	SAMPLING // - / 2 FIELD-FILT Filtration Ed	DATE: -/9 ERED: uipmen DED SIS DR OD	Y N Type:	SAMI J3	PLING TIME FILTER FILTER	SAMPLE PUMP FLOW RATE
AMPLEC  WMP OR  EPTH IN  UPLICAT  SAMPLE	D BY (PRINT)  R TUBING  WELL (feet): TE COLLECTE  PLE CONTAIN  #  CONTAINER  S	ER SPECIFIC	CATION	SAMPLE TUBING MATERI	SAI ER(S) SIGN AL CODE SAMPI	MPLINC NATURE(S) : LE PRESER  TOTAL ADDED IN (mL)	RVATION  FIELD	FINAL pH	SAMPLING // - / 2 FIELD-FILT Filtration Ed	DATE: -/9 ERED: uipmen DED SIS DR OD	Y N Type:	SAMI J3	PLING TIME FILTER FILTER	SAMPLE PUMP FLOW RATE

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump;

RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain);

B = Bailer; BP = Bladder Pump;

ESP = Electric Submersible Pump; Gravity Drain); O = Other (Specify)

	36				SAMPL	LE ID:			lon an		DATE //-/	0-	14	
					PU	RGINO	DATA							
	R (inches): 2	_	Vell Depth (fee	3	5	WELL S DEPTH: - STAT	CREEN INTE	35 fe	et TO WAT  X WELL C	ER (fe	et) 247	2 0	URGE PUM REAILER	P TYPE
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
200		(ganono)	24.14		4.81		134		1.44		17./		clea	57
						- 4								
										-				
WELL CA	PACITY (Gallo	ons Per Foot):	0.75" = 0.02	2; 1" = (	).04; 1.25	5" = 0.06;	2" = 0.16;	3" = 0.3	7; 4" = 0.65	5"	= 1.02;	6" = 1	47; 12" =	5.88
	BY (PRINT)			SAMPI	SAI ER(S) SIGN		G DATA		SAMPLING	DATE:		SAM	PLING TIME	
SAMPLED				2	NE				11-12	-/9		15	00	
WIND OR	TUBING WELL (feet):	ring	_	TUBING	RIAL CODE:				FIELD-FILTE Filtration Eq				FILTER	SIZE:
WIND OR DEPTH IN	TUBING		N											
PUMP OR DEPTH IN	TUBING WELL (feet):	ED: Y			RIAL CODE:		RVATION			ED SIS	sA EQU	MPLIN JIPME CODE	NG S	
PUMP OR DEPTH IN DUPLICATION SAME	TUBING WELL (feet): TE COLLECTE	ED: Y		MATER	RIAL CODE:		. VOL N FIELD	FINAL pH	INTEND ANALYS	ED SIS	sA EQU	MPLIN	NG S	AMPLE PUMP FLOW RATE
PUMP OR DEPTH IN DUPLICATION SAME	TUBING WELL (feet): TE COLLECTE PLE CONTAIN  # CONTAINER	ER SPECIFIC	CATION	PRESE U	SAMPL ERVATIVE	E PRESE	VOL N FIELD		INTEND ANALYS	ED SIS OR	sA EQL	MPLIN	NG ENT	AMPLE PUMP FLOW RATE
PUMP OR DEPTH IN DUPLICA	TUBING WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER S	ER SPECIFIC  MATERIA L CODE	VOLUME	PRESE U	SAMPL SAMPL ERVATIVE SED	LE PRESE TOTAL ADDED II	VOL N FIELD	pН	INTEND ANALYS AND/O METHO	ED SIS OR	sA EQL	MPLIN JIPME CODE	NG ENT	AMPLE PUMP FLOW RATE
PUMP OR DEPTH IN DUPLICATION SAME	TUBING WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER S	ER SPECIFIC  MATERIA L CODE	VOLUME	PRESE U	SAMPL SAMPL ERVATIVE SED	LE PRESE TOTAL ADDED II	VOL N FIELD	pН	INTEND ANALYS AND/O METHO	ED SIS OR	sA EQL	MPLIN JIPME CODE	NG ENT	AMPLE PUMP FLOW RATE

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump;

 APP = After Peristaltic Pump;
 B = Bailer;
 BP = Bladder Pump;
 ESP = Electric Submersible Pump;

 RFPP = Reverse Flow Peristaltic Pump;
 SM = Straw Method (Tubing Gravity Drain);
 O = Other (Specify)

VELL NO	Cloud				SAMPL	EID:	OCATION: /	AYIO	n i Tu	0 /	DATE:	-		
	mw3	/			SAMPL	E ID.					11-1	0-1	<i>Y</i>	
					PUF	RGING	DATA							
VELL VELL VO	R (inches): 7	2	Veil Depth (fee	3:	L DEPTH feet	DEPTH: - STATI	CREEN INTE  det to C DEPTH TO	35 fe	et TO WAT  X WELL C	ER (fee	124.8	7 0	JRGE PUMI R KAILER	P TYPE gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED	TEMP.	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
315	(gallons)	(gallons)	24.66	1	1-58		146		266		.76		Clean	Alis
								-						
/ELL CA	PACITY (Gallo	ons Per Foot):	0.75" = 0.02	; 1" = 0.0	70	10:			37; <b>4"</b> = 0.65	5"	= 1.02;	6" = 1.	47; <b>12"</b> =	5,88
						MPLIN	G DATA							
	BY (PRINT)			150	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	HATURE(S	S):		SAMPLING			SAME	LING TIME	:
UMP OR DEPTH IN	TUBING WELL (feet):	,	0	TUBING	R(S) SIGN AL CODE	ATURE(S	5):		SAMPLING //-/2 FIELD-FILTE Filtration Equ	- 八 RED:	YO	131	FILTER	
UMP OR EPTH IN	TUBING	,	<b>O</b>	TUBING	ty	ATURE(S	5):		//~/2   FIELD-FILTE   Filtration Eq	- /( RED: uipmen	Y (N t Type:	131	FILTER	SIZE:
PUMP OR DEPTH IN DUPLICA	TUBING WELL (feet):	D: Y		TUBING	AL CODE:		RVATION		/1-/2	RED:	Y N t Type:	131	FILTER	AMPLE PUMP FLOW RATE
UMP OR EPTH IN UPLICA SAMI	R TUBING N WELL (feet): TE COLLECTE PLE CONTAIN	D: Y		TUBING	SAMPL	E PRESE TOTAL ADDED IN	RVATION .VOL N FIELD	FINAL pH	//-/2 FIELD-FILTE Filtration Equ	RED:	Y N t Type:	MPLIN JIPME	FILTER	AMPLE PUMP FLOW RATE
UMP OR EPTH IN UPLICA SAMI	R TUBING N WELL (feet): TE COLLECTE PLE CONTAIN	ER SPECIFIC	CATION	TUBING MATERIA MATERIA	SAMPL EVATIVE ED	E PRESE	RVATION  VOL N FIELD)	FINAL	//-/2 FIELD-FILTE Filtration Equ	RED: Lipmen	Y N t Type:	MPLIN JIPME CODE	FILTER	AMPLE PUMP FLOW RATE
UMP OR EPTH IN UPLICA SAMI	R TUBING WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER S	ER SPECIFIC  MATERIA L CODE	CATION	TUBING MATERIA  PRESER USI	SAMPL EVATIVE ED	E PRESE TOTAL ADDED IN	RVATION  VOL N FIELD)	FINAL pH	//-/2 FIELD-FILTE Filtration Equ	RED: Lipmen	Y (N t Type:	MPLIN JIPME CODE	FILTER	AMPLE PUMP FLOW RATE
PUMP OR DEPTH IN DUPLICA	R TUBING WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER S	ER SPECIFIC  MATERIA L CODE	CATION	TUBING MATERIA  PRESER USI	SAMPL EVATIVE ED	E PRESE TOTAL ADDED IN	RVATION  VOL N FIELD)	FINAL pH	//-/2 FIELD-FILTE Filtration Equ	RED: Lipmen	Y (N t Type:	MPLIN JIPME CODE	FILTER	SIZE:  AMPLE PUMP FLOW

SAMPLING EQUIPMENT CODES:

B = Bailer; BP = Bladder Pump;

SM = Straw Method (Tubing Gravity Drain);

APP = After Peristaltic Pump;

RFPP = Reverse Flow Peristaltic Pump;

ESP = Electric Submersible Pump;

O = Other (Specify)

MELL NO	Cloud	- W			SAMPI	I E ID:		17/10	n i Tu	0010	DATE		,,	
WELL NO	mw	38_			SAIVIPI	LG 1D.				-	11-1	0-1	4	
					PU	RGING	DATA							
WELL DIAMETE	ER (inches):  CLUME PURGE	2_	Vell Depth (fee		35	DEPTH2	CREEN INTE	35 fe	STATIC TO WAT	ER (fee	et):26.1	7 º	URGE PUM REAILER	P TYPE
WELL VC	OLUME PURGE	: 1 WELL V	= (	JIAL WE		- STATE	C DEPIR IC		t) X WELL (	JAPAC	gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
240		(ganons)	24.53		4.81		72		6-47		3.14		C10-	Non
					111									
								-						
						- 4								
								-						
		<u>i</u>				-	_	-		-				
								+						
			1											
WELL CA	APACITY (Gallo	ons Per Foot):	<b>0.75"</b> = 0.02	1" =	J.04; <b>1.2</b> !	5" = 0.06;	<b>2"</b> = 0.16;	3" = 0.	37; <b>4"</b> = 0.65	; 5"	= 1.02;	6" = 1	.47; 12" =	5.88
					SAI	MPI INC	G DATA							
SAMPLE	D BY (PRINT)			SAMPL		NATURE(S			SAMPLING		2 1		PLING TIME	
1-1111	Mm EL	ulng			1							1	Z VÖ FILTER	0.75
711				MATER	SIAL CODE:	:			Filtration Eq			7	FILTER	SIZE.
DEPTH IN											_			AMPLE
DEPTH IN	TE COLLECTE	D: Y	0							_				
DEPTH IN			0.0000000000000000000000000000000000000		SAMPI	LE PRESEI	RVATION		INTENE ANALY AND/O METHO	SIS	EQI	MPLII JIPME CODE	INT	PUMP FLOW RATE
DEPTH IN	TE COLLECTE		0.0000000000000000000000000000000000000		SAMPI ERVATIVE ISED	TOTAL ADDED IN (mL	VOL FIELD	FINAL pH	ANALY AND/O METH	SIS DR DD	EQI	JIPME	INT	PUMP FLOW RATE
DEPTH INDUPLICA SAM SAMPLE	PLE CONTAIN  # CONTAINER	ER SPECIFIC	CATION		ERVATIVE ISED	TOTAL ADDED IN	VOL FIELD		ANALY AND/0	SIS DR DD	EQI	JIPME	INT	PUMP FLOW
DEPTH INDUPLICA SAM SAMPLE	PLE CONTAIN  CONTAINER  S	MATÉRIA L CODE	VOLUME	L	ERVATIVE ISED	TOTAL ADDED IN (mL	VOL FIELD	pН	ANALY AND/O METH	SIS DR DD	EQI	JIPME	INT	PUMP FLOW RATE
DEPTH INDUPLICA SAM SAMPLE	PLE CONTAIN  CONTAINER  S	MATÉRIA L CODE	VOLUME	L	ERVATIVE ISED	TOTAL ADDED IN (mL	VOL FIELD	pН	ANALY AND/O METH	SIS DR DD	EQI	JIPME	INT	PUMP FLOW RATE
DEPTH INDUPLICA  SAM  SAMPLE	PLE CONTAIN  CONTAINER  S	MATÉRIA L CODE	VOLUME	L	ERVATIVE ISED	TOTAL ADDED IN (mL	VOL FIELD	pН	ANALY AND/O METH	SIS DR DD	EQI	JIPME	INT	PUMP FLOW RATE
DEPTH INDUPLICA  SAM  SAMPLE	PLE CONTAIN  CONTAINER  S	MATÉRIA L CODE	VOLUME	L	ERVATIVE ISED	TOTAL ADDED IN (mL	VOL FIELD	pН	ANALY AND/O METH	SIS DR DD	EQI	JIPME	INT	PUMP FLOW RATE

SAMPLING EQUIPMENT CODES:

APP = After Peristaltic Pump;

 APP = After Peristaltic Pump;
 B = Bailer;
 BP = Bladder Pump;
 ESP = Electric Submersible Pump;

 RFPP = Reverse Flow Peristaltic Pump;
 SM = Straw Method (Tubing Gravity Drain);
 O = Other (Specify)

_	nw-3	,									171	10-		
					PU	RGING	DATA							
ELL	R (inches): Z	Total \	Vell Depth (fee	et): 3	5	WELL SO	CREEN INTE	RVAL	STATIC et TO WAT	DEPTH	ot): 2 7 'P		URGE PUM R BAILER	P TYPE
ELL VC	LUME PURGE	: 1 WELL V	OLUME = (TO			- STATI	C DEPTH TO	) WATER) feet)	X WELL (	CAPAC	ITY gallons	Sant No.		gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
30		(gametto)	23.07		5.84		117		1-43		.74		Llope	400
							<u> </u>							
								-		-				
						- 13		-						
		-						+			-			
			-											
			Ĭ.											
JMP OF	D BY (PRINT)  R TUBING  WELL (feet):	~ ing		TUBING	ER(S) SIG	NATURE(S	G DATA		SAMPLING //-/2- FIELD-FILT Filtration Eq	- <b>/4</b> ERED:	YG	11	PLING TIME 3 O FILTER	
	TE COLLECTE	D: Y	(W)											
SAM	PLE CONTAIN	ER SPECIFI	CATION		SAMP	LE PRESE	RVATION		INTENE ANALY AND/O METHO	SIS DR	EQ	MPLI UIPMI CODE	NG NT	SAMPLE PUMP FLOW RATE ml/min)
SAMPLE O CODE	# CONTAINER S	MATERIA L CODE	VOLUME		RVATIVE SED	TOTAL ADDED IN (mL	FIELD	FINAL pH						
	3	66	LIOML	Hcl		NA	-	NA	8260	13	-	B	-	
									(					
EMARK	S:													

				PU	RGING DA	TA						
VELL DIAMETER (inches): 2	-	Vell Depth (fee	35		WELL SCREET DEPTH: 20	feet to 35 f	STATIC eet TO WAT	ER (fee	t):27.0		URGE PUIV	P TYPE
VELL VOLUME PURGE:	1 WELL V	OLUME = (TC = (	OTAL WEL	L DEPTH feet			R) X WELL (	CAPAC	gailons	/foot	=	gallons
TIME VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Λ.	DND, ΔS)	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
45		21.63	•	5.84	1-	77	1.58		4.44		Close	Koh
ELL CAPACITY (Gallon												
	ns Per Foot):	<b>0.75</b> " = 0.02	; 1" = 0.	04; 1.25	" = 0.06; <b>2</b> " =	0.16; 3" = 0.	37; 4" = 0.65	5"	= 1.02;	6" = 1	.47; 12"	= 5.88
	ns Per Foot):	0.75" = 0.02		SAI	MPLING DA							
AMPLED BY (PRINT)  VIIIM M E~		0.75" = 0.02	SAMPLE	SAN R(S) SIGN	MPLING DA		37; 4" = 0.65  SAMPLING	DATE:		SAMI	PLING TIME	
AMPLED BY (PRINT)  WIMP OR TUBING DEPTH IN WELL (feet):	· <i>n</i>	0.75" = 0.02	SAMPLE	SAN R(S) SIGN	MPLING DA		SAMPLING	DATE:	Y (N	SAMI	PLING TIME	<b></b>
AMPLED BY (PRINT)  IMM E  UMP OR TUBING  EPTH IN WELL (feet):	D: Y	0	SAMPLE	SAIN ER(S) SIGN AL CODE:	MPLING DA	ATA	SAMPLING	DATE:  /  ERED:  uipmen  DED  SIS  DR	Y t Type:	SAMI	PLING TIME	E: R SIZE:
AMPLED BY (PRINT)	D: Y	0	SAMPLE	SAIR  R(S) SIGN  AL CODE:  SAMPL	MPLING DA	ATA	SAMPLING	DATE:  // ERED: uipmen  DED SIS DR OD	Y t Type:	MPLII DIPME	PLING TIME	SAMPLE PUMP FLOW RATE
AMPLED BY (PRINT)	D: Y  ER SPECIFIC	CATION	SAMPLE TUBING MATERIA PRESER	SAIR (S) SIGN AL CODE:  SAMPL  RVATIVE ED	MPLING DA	ON FINAL	SAMPLING	DATE:  // ERED: uipmen  DED SIS DR OD	Y t Type:	SAMI	PLING TIME	SAMPLE PUMP FLOW RATE
AMPLED BY (PRINT)  VILLO ME  UMP OR TUBING EPTH IN WELL (feet):  UPLICATE COLLECTED  SAMPLE CONTAINE  AMPLE CONTAINER S	D: Y  ER SPECIFIC  MATERIA L CODE	CATION	SAMPLE TUBING MATERIA PRESER US	SAIR (S) SIGN AL CODE:  SAMPL  RVATIVE ED	MPLING DA	ON FINAL pH	SAMPLING	DATE:  // ERED: uipmen  DED SIS DR OD	Y t Type:	MPLII DIPME	PLING TIME	SAMPLE PUMP FLOW RATE
SAMPLE CONTAINER  SAMPLE CONTAINER  SAMPLE CONTAINER  SOUD STAINER  SAMPLE CONTAINER  SOUD STAINER  SAMPLE CONTAINER  SOUD STAINER  SAMPLE CONTAINER  SOUD STAINER  SAMPLE CONTAINER  SOUD STAINER  SAMPLE SAMPLE  SAMPLE CONTAINER  SAMPLE SAMPLE	D: Y  ER SPECIFIC  MATERIA L CODE	CATION	SAMPLE TUBING MATERIA PRESER US	SAIR (S) SIGN AL CODE:  SAMPL  RVATIVE ED	MPLING DA	ON FINAL pH	SAMPLING	DATE:  // ERED: uipmen  DED SIS DR OD	Y t Type:	MPLII DIPME	PLING TIME	E:  R SIZE:  SAMPLE PUMP FLOW RATE
SAMPLE CONTAINER  SAMPLE CONTAINER  SAMPLE CONTAINER  SOUD STAINER  SAMPLE CONTAINER  SOUD STAINER  SAMPLE CONTAINER  SOUD STAINER  SAMPLE CONTAINER  SOUD STAINER  SAMPLE CONTAINER  SOUD STAINER  SAMPLE SAMPLE  SAMPLE CONTAINER  SAMPLE SAMPLE	D: Y  ER SPECIFIC  MATERIA L CODE	CATION	SAMPLE TUBING MATERIA PRESER US	SAIR (S) SIGN AL CODE:  SAMPL  RVATIVE ED	MPLING DA	ON FINAL pH	SAMPLING	DATE:  // ERED: uipmen  DED SIS DR OD	Y t Type:	MPLII DIPME	PLING TIME	E: R SIZE: SAMPLE PUMP FLOW RATE

NAME: Clouds

	Houds	41			SAMP	LE ID:				e Ti		DATE	10 -	14	
	1110	11										1112	, ,		
					PU	RGING	DAT	Δ.							
WELL DIAMETEI WELL VO	R (inches): 7	_	Vell Depth (fee VOLUME = (T) = (	3	SELL DEPTH	DEPTH:	CREEN IN 20 fee C DEPTH	to 35-	feet R)	TO WATE  X WELL CA	R (fee	1):26.9	9 0		TYPE
TIME	VOLUME PURGED	CUMUL. VOLUME PURGED	TEMP.	Δ	pH (su)	Δ	CONE (μS)	). A	1	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
630	(gallons)	(gallons)	2467		5.43		160			1.85		10		Clan	shir
									+		_				
						- 4			+						
									+						
									+						6
									-	and the second and the second					
		FER 1923 1931		2 1" =	D DA: 12						671	4 000		47. 499 -	
WELL CA	PACITY (Gallo	ons Per Foot)	: 0.75" = 0.02		0.04, 1.2	5" = 0.06;	2" = 0.1	6; 3" = 0	).37;	<b>4"</b> = 0.65;	5" =	= 1.02;	6" = 1.	47; 12" =	5.88
WELL CA	PACITY (Gallo	ons Per Foot)	: 0.75" = 0.02		SA	MPLIN	G DAT		).37;	4" = 0.65;	5" =	= 1.02;	6" = 1.	47; 12" =	5.88
SAMPLED	D BY (PRINT)		: 0.75" = 0.02			MPLIN	G DAT			SAMPLING [	DATE:		SAME	PLING TIME	
SAMPLED	D BY (PRINT)	Ewly	: 0.75" = 0,02	SAMPI	SAI LER(S) SIG	MPLIN	G DAT			SAMPLING I	DATE:		SAME		
SAMPLEC /// PUMP OR DEPTH IN	D BY (PRINT)  CTUBING WELL (feet):	Ewly		SAMPI	SAI LER(S) SIG	MPLIN	G DAT			SAMPLING [	DATE:	Y	SAME	PLING TIME	
SAMPLEC /// PUMP OR DEPTH IN	D BY (PRINT)	Ewly	(1)	SAMPI	SAI LER(S) SIG	MPLIN	G DAT			SAMPLING I	DATE:	Y N	SAMF	PLING TIME 3 CO FILTER	SIZE:
SAMPLED PUMP OR DEPTH IN DUPLICA	D BY (PRINT)  CTUBING WELL (feet):	Ewy	<b>®</b>	SAMPI	SAI LER(S) SIGI IG RIAL CODE	MPLIN	G DAT	·A		SAMPLING I	RED: ipmen	Y N t Type:	SAME	PLING TIME PLING TIME FILTER FILTER	SIZE:
SAMPLEC  PUMP OR DEPTH IN DUPLICATION  SAMI	D BY (PRINT)  TUBING  WELL (feet):  TE COLLECTE	Ewy	<b>®</b>	SAMPI Z TUBIN MATER	SAI LER(S) SIGI IG RIAL CODE	MPLIN	G DAT	·A		SAMPLING I	RED: ipmen	t Type:	SAME D MPLIN JIPME CODE	PLING TIME PLING TIME FILTER FILTER	SIZE: AMPLE PUMP FLOW RATE
SAMPLEC PUMP OR DEPTH IN DUPLICAT SAMI	D BY (PRINT)  R TUBING N WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER	Ewy ED: Y HER SPECIFIC MATERIA	CATION	SAMPI Z TUBIN MATER	SAI LER(S) SIG IG RIAL CODE SAMP	MPLIN NATURES LE PRESE TOTAL ADDED II	G DAT	FINAL		SAMPLING I	RED: ipmen	Y N t Type:	SAME D MPLIN JIPME CODE	PLING TIME PLING TIME FILTER FILTER	SIZE:  AMPLE PUMP FLOW RATE
SAMPLEC  PUMP OR DEPTH IN DUPLICATION  SAMI	D BY (PRINT)  R TUBING N WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER S	ED: Y  BER SPECIFIC  MATERIA L CODE	CATION VOLUME	SAMPI  TUBIN  MATEI  PRES	SAI LER(S) SIG IG RIAL CODE SAMP	MPLIN NATURES  LE PRESE TOTAL ADDED II (m)	G DAT	FINAL		SAMPLING I	RED: ipmen	t Type:	SAME D MPLIN JIPME CODE	PLING TIME PLING TIME FILTER FILTER	SIZE: AMPLE PUMP FLOW RATE
SAMPLET  PUMP OR  DEPTH IN  DUPLICAT  SAMI	D BY (PRINT)  R TUBING N WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER S	ED: Y  BER SPECIFIC  MATERIA L CODE	CATION VOLUME	SAMPI  TUBIN  MATEI  PRES	SAI LER(S) SIG IG RIAL CODE SAMP	MPLIN NATURES  LE PRESE TOTAL ADDED II (m)	G DAT	FINAL		SAMPLING I	RED: ipmen	t Type:	SAME D MPLIN JIPME CODE	PLING TIME PLING TIME FILTER FILTER	SIZE:  AMPLE PUMP FLOW RATE
SAMPLEC PUMP OR DEPTH ID DUPLICA SAMI	D BY (PRINT)  R TUBING N WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER S	ED: Y  BER SPECIFIC  MATERIA L CODE	CATION VOLUME	SAMPI  TUBIN  MATEI  PRES	SAI LER(S) SIG IG RIAL CODE SAMP	MPLIN NATURES  LE PRESE TOTAL ADDED II (m)	G DAT	FINAL		SAMPLING I	RED: ipmen	t Type:	SAME D MPLIN JIPME CODE	PLING TIME PLING TIME FILTER FILTER	SIZE: AMPLE PUMP FLOW RATE

SAMPLING EQUIPMENT CODES:

B = Bailer;

APP = After Peristaltic Pump;

RFPP = Reverse Flow Peristaltic Pump;

iller; BP = Bladder Pump; ESP = Electi SM = Straw Method (Tubing Gravity Drain);

ESP = Electric Submersible Pump; ravity Drain); O = Other (Specify)

	Cloud mu	12			SAMP	LE ID:			on = T		14-	10	-14	
					PU	RGING DA								
WELL DIAMETE	R (inches): 2	Total	Well Depth (fee	t): 3	5	WELL SCREE	N INTERV	S fee	STATIC et TO WAT	TER (fee	et):27.2	Z P	URGE PUM	PTYPE
WELL VO	LUME PURGE	: 1 WELL V	OLUME = (TC = (	OTAL W	ELL DEPTH fee	- STATIC DE	PTH TO W	/ATER) feet)	X WELL	CAPAC	ITY gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP_ (°C)	Δ	pH (su)	Δ	OND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOI
(S)			22.45		4-58		75-		5.40		40.9		Ulen.	NO
						1.0								
										_	-		-	-
										-				
WELL CA	APACITY (Gallo	ons Per Foot)	: <b>0.75</b> " = 0,02	; 1"=	= 0.04; <b>1.2</b>	5" = 0.06; 2"	= 0,16; 3	3" = 0.3	7; 4" = 0.69	5; 5"	= 1.02;	6" = 1	47; 12" :	= 5.88
		ons Per Foot)	: 0.75" = 0.02		SA	MPLING D		3" = 0.3						
SAMPLED Will,	D BY (PRINT)  R TUBING  N WELL (feet):		: <b>0.75</b> " = 0.02	SAMF	SAI PLER(S) SIG	MPLING D		<i>y"</i> = 0,3	7; 4" = 0.6:   SAMPLING	DATE	Y (N	SAM	PLING TIME	<u>:</u>
SAMPLEI	D BY (PRINT)	-i'y	: 0.75" = 0.02	SAMF	SAPLER(S) SIG	MPLING D		<i>y"</i> = 0.3	SAMPLING	DATE	Y (N	SAM	PLING TIME SO FILTER	E: R SIZE:
SAMPLEI Will, PUMP OF DEPTH IN DUPLICA	D BY (PRINT)  R TUBING  N WELL (feet):		®	SAMF	SAI PLER(S) SIG NG PRIAL CODE	MPLING D	ATA	3" = 0.3	SAMPLING	ERED QUIPMEN	Y N Type:	SAM	PLING TIME  FILTER  NG ENT	SAMPLE PUMP FLOW RATE
SAMPLE  SAMPLE  SAMPLE	D BY (PRINT)  R TUBING  N WELL (feet):  TE COLLECTE  PLE CONTAIN  #  CONTAINER  S		®	SAMF Z TUBIN MATE	SAI PLER(S) SIG NG PRIAL CODE	MPLING D NATURE(S):	DATA  TION  EIN P	NAL DH	SAMPLING // - /2 FIELD-FILT Filtration Ed  INTEN ANALY AND/ METH	DED OR	Y N N N N N N N N N N N N N N N N N N N	SAM J/ MPLI JIPMI CODE	PLING TIME  FILTER  NG ENT	SAMPLE PUMP FLOW RATE
SAMPLEI  SAM  SAMPLE	D BY (PRINT)  R TUBING  N WELL (feet): TE COLLECTE  PLE CONTAIN	D: Y  ER SPECIFIC  MATERIA	(N)	SAMP Z TUBIN MATE	SAI PLER(S) SIG	MPLING D NATURE(S):  LE PRESERVA  TOTAL VOL ADDED IN FIEL	TION	NAL DH	SAMPLING // - / 2 FIELD-FILT Filtration Ed	DED OR	Y N N N N N N N N N N N N N N N N N N N	SAM //	PLING TIME  FILTER  NG ENT	SAMPLE PUMP FLOW RATE
SAMPLEI	D BY (PRINT)  R TUBING  N WELL (feet):  TE COLLECTE  PLE CONTAIN  #  CONTAINER  S	ER SPECIFIC  MATERIA L CODE	CATION VOLUME	SAMP Z TUBIN MATE	SAI PLER(S) SIG NG RIAL CODE SAMP	MPLING D NATURE(S):  LE PRESERVA'  TOTAL VOL ADDED IN FIEL (mL)	DATA  TION  EIN P	NAL DH	SAMPLING // - /2 FIELD-FILT Filtration Ed  INTEN ANALY AND/ METH	DED OR	Y N N N N N N N N N N N N N N N N N N N	SAM J/ MPLI JIPMI CODE	PLING TIME  FILTER  NG ENT	SAMPLE PUMP

SAMPLING EQUIPMENT CODES:

APP = After Peristaltic Pump; B = Bar RFPP = Reverse Flow Peristaltic Pump;

B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

AME: Cloud	5				Si	CATION:	194/0	n iTuo	No	test			
/ELL NO: mw-				SAMP						DATE	11-11	4	
				PU	RGING	DATA				2.4200			
/ELL IAMETER (inches):	2	Vell Depth (fee	4	0	WELL SC	REEN INTER	40 fe	STATIC et TO WAT	ER (fe	et):27.6		URGE PUMI	TYPE
ELL VOLUME PURGI	E: 1 WELL V	OLUME = (TC = (	TAL WE	L DEPTH fee		DEPTH TO	WATER) feet	X WELL (	APAC	ITY gallons	/foot	=	gallons
TIME VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
100		23.83		4.72		163		5.71		2.17		Clam	NUN
VELL CAPACITY (Gall	ons Per Foot):	0.753 = 0.02	; 1" = 0	.04; 1.2	5" = 0.06;	2" = 0.16;	3" = 0.3	7; 4" = 0.65	; 5"	= 1,02;	6" = 1	.47; 12" =	5.88
AMPLED BY (PRINT)			SAMPL		MPLING			SAMPLING	DATE	: 1	SAMI	PLING TIME	į.
silly Ewing	NA		TUBING	ER(S) SIG	NATURE(S)			SAMPLING	ERED:	Y		PLING TIME	
AMPLED BY (PRINT)  JUMP OR TUBING  EPTH IN WELL (feet):  UPLICATE COLLECT	NA ED: Y	<b>®</b>	TUBING	ER(8) SIG	NATURE(S)		=	//-//-/5 FIELD-FILT Filtration Eq	ERED: uipmer	Y		FILTER	SIZE:
UMP OR TUBING DEPTH IN WELL (feet):	ED: Y	(1)	TUBING	IAL CODE	NATURE(S)	RVATION		//-//-/9	ERED: uipmer DED SIS DR	Y ont Type:		FILTER	SIZE:
UMP OR TUBING EPTH IN WELL (feet): UPLICATE COLLECT	ED: Y	(1)	TUBING MATER	IAL CODE	LE PRESEF	RVATION /OL I	FINAL pH	FIELD-FILT Filtration Eq INTENE ANALY AND/O METH	ERED: uipmer DED SIS DR OD	Y ont Type:	MPLIN	FILTER	AMPLE PUMP FLOW RATE
UMP OR TUBING DEPTH IN WELL (feet): UPLICATE COLLECT  SAMPLE CONTAINE  CONTAINER	NER SPECIFIC	CATION	TUBING MATER	SAMP  RVATIVE SED	LE PRESEF	RVATION /OL I		FIELD-FILT Filtration Eq	ERED: uipmer DED SIS DR OD	Y ont Type:	MPLIN	FILTER	AMPLE PUMP FLOW RATE
UMP OR TUBING EPTH IN WELL (feet): UPLICATE COLLECT  SAMPLE CONTAIN  GAMPLE CONTAINER SCODE S	NER SPECIFIC  MATERIA L CODE	CATION	TUBING MATER  PRESE	SAMP  RVATIVE SED	LE PRESEF	RVATION /OL I	рН	FIELD-FILT Filtration Eq INTENE ANALY AND/O METH	ERED: uipmer DED SIS DR OD	Y ont Type:	MPLII UIPME CODE	FILTER	AMPLE PUMP FLOW RATE
UMP OR TUBING EPTH IN WELL (feet): UPLICATE COLLECT  SAMPLE CONTAIN  GAMPLE CONTAINER SCODE S	NER SPECIFIC  MATERIA L CODE	CATION	TUBING MATER  PRESE	SAMP  RVATIVE SED	LE PRESEF	RVATION /OL I	рН	FIELD-FILT Filtration Eq INTENE ANALY AND/O METH	ERED: uipmer DED SIS DR OD	Y ont Type:	MPLII UIPME CODE	FILTER	AMPLE PUMP FLOW RATE

 APP = After Peristaltic Pump;
 B = Bailer;
 BP = Bladder Pump;
 ESP = Electric Submersible Pump;

 RFPP = Reverse Flow Peristaltic Pump;
 SM = Straw Method (Tubing Gravity Drain);
 O = Other (Specify)

					DI	IRGING	ב האד	۸						
VELL	R (inches): 2	20070270101	Vell Depth (feet	2000	31	WELL S	CREEN I	NTERVAL et to 3 L	STATIC feet TO WAT	TER (fee	124:2	) OF	IRGE PUMI R BAILER:	TYPE
VELL VC	LUME PURGE	: TWELL V	= (	JIAL WE		- 51A11	CUEFII	fee	et) X	CAFACI	gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	CON (μS	Α.	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
:15			23.90		4.18		126.8	1	6.47		. 83		cleac	Noi
														-
						-				<b>}</b>				-
						-								1
										-				
_						_								1
	D BY (PRINT)			SAMPL	SA LER(S) SIG	MPLIN		TA	SAMPLING				PLING TIME	
	TH ~ F	7		TUBIN	7				//- //- /		YCN	8:1	FILTER	SIZE:
EPTH IN	WELL (feet):	D: Y	(A)		RIAL CODE				Filtration Ed				751135576753	
	PLE CONTAIN				SAMP	LE PRESE	RVATIO	N	INTENI ANALY AND/	rsis Or	EQI	MPLIN JIPME CODE	IG NT	AMPLE PUMP FLOW RATE ml/min)
SAMPLE D CODE	# CONTAINER S	MATERIA L CODE	VOLUME		ERVATIVE JSED	TOTAL ADDED IN (ml	NFIELD	FINAL pH						
	3	C6	YouL	14	ch	10		NA	826	017	1	7		
EMARK														

	Cloud a	13					ION: TAY			L			
					PU	RGING DA							
VELL NAMETE	R (inches):	2	Vell Depth (fee	10	30	DEPTH: /5	N INTERVAL feet to づひ f	eet TO WAT	DEPTH ER (feet	22.6	7 0	URGE PUM	P TYPE
VELL VO	LUME PURGE	: 1 WELL V	OLUME = (T( = (	OTAL W	ELL DEPTH	- STATIC DE	TH TO WATER	R) X WELL ( et) X	CAPACIT	Y gallons		=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)		OND. (μS)	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
?3U	0		24.37		4.19	16	2	5.26		0.48		Clear	1000
											-		
								1			1		
WELL C	APACITY (Gallo	ons Per Foot):	0.75" = 0.02	2: 1" =	0.04; 1.2	5" = 0.06; 2" =	0.16; 3" = 0	37; 4" = 0.65	5; 5" =	1.02;	6" = 1	.47; 12" =	= 5.88
		ons Per Foot):	0.75" = 0.02		SA	5" = 0.06; 2" =  MPLING D  NATURE(S):		37; 4" = 0.65		1.02;		.47; 12" =	
SAMPLE	D BY (PRINT)	333,450,000 23-45	0.75" = 0.02		SA			SAMPLING	DATE:		SAM 8	PLING TIME	1
SAMPLEI		"' <del>'</del>	0.75" = 0.02	SAMP	SAPLER(S) SIG	MPLING D NATURE(S):		SAMPLING	DATE:	Y O	SAM 8	PLING TIME	1
SAMPLEI	D BY (PRINT)  An Fu R TUBING	<i>"</i>	0.75" = 0.02	SAMP	SA PLER(S) SIG	MPLING D NATURE(S):		SAMPLING	DATE:	Y O	SAM 8	PLING TIME : 30 FILTER	E: R SIZE:
SAMPLEI WILLOW PUMP OF DEPTH II DUPLICA	D BY (PRINT)  THE FOR  R TUBING  N WELL (feet):	Y	<b>©</b>	SAMP	SA PLER(S) SIG NG PRIAL CODE	MPLING D NATURE(S):	ATA	SAMPLING	DATE:  // ERED: uipment DED SIS DR	Y N Type:	SAM 8	PLING TIME 1.30 FILTEF	1
PUMP OF DEPTH II	D BY (PRINT)  A For  R TUBING  N WELL (feet):  TE COLLECTE	Y	<b>©</b>	SAMP TUBIN MATE	SA PLER(S) SIG NG PRIAL CODE	MPLING D NATURE(S):	ATA TION	SAMPLING //-//- FIELD-FILT Filtration Ed	DATE:  // ERED: uipment DED SIS DR	Y N Type:	SAM B MPLI UIPMI CODE	PLING TIME 1.30 FILTEF	SAMPLE PUMP FLOW RATE
EAMPLEI PUMP OP DEPTH II DUPLICA SAM	D BY (PRINT)  R TUBING N WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER	ER SPECIFIC	CATION	TUBIN MATE	SAI PLER(S) SIG PLER(S) SIG PLER(S) SIG PLER(S) SIG PLER(S) SIG	MPLING D NATURE(S):  LE PRESERVAT  TOTAL VOL ADDED IN FIELI	ATA  TION  FINAL	SAMPLING //-//- (* FIELD-FILT Filtration Ec	DATE:  // ERED: uipment DED SIS DR	Y N Type:	SAM B MPLI UIPMI CODE	PLING TIME 1.30 FILTEF	SAMPLE PUMP FLOW RATE
SAMPLEI SAMPLE SAMPLE	D BY (PRINT)  THE FINANCE OF THE CONTAIN  # CONTAINER  S	ER SPECIFIC  MATERIA L CODE	CATION	TUBIN MATE	SAI PLER(S) SIG NG IRIAL CODE SAMP	MPLING D NATURE(S):  LE PRESERVA  TOTAL VOL ADDED IN FIELI (mL)	ATA TION TINAL pH	SAMPLING //-//- (* FIELD-FILT Filtration Ec	DATE:	Y N Type:	SAM B MPLI UIPMI CODE	PLING TIME 1.30 FILTEF	SAMPLE PUMP FLOW RATE
SAMPLEI SAMPLE SAMPLE	D BY (PRINT)  THE FINANCE OF THE CONTAIN  # CONTAINER  S	ER SPECIFIC  MATERIA L CODE	CATION	TUBIN MATE	SAI PLER(S) SIG NG IRIAL CODE SAMP	MPLING D NATURE(S):  LE PRESERVA  TOTAL VOL ADDED IN FIELI (mL)	ATA TION TINAL pH	SAMPLING //-//- (* FIELD-FILT Filtration Ec	DATE:	Y N Type:	SAM B MPLI UIPMI CODE	PLING TIME 1.30 FILTEF	SAMPLE PUMP FLOW RATE

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

NAME:	Cloud.	<i>(</i>				LO	CATION:	144	160 : T	udi	DATE			
/ELL NO	: mu	46			SAMPI	LE ID:					11-1	11-1	4	
					PH	RGING	ΠΔΤΔ							
ÆLL IAMETE	R (inches):	7 Total V	Vell Depth (fe	et): _	75	WELL SC	REEN INTE		STATIC I				JRGE PUM	PTYPE
ELL VO	LUME PURGE	1 WELL V	OLUME = (T = (	OTAL WE	LL DEPTH fee		DEPTH TO	WATER; feet	X WELL C	APACI	TY gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
:45	0		24.75		3.86		1		6.62		.74		Clear	not
			-				9	4						
							141							
			3											
				-				-						
VLLE OF	APACITY (Gallo	113 1 61 1 001).	0.75 - 0.0.	-	100	MPLING		0 0,0						
	D BY (PRINT)		_	0-3-4-0-0-3-1-Ga	ER(S) SIGI	NATURE(S)			SAMPLING				LING TIME	
UMP OF	R TUBING N WELL (feet):	- Cong		TUBING					FIELD-FILTE	RED:		_	FILTER	SIZE:
	TE COLLECTE	D: Y	N	IVIATE	VIAL CODE	t			1 illiauon Equ	apmen	стурс.			
SAM	PLE CONTAIN	ER SPECIFIC	CATION		SAMP	LE PRESER	EVATION		INTEND ANALYS AND/O METHO	SIS IR	EQU	MPLIN JIPME CODE	IG NT	AMPLE PUMP FLOW RATE ml/min)
SAMPLE D CODE	# CONTAINER	MATERIA L CODE	VOLUME		ERVATIVE JSED	ADDED IN (mL)	FIELD	FINAL pH						
	3	6	Home	H	L	NA		MA	8260	B	B	3		
REMARK	S:								11/					
	S:	G = Amber G	Blass: CG =	Clear Gla	ass: PE:	= Polyethyle	ne: PP=	Polyprop	oylene; <b>S</b> = S	ilicone;	<b>T</b> = Te	flon;	O = Other	(Specif

VELL NO	nu -4	8			SAMPL	E ID:			on : To		DATE	1-19	1	
					PU	RGING	DATA		Lock	00	Fen	CF		
/ELL IAMETE	R (inches): 2		/ell Depth (fee		30	WELL SO	REEN INT	ERVAL 30 fee	STATIC et TO WAT	DEPTH ER (fee	et):	PU	RGE PUMI BAILER:	P TYPE
ELL VO	LUME PURGE:	1 WELL VO	OLUME = (T = (	OTAL WE	LL DEPTH fee	- STATIC	DEPTHT	O WATER) feet)	X WELL	CAPAC	TY gallons	foot :	-	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
						0.								
	PACITY (Gallor D BY (PRINT)	is Per Foot):	0.75** = 0.0			MPLING	DATA	_	SAMPLING				LING TIME	
EPTH IN	R TUBING N WELL (feet): TE COLLECTEI	D Y	N	TUBIN	G RIAL CODE				FIELD-FILT Filtration Ed				FILTER	R SIZE:
	PLE CONTAINE				SAMP	LE PRESEI	RVATION		INTENI ANALY AND/	SIS OR	EQ	MPLIN JIPME CODE	IG NT	PUMP FLOW RATE (ml/min)
SAMPLE D CODE	CONTAINER S	MATERIA L CODE	VOLUME		ERVATIVE JSED	ADDED IN (mL	FIELD	FINAL pH						
		- 1												
REMARK	S:													

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

SITE NAME: Clouds	SITE LOCATION:	
WELL NO: M4-49	SAMPLE ID:	DATE:

WELL DIAMETE	R (inches):	2	ell Depth (fee			DEPTH:		feet	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	ER (fee	et):	2.000	JRGE PUM R BAILER:	PTYPE
WELL VO	LUME PURGE	: 1 WELL VO	DLUME = (T	OTAL W	ELL DEPTH fee	- STAT	C DEPTH TO	WATER) feet)	X WELL C	CAPAC	ITY gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
													×	

#### SAMPLING DATA

SAMPLED	BY (PRINT)			SAMPLER(S) SIGI	NATURE(S):		SAMPLING DATE:	SAMPLING	TIME:
	TUBING WELL (feet):			TUBING MATERIAL CODE			FIELD-FILTERED: Filtration Equipment		LTER SIZE:
DUPLICA	TE COLLECTE	D: Y	N	*					
SAMI	PLE CONTAIN	ER SPECIFIC	CATION	SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
				-					
REMARK	S:								
MATERIA	L CODES: A	G = Amber G	Blass; CG =	Clear Glass; PE	= Polyethylene;	PP = Polypro	pylene; S = Silicone;	T = Teflon; O =	Other (Specify)
SAMPLIN	G EQUIPMEN	T CODES:		r Peristaltic Pump; verse Flow Peristaltic		P = Bladder F raw Method (*	Pump; ESP = Electric Tubing Gravity Drain);	Submersible Pump; O = Other (Specify	

SITE NAME:							OCATION:							
	mur	50			SAMP	LE ID:					DATE			
					PU	IRGIN	G DATA		Locke	1	Fenc	E		
WELL	R (inches):	Total W	/ell Depth (fe	et):		WELL S	SCREEN INTER	RVAL fee	STATIC TO WAT			11000	URGE PUM OR BAILER:	P TYPE
WELLVO	DLUME PURGE:	1 WELL VO	OLUME = (T = (	OTAL WEL	L DEPTH fee	- STAT	TIC DEPTH TO	WATER) feet)	X WELL (	CAPAC	TY gallons	/foot	±	galions
TIME	VOLUME PURGED (gallons)	CUMUL, VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
						- 9								

#### SAMPLING DATA

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLED	BY (PRINT)			SAMPLER(S) SIG	NATURE(S):		SAMPLING DATE:	SAMPLING	TIME:
PUMP OR DEPTH IN	R TUBING			TUBING MATERIAL CODE	:		FIELD-FILTERED: Filtration Equipment	A (UA) (A)	LTER SIZE:
DUPLICA	TE COLLECTE	D: Y	N	10.					
SAM	PLE CONTAIN	ER SPECIFIC	CATION	SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
REMARK	S:								
MATERIA	L CODES: A	G = Amber G	Glass; CG =	Clear Glass; PE	= Polyethylene;	PP = Polypro	pylene; S = Silicone;	T = Teflon; O =	Other (Specify)
SAMPLIN	G EQUIPMEN	T CODES:		r Peristaltic Pump; verse Flow Peristaltic		P = Bladder F raw Method (	Pump; ESP = Electric Tubing Gravity Drain);	O = Other (Specify	

	C1040	5				L	CATION: /	AY	lon 4	Ins	Nara	H		
WELL NO	Claud mv	-51			SAMP	LE ID:			lon is		PATE	10	-14	
					PI	IRGING					7000			
WELL VO	ER (inches): 2	_	Well Depth (fe	3 '	5=	WELL SO	CREEN INTE	3 C fe	STATIC ret TO WAT	DEPTH	1 2 42	9 P	URGE PUM P BAILER	PTYPE
OLLE V	SEOME FORG	C. IVVELL	= (	OTAL WEL	fee	- 51A11	J DEPIH TO		) X WELL	SAPAC	gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND: (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
12:40			22.66		4.13		109		2.58		2.42		66	N
						N .								
			-											
VELL CA	PACITY (Gallo	ons Per Foot):	0.75" = 0.02	; 1" = 0.0				3" = 0.3	7; <b>4"</b> = 0.65	5" =	: 1.02;	5" = 1.	47; 12" =	5,88
	PACITY (Gallo	ons Per Foot):	0.75" = 0.02		SAI	MPLING	DATA	3" = 0.3	7; 4" = 0.65					
SAMPLED WILLA PUMP OR	BY (PRINT)  ME  TUBING		0.75" = 0.02	SAMPLE	SAM R(S) SIGN		DATA	3" = 0.3	SAMPLING	DATE:	Y OI	SAMF	47; 12" =	
SAMPLED WILL A PUMP OR DEPTH IN	BY (PRINT)	-ing	0.75" = 0.02	SAMPLER	SAM R(S) SIGN	MPLING	DATA	3" = 0.3"	SAMPLING	DATE:	Y OI	SAMF	PLING TIME	
SAMPLED WILL A PUMP OR DEPTH IN DUPLICAT	D BY (PRINT) TUBING WELL (feet): TE COLLECTE	-ing	60	SAMPLE	SAN R(S) SIGN AL CODE:	MPLING	DATA	3" = 0.3	SAMPLING	DATE:	Y OT Type:	SAMF	FILTER  SIG INT	
SAMPLED WITH OR PUMP OR DEPTH IN DUPLICAT  SAMP	BY (PRINT)  TUBING WELL (feet):	-ing	60	SAMPLE	SAM R(S) SIGN L CODE: SAMPL	MPLING NATURE(S):  LE PRESER  TOTAL V ADDED IN F	OL F	3" = 0.3	SAMPLING FIELD-FILTE Filtration Equ	DATE:	Y OT Type:	SAMF	FILTER  SIG INT	SIZE:
SAMPLED WITH OR PUMP OR DEPTH IN DUPLICAT  SAMP	D BY (PRINT) TUBING WELL (feet): FE COLLECTE PLE CONTAIN	ER SPECIFIC	£D:	SAMPLEF TUBING MATERIA	SAMPL SAMPL	MPLING NATURE(S).  E PRESER TOTAL V	VATION OL FIELD F	INAL	SAMPLING FIELD-FILTE Filtration Equ	DATE: FRED: Jipment ED SIS R	Y OT Type:	SAMF 12 3 MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MP	FILTER  SIG INT	SIZE:
SAMPLED WILL PUMP OR DEPTH IN DUPLICAT	D BY (PRINT) TUBING WELL (feet): FE COLLECTE PLE CONTAIN  # CONTAINER S	ER SPECIFIC  MATERIA L CODE	EATION VOLUME	SAMPLES TUBING MATERIA	SAMPL SAMPL	MPLING NATURE(S):  LE PRESER  TOTAL V ADDED IN F (mL)	VATION OL FIELD F	INAL pH	SAMPLING  (	DATE: FRED: Jipment ED SIS R	Y Type:	SAMF 12 3 MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MPLIN MP	FILTER  SIG INT	SIZE:

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump;

B = Bailer; BP = Bladder Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

ESP = Electric Submersible Pump;

ITE AME: (	1040	15				S L	ITE OCATION:	TAY	10- 4,	Ju	op	w/1	17	
ELL NO:	Mw.	52			SAMP	LE 1D:					177-	10-	14	
					DII	RGING	DATA		DRO	/				
ELL	(inches): Z	Total V	Vell Depth (fe	et):	FU	_	CREEN INT	ERVAL	STATIC et TO WAT				JRGE PUM	P TYPE
ELL VOLU	UME PURGE:	1 WELL V	OLUME = (T = (	OTAL WE				TO WATER)	X WELL (			1		gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND.	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
	BY (PRINT)					MPLIN	G DAT		37; 4" = 0.65				PLING TIME	
	VELL (feet):			TUBIN	G RIAL CODE	3			FIELD-FILT Filtration Eq			U .	FILTER	R SIZE:
	E COLLECTE		N		SAMP	LE PRESE	RVATION		INTENI ANALY AND/O	'SIS OR	EQ	MPLIN UIPME CODE	IG NT	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE O CODE	CONTAINER S	MATERIA L CODE	VOLUME		ERVATIVE JSED	TOTAL ADDED IN (ml	FIELD	FINAL pH						
EMARKS:														

WELL NO:	nw-s	53			SAMPL	E ID:					DATE:	01	4	
	1.100										,,,,,			
					PU	RGING	DATA							
WELL DIAMETER	R (inches): 2		/ell Depth (fee	12	0	DEPTH:	CREEN INTER	20 feet	STATIC D	ER (fe	et)://.00	L PL	REALER	P TYPE
WELL VO	LUME PURGE:	1 WELL VO	DLUME = (TC = (	TAL WE	LL DEPTH fee	- STAT	C DEPTH TO	WATER) feet)	X WELL C	APAC	ITY gallons	foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
2:15			25.22		41.52		98		272		5.46		CL	Ro
										_				-
														+
				-										-
_														
														1
WELL CA	PACITY (Gallor	ns Per Foot):	0.75" = 0.02	; 1" =	0.04; 1.25	5" = 0.06;	2" = 0.16;	3" = 0.37;	4" = 0.65;	5"	= 1.02;	6" = 1.	47; 12" =	: 5.88
					SAI	MPLIN	G DATA							
SAMPLED	BY (PRINT)			SAMPL	ER(S) SIGI				SAMPLING		203		LING TIME	
Wills	TUBING FO	in		TUBIN	at	12			11-11-	14		5/2	:15	

	BY (PRINT)	בניינים		SAMPLER(S) SIG	NATURE(S)		3/-/1-/4	SAMPLING /2:15	
PUMP OF DEPTH IN	TUBING WELL (feet):	/		TUBING MATERIAL CODE			FIELD-FILTERED: Filtration Equipment		LTER SIZE:
	TE COLLECTE		CATION	SAMP	LE PRESERVATIO	)N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	6	40 mL	HCL	NA	NA	8260B	B	
REMARK	S:								
	L CODES: A	G = Amber T CODES:	APP = After	Clear Glass; PE Peristaltic Pump; verse Flow Peristaltic		PP = Polypro BP = Bladder F raw Method (		t = Teflon; O = c Submersible Pump; O = Other (Specify	

SITE TAVIAL 4 T. Net 4

	mu	3 1							lon 4-		1/6-4	0		
VELL		Total V	Vell Depth (fee	et):		WELL SC	DATA REEN INT		STATIC	DEPTH		PL	IRGE PUM	P TYPE
IAMETE	R (inches):		OLUME = /T/	OTAL W	17	DEPTH:	2 feet t	0 17 fe	et TO WAT	ER (fee	1)6.69	OF	RAILER	Y
VELL VC	LUME PURGE	. I WELL V	= (	JIAL W		et-	DEFITT	feet	) X	)AI AU	gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
135	0	(ganono)	22 46		6.21		417		4.24		11.4		Cler	ren
									-					-
										-				
										1				
														-
	D BY (PRINT)				LER(S) SIG			Ą	SAMPLING				LING TIME	
-1111	TUBING	ing		TUBIN	2000	7	/		/(-/(-	FRED:	Y (N	-	FILTER	SIZE.
EPTH IN	WELL (feet):	D: Y	(1)		RIAL CODE				Filtration Eq					
JOPLICA	TE COLLECTE		N	r					I INTENE	\			S	AMPLE
SAM	PLE CONTAIN	ER SPECIFIC	CATION		SAMP	LE PRESER	RVATION		ANALY AND/O METHO	SIS DR	EQU	MPLIN JIPME CODE	NT	PUMP FLOW RATE ml/min)
SAMPLE D CODE	# CONTAINER S	MATERIA L CODE	VOLUME		SERVATIVE USED	ADDED IN (mL)	FIELD	FINAL pH						
	3	66	yonk	H	cL	NG		NA	8260	13		3		

					DII	DOING DA	FA						
WELL DIAMETER	R (inches):	2	Vell Depth (feet	- 3	5-	WELL SCREEN DEPTH: 20 f	INTERVAL eet to 35 f		TER (fee	et): 24, 75		JRGE PUM	P TYPE
WELL VOL	.UME PURGE	: 1 WELL V	OLUME = (TC = (	TAL WELL D	DEPTH fee	- STATIC DEP		t) X WELL	CAPAC	TY gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)		pH (su)	Δ CO (μ	Α.	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
600		21-01	21.01	4.	61	18	3	197		2.46		CLA	KO
VELL CAP	PACITY (Gallo	ons Per Foot):	<b>0.75</b> " = 0.02;	1" = 0.04		5" = 0.06; 2" = 0		37; <b>4"</b> = 0.65	5; 5"	= 1,02;	6" = 1,	47; 12" =	= 5.88
SAMPLED	BY (PRINT)		<b>0.75"</b> = 0.02;	SAMPLER(	SAI S) SIGI	MPLING DA		SAMPLING	DATE:		SAME	PLING TIME	
SAMPLED WILL 9 PUMP OR DEPTH IN	BY (PRINT) TUBING WELL (feet):	wing			SAI S) SIGI	MPLING DA		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	DATE:	Y (N	SAMF		<b>.</b>
SAMPLED  WILLIAM  PUMP OR TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPPH IN TOPP	BY (PRINT) TUBING	w.'-7 D: Y	<b>8</b>	SAMPLER(	SAI S) SIGI	MPLING DA	TA	SAMPLING	ERED: quipmen	Y N Type:	SAMF	PLING TIME O U FILTER	<b>1</b> 3
SAMPLED  Jilia  PUMP OR  DEPTH IN 10  DUPLICATION  SAMPLE	BY (PRINT) TUBING WELL (feet):	w.'-7 D: Y	<b>8</b>	SAMPLER(	SAI S) SIGI CODE:	MPLING DA NATURE(S):  LE PRESERVATION  TOTAL VOL ADDED IN FIELD	TA	SAMPLING  FIELD-FILT Filtration Ed  INTENI ANALY AND/ METH	DED (SIS) OR	Y Type:	SAMF 16	PLING TIME O U FILTER	SAMPLE PUMP FLOW RATE
AMPLED  JII A  UMP OR  EPTH IN 1  UPLICATION  SAMPLE	BY (PRINT) TUBING WELL (feet): E COLLECTE LE CONTAIN	ER SPECIFIC	CATION	SAMPLER(  TUBING MATERIAL  PRESERVA	SAI S) SIGI CODE:	MPLING DA	DN FINAL	SAMPLING  FIELD-FILT Filtration Ed  INTENI ANALY AND	DED (SIS) OR	Y Type:	SAMP	PLING TIME O U FILTER	SAMPLE PUMP FLOW RATE
SAMPLED PUMP OR DEPTH IN DUPLICATION SAMPLE	BY (PRINT) TUBING WELL (feet): E COLLECTE LE CONTAIN  # CONTAINER S	ER SPECIFIC	CATION	SAMPLER( TUBING MATERIAL  PRESERVA USED	SAI S) SIGI CODE:	MPLING DA NATURE(S): LE PRESERVATION ADDED IN FIELD (mL)	DN FINAL pH	SAMPLING  FIELD-FILT Filtration Ed  INTENI ANALY AND/ METH	DED (SIS) OR	Y Type:	SAMF 16	PLING TIME O U FILTER	SAMPLE PUMP FLOW RATE
SAMPLED PUMP OR DEPTH IN DUPLICATI  SAMPLE D CODE	BY (PRINT) TUBING WELL (feet): E COLLECTE LE CONTAIN  # CONTAINER S	ER SPECIFIC	CATION	SAMPLER( TUBING MATERIAL  PRESERVA USED	SAI S) SIGI CODE:	MPLING DA NATURE(S): LE PRESERVATION ADDED IN FIELD (mL)	DN FINAL pH	SAMPLING  FIELD-FILT Filtration Ed  INTENI ANALY AND/ METH	DED (SIS) OR	Y Type:	SAMF 16	PLING TIME O U FILTER	SAMPLE PUMP FLOW RATE
SAMPLED  Jilia  PUMP OR  DEPTH IN 10  DUPLICATION  SAMPLE	BY (PRINT) TUBING WELL (feet): E COLLECTE LE CONTAIN  # CONTAINER S	ER SPECIFIC	CATION	SAMPLER( TUBING MATERIAL  PRESERVA USED	SAI S) SIGI CODE:	MPLING DA NATURE(S): LE PRESERVATION ADDED IN FIELD (mL)	DN FINAL pH	SAMPLING  FIELD-FILT Filtration Ed  INTENI ANALY AND/ METH	DED (SIS) OR	Y Type:	SAMF 16	PLING TIME O U FILTER	R SIZE:  SAMPLE PUMP FLOW RATE [ml/min]

STABILIZATION CRITERIA

SITE NAME

pH:  $\pm$  0.2 units Temperature:  $\pm$  0.2 °C Specific Conductance:  $\pm$  5% Dissolved Oxygen:  $\pm$  0.2 mg/L or  $\pm$  10% Turbidity:  $\leq$  10 NTU or  $\pm$  10%

					PU		DATA	The second second			NOT			
ELL IAMETÉ	R (inches): 2	-	ell Depth (fe		35	DEPTH:	CREEN INTI	75 fee	STATIC t TO WAT	ER (fee	et):	95,500,0	IRGE PUMI R BAILER:	P TYPE
ELL VO	LUME PURGE	: 1 WELL VO	DLUME = (T = (	OTAL WI	ELL DEPTH fee	- STAT	IC DEPTH T	O WATER) feet)	X WELL (	CAPACI	TY gallons	foot :	=1	gallons
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
	D BY (PRINT)					MPLIN	G DATA		SAMPLING			SAMP	LING TIME	
JMP OF	RTUBING			TUBIN	IG				FIELD-FILT	ERED:	Ÿ N		FILTER	SIZE:
	WELL (feet): TE COLLECTE	D: Y	N	MATE	RIAL CODE	;			Filtration Eq	uipmen	t Type:			
SAM	PLE CONTAIN	ER SPECIFIC	ATION		SAMP	LE PRESE			INTENE ANALY AND/O METHO	SIS DR	EQI	MPLIN JIPMEI CODE	G NT	AMPLE PUMP FLOW RATE ml/min)
AMPLE CODE	CONTAINER S	MATERIA L CODE	VOLUME		SERVATIVE USED	ADDED II	N FIELD	FINAL pH						

WELL NO	Cloud ma	-6	7		SAMP	LE ID:	CATION:		lon i	•	DATE	-1	2-14	
					PU	IRGING	DATA							
	R (inches):	2	Vell Depth (fee		35	WELL SC	REEN INTE	35 Te	STATIC et TO WAT	DEPTH ER (fe	1 et) 27, 22	8 PI	JRGE PUM R BAILER	P TYPE
VELL VC	DLUME PURGÉ	: 1 WELL V	OLUME = (TC = (	OTAL WE		- STATIC	DEPTH TO		X WELL C	CAPAC	ITY gallons	/foot	=	gallon
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	000
140			2223		5.15		103		5.90		1.61		Clega	moc
ELL CA	APACITY (Gallo	ns Per Foot):	<b>0.75"</b> = 0.02	; 1" = 0	.04; 1.2	5" = 0.06;	<b>2"</b> = 0.16;	3" = 0.3	7; <b>4</b> " = 0.65;	5"	= 1.02;	6" = 1.	47; <b>12"</b> =	5.88
AMPLET	D BY (PRINT)			SAMPLE		MPLING	DATA		SAMPLING	DATE:		SAME	LING TIME	
Willing OF	TUBING WELL (feet):	175		TUBING	the	af		_	/(-/2 -	/ <b>/</b>	Y	11	FILTER	
	TE COLLECTE	D: Y	0		,				1				0.	
SAMI	PLE CONTAIN	ER SPECIFIC	CATION		SAMP	LE PRESER	/ATION		INTEND ANALYS AND/O METHO	SIS R	EQI	MPLIN JIPME CODE	IG NT	AMPLE PUMP FLOW RATE ml/min)
SAMPLE D CODE	CONTAINER S	MATERIA L CODE	VOLUME	US	RVATIVE SED	TOTAL VI ADDED IN F (mL)	IELD	FINAL pH						
	3	66	YOML	He		NA		IA	8260	13	1	3		
_						-					_	_		

STABILIZATION CRITERIA

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass;

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump;

REMARKS:

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

BP = Bladder Pump;

SM = Straw Method (Tubing Gravity Drain);

PP = Polypropylene; S = Silicone; T = Teflon;

ESP = Electric Submersible Pump;

O = Other (Specify)

O = Other (Specify)

PE = Polyethylene;

RFPP = Reverse Flow Peristaltic Pump;

B = Bailer;

SITE

· LLL IIIO	カルー	70									DATE		7	
VELL	2	Total V	Vell Depth (feel	t):	PU 35	WELL S	CDEENLE	ITCDVAL	ST	ATIC DEP	26. 2	DI	JRGE PUM	P TYPE
VELL VO	R (inches): 2 LUME PURGE	: 1 WELL V	OLUME = (TC			- STAT	C DEPTH	110 WATE	eet TO R) X W et) X	ELL CAP	(feet):263 ACITY gallon	s/foot	R BAILER:	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP_ (°C)	Δ	pH (su)	Δ	CON (µS)	Α.	D( (mg		TURB IDITY (NTU)	Δ	COLOR	ODOF
620		(gallons)	22.00		4.96		119		1.3	5	18.7		Class	M
										-				
						-								
							-			- 4				-
			0.75" = 0.02											
	BY (PRINT)	7		SAMPI 2	ER(S) SIGN	WPLIN NATURE(\$	3):	ГА		PLING DAT			PLING TIME 20	
DEPTH IN	WELL (feet):		(N)		RIAL CODE:				Filtrati	on Equipn	nent Type:	צ		
	PLE CONTAIN				SAMPI	LE PRESE	ERVATIO	N.	A	ITENDED NALYSIS AND/OR METHOD		AMPLIN CODE	IG NT	AMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME		ERVATIVE JSED	TOTAL ADDED (m	N FIELD	FINAL pH						
	3	C6	YomL	He	L	10.		14	8	260 D	13			
REMARK									_					

VAME:	Cloud	05					TE OCATION	TA	1 101	1 4	7	no 1	VOT	c 14	
VELL NO:	Cloud	Pul	?-1		SAMPL	E ID:						DATE	10	-14	
					PH	RGING	DAT	Δ							
VELL	1.1	Total W	/ell Depth (feet)	):		WELLSO	REENIN	ITERVAL	S	TATIC D	EPTH	226	PI	JRGE PUM	P TYPE
DIAMETER	R (inches): 💆	1 10000 1 100	OLUME = (TO	5	)	DEPTH:	95 fee	to 50 fe	et T	O WATE	R (fee	t) <b>62.7.7.</b>	2 0	RAILER:	
VELL VOL	OME PURGE	1 WELL V	= (	5	O fee	t -	23.	12 feet	x.	16		gallons	/foot	= B	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	CONI (μS)	A	(m	g/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
145	0		2100		5.88		25-		. 8	57		78.1		cl	500
000	4	DRy	Ax	4	541										
015	8														
630	12														_
	- 4										-				
				_		-			-						
									1						
														N. Control	
			·		-				-				1	d d	
WELL CA	PACITY (Gallo	ns Per Foot):	<b>0.75</b> ⁿ = 0.02;	1"					2	no	At	60		X I	= 5.88
777.43	PACITY (Gallo					MPLIN	G DAT		SAN	N G	A+	60	SAMI	PLING TIME	
SAMPLED	BY (PRINT)			SAMI	SAI PLER(S) SIG	MPLIN	G DAT		SAN 11	PLING!	A F DATE:	6	SAMI	PLING TIME	: :
SAMPLED Wi	BY (PRINT)	ens Per Foot):		SAMI	SAI PLER(S) SIG	MPLING NATURE(S	G DAT		SAN //	N G	DATE:	6 C	SAMI	PLING TIME	::
SAMPLED PUMP OR DEPTH IN	BY (PRINT)	Ewi		SAMI	SAI PLER(S) SIGI	MPLING NATURE(S	G DAT		SAN //	PLING I	DATE:	6 C	SAMI	PLING TIME PLING TIME FILTER	E: R SIZE:
SAMPLED PUMP OR DEPTH IN DUPLICAT	BY (PRINT) TUBING TUBING	Ewi	ng	SAMI	SAI PLER(S) SIGI NG :RIAL CODE	MPLING NATURE(S	G DA1	Ā	SAN // FIEL Filtra	PLING I	DATE: RED: RED: RED SIS	Y Y Y SA	SAMI	PLING TIME PLING TIME FILTER	!:
SAMPLED PUMP OR DEPTH IN DUPLICAT	BY (PRINT) TUBING WELL (feet):	Ewi	ng	TUBI MATE	SAI PLER(S) SIGI NG :RIAL CODE	MPLINO NATURE(S	G DAT	Ā	SAM / FIEL Filtre	MPLING INTENDIANALYS AND/O METHO	PATE: RED: RED: RED: SIS R	Y It Type	SAMI	PLING TIME PLING TIME FILTER	SAMPLE PUMP FLOW RATE
SAMPLED PUMP OR DEPTH IN DUPLICAT  SAMPLE	BY (PRINT) TUBING WELL (feet): TE COLLECTE PLE CONTAIN	ER SPECIFIC	CATION	TUBI MATI	SAI PLER(S) SIGI NG ERIAL CODE SAMP	MPLING NATURE(S  : LE PRESE TOTAL ADDED IN	G DAT	FINAL	SAM / FIEL Filtre	PLING I	PATE: RED: RED: RED: SIS R	Y Y Y SA	SAMI	PLING TIME PLING TIME FILTER	SAMPLE PUMP FLOW RATE
SAMPLED PUMP OR DEPTH IN DUPLICAT SAMPLE	D BY (PRINT) TUBING WELL (feet): FE COLLECTE  PLE CONTAIN  CONTAINER S	ER SPECIFIC  MATERIA L CODE	CATION VOLUME	TUBI MATI	SAI PLER(S) SIGI NG ERIAL CODE SAMP	MPLING NATURE(S  : LE PRESE TOTAL ADDED IN	G DAT	FINAL pH	SAM / FIEL Filtre	MPLING INTENDIANALYS AND/O METHO	PATE: RED: RED: RED: SIS R	Y It Type	SAMI	PLING TIME PLING TIME FILTER	SAMPLE PUMP FLOW RATE
SAMPLED PUMP OR DEPTH IN DUPLICAT SAMPLE	D BY (PRINT) TUBING WELL (feet): FE COLLECTE  PLE CONTAIN  CONTAINER S	ER SPECIFIC  MATERIA L CODE	CATION VOLUME	TUBI MATI	SAI PLER(S) SIGI NG ERIAL CODE SAMP	MPLING NATURE(S  : LE PRESE TOTAL ADDED IN	G DAT	FINAL pH	SAM / FIEL Filtre	MPLING INTENDIANALYS AND/O METHO	PATE: RED: RED: RED: SIS R	Y It Type	SAMI	PLING TIME PLING TIME FILTER	SAMPLE PUMP FLOW RATE
SAMPLED PUMP OR DEPTH IN DUPLICAT SAMPLE	D BY (PRINT) TUBING WELL (feet): FE COLLECTE  PLE CONTAIN  CONTAINER S	ER SPECIFIC  MATERIA L CODE	CATION VOLUME	TUBI MATI	SAI PLER(S) SIGI NG ERIAL CODE SAMP	MPLING NATURE(S  : LE PRESE TOTAL ADDED IN	G DAT	FINAL pH	SAM / FIEL Filtre	MPLING INTENDIANALYS AND/O METHO	PATE: RED: RED: RED: SIS R	Y It Type	SAMI	PLING TIME PLING TIME FILTER	SAMPLE PUMP FLOW RATE

SAMPLING EQUIPMENT CODES:

APP = After Peristaltic Pump;

RFPP = Reverse Flow Peristaltic Pump;

B = Bailer; BP = Bladder Pump; ESP = Electr : Pump; SM = Straw Method (Tubing Gravity Drain);

ESP = Electric Submersible Pump; iravity Drain); O = Other (Specify)

	):	04-1			SAMPL	*			100 1		11-	10	1-14	
					PU	RGING								
VELL NAMETE	R (inches):	7 Total W	ell Depth (fee	t): _	70		REEN INTE		STATIC I	DEPTH ER (fee	11/5.4	20	URGE PLIMI R BAILER:	PTYPE
VELL VC	LUME PURGE	: 1 WELL VO	DLUME = (TC = (	TAL WE	LL DEPTH fee	- STATIC	5-42	WATER	) X WELL C	APAC	ITY gallons	-	5,51	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
450	0		23.65		6.23		94		1.18		7.46		Clean	10
500	4		22.58		9.43		113		2.51		_		Cloude	Ko
510	8	D	RY					IJ						
570	12													
	_													
							V							
						1 1		10						
VELL CA	APACITY (Gallo	ons Per Foot):	0.75" = 0.02	; 1"=	0.04; <b>1.2</b> 5	g» = 0.06;	<b>2"</b> = 0.16;	3" = 0.3	37; <b>4"</b> = 0.65	5"	= 1.02;	6" = 1	.47; 12" =	5.88
SAMPLEI	D BY (PRINT)  R TUBING N WELL (feet):	ons Per Foot):	0.75" = 0.02	SAMPL	SAI ER(S) SIGN	MPLING NATURE(S):	DATA		37; 4" = 0.65  PT 9  SAMPLING //-//- FIELD-FILTI Filtration Eq	DATE:	+ 6 Y N	SAMI		
SAMPLEI PUMP OF DEPTH IN	D BY (PRINT)		0.75" = 0.02	SAMPL	SAI ER(S) SIGN	MPLING NATURE(S):	DATA		PRY SAMPLING 11-11-	DATE:	+ 6 Y N	SAMI	9/ PLING TIME 20 FILTER	:: R SIZE:
SAMPLEI PUMP OF DEPTH IN DUPLICA	D BY (PRINT) R TUBING N WELL (feet):	ED:		SAMPL	SAI ER(S) SIGN G RIAL CODE:	MPLING NATURE(S):	DATA		PRY SAMPLING 11-11-	DATE:  PERED:  Uipmer  DED  SIS  DR	Y N nt Type:	SAMI	PLING TIME 20 FILTER	SAMPLE PUMP FLOW RATE
SAMPLEI PUMP OF DEPTH IN DUPLICA	D BY (PRINT)  R TUBING N WELL (feet): TE COLLECTE	ED:		SAMPL TUBINO MATER	SAI ER(S) SIGN G RIAL CODE:	MPLING NATURE(S):	DATA  EVATION		SAMPLING //-//- FIELD-FILTI Filtration Eq	DATE:  PERED:  Uipmer  DED  SIS  DR	Y N nt Type:	SAMI /S	PLING TIME 20 FILTER	SAMPLE PUMP
SAMPLEI  PUMP OF  DEPTH IN  DUPLICA  SAM  SAMPLE	D BY (PRINT)  R TUBING N WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER	ER SPECIFIC	P (N)	SAMPL TUBINO MATER	SAI ER(S) SIGN  G RIAL CODE:  SAMPL  ERVATIVE	MPLING NATURE(S):  LE PRESER  TOTAL V ADDED IN 6	OL FIELD	FINAL	SAMPLING //-//- FIELD-FILTI Filtration Eq	DATE:  PERED:  uipmer  DED  SIS  DR  DD	Y N Type:	SAMI /S	PLING TIME 20 FILTER	SAMPLE PUMP FLOW RATE
SAMPLEI  PUMP OF  DEPTH IN  DUPLICA  SAM  SAMPLE	D BY (PRINT)  R TUBING N WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER S	ER SPECIFIC  MATERIA L CODE	ATION VOLUME	SAMPL TUBING MATER	SAI ER(S) SIGN  G RIAL CODE:  SAMPL  ERVATIVE	MPLING NATURE(S):  LE PRESER  TOTAL V ADDED IN 6 (mL)	OL FIELD	FINAL pH	SAMPLING  //~ //~  FIELD-FILT!  Filtration Eq	DATE:  PERED:  uipmer  DED  SIS  DR  DD	Y N Type:	SAMI /S	PLING TIME 20 FILTER	SAMPLE PUMP FLOW RATE
SAMPLEI  PUMP OF  DEPTH IN  DUPLICA  SAM  SAMPLE	D BY (PRINT)  R TUBING N WELL (feet): TE COLLECTE  PLE CONTAIN  CONTAINER S	ER SPECIFIC  MATERIA L CODE	ATION VOLUME	SAMPL TUBING MATER	SAI ER(S) SIGN  G RIAL CODE:  SAMPL  ERVATIVE	MPLING NATURE(S):  LE PRESER  TOTAL V ADDED IN 6 (mL)	OL FIELD	FINAL pH	SAMPLING  //~ //~  FIELD-FILT!  Filtration Eq	DATE:	Y N N Type:	SAMI /S	PLING TIME 20 FILTER	SAMPLE PUMP FLOW RATE

STABILIZATION CRITERIA

pH:  $\pm$  0.2 units Temperature:  $\pm$  0.2 °C Specific Conductance:  $\pm$  5% Dissolved Oxygen:  $\pm$  0.2 mg/L or  $\pm$  10% Turbidity:  $\leq$  10 NTU or  $\pm$  10%



SITE NAME:	Claa	95				S	SITE .OCATION: /	TAYI	be i	14	NK	1st	-6	
WELL NO	Cloa	-2			SAMPL	E ID:					DATE	- ι	0-14	
	•				PU		3 DATA				70	dia	â.	
		2	Well Depth (fee	7	5	DEPTH	CREEN INTER	75 feet		ER (fee	0:44.8		JRGE PUNI BAILER	TYPE
WELL VO	DLUME PURGE	: 1 WELL V	OLUME = (TC	TAL WEL			C DEPTH TO	WATER) feet)	X WELL C		TY gallons	/foot	= 5	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1310	0		23.51		6.78		35		6.47	li .	1.08		(4	No
1320	5		23.24	1	7.11		63		5-85		359		L Land	10
133	10		23.35		6.52		71		4.84		976		Charly	NO
1340	15		23.43		6.63		74		4.90		-		CLOW!	16
-														
								1 1						

SAMPLING DATA

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

	BY (PRINT)	mein		SAMPLER(S) SIG			SAMPLING DATE: 1(-11-14	1340	TIME:
PUMP OF DEPTH IN	R TUBING N WELL (feet):		2	TUBING MATERIAL CODE			FIELD-FILTERED: 1		LTER SIZE:
DUPLICA	TE COLLECTE	D: Y	0						
SAM	PLE CONTAIN	ER SPECIFIC	CATION	SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	66	your	HCL	NA	IVA	8260 B	B	
REMARK	S:								
MATERIA	AL CODES: A	G = Amber G	Glass; CG =	Clear Glass; PE	= Polyethylene;	PP = Polypro	pylene; S = Silicone;	T = Teflon; O =	Other (Specify
SAMPLIN	IG EQUIPMEN	T CODES:		Peristaltic Pump; erse Flow Peristaltic		P = Bladder F raw Method (	Pump; ESP = Electric Fubing Gravity Drain);	Submersible Pump O = Other (Specify	

STABILIZATION CRITERIA

SITE

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

VELL	(inches): 2				SAMPL				n 17		111	0.		
IAMETER (	(inches): 2	Total 18												
NAMETER (	(inches): 2	Total M			PUI	RGING	DATA							
VELL VOLC	IME DI IDGE	ADVANCED COM	/ell Depth (feet	51	DEPTH	WELL SCF DEPTH: (	17 feet to	SZ fee	STATIC C TO WATE	R (fee	124.4	2 OF	RGE PUM	
	JIVIE PORGE.		= (	52	feet	- 24	1.42	feet)	× 16		gallons	/foot	4.5	gallons
	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND, (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOI
135	0	(ganono)	19.97	5	- 87	1	209		1.78		179		Clan	51
and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th	4.5		15.77	5	5.97		173		4 31		104		Clan	_
157	9		21.65		6.01		170		1.74		55.6		Clen	5/
200 1	17.5		20.99		6.03		175	2	1.58		178		cla	57
								-						
-								+			_			
			0.75" = 0.02				20 - 0 46	2" - 0.2	7: 4" - 0.65	5"	= 1.02	6" = 1	.47; 12"	= 5.88
WELL CAP	ACITY (Gallo	ons Per Foot):	0.75" = 0.02	; 1" = 0.					7, 4 = 0.00					
SAMPLED I	BY (PRINT)	r _{z.v.}		SAMPLE		MPLING NATURE(S):		Land Market	SAMPLING		COSTANCE OF		PLING TIME	
PUMP OR T DEPTH IN V	TUBING WELL (feet):		ing	TUBING MATERI	AL CODE:				FIELD-FILTI Filtration Eq	ERED:	Y FN	7		R SIZE:
DUPLICATI	E COLLECTE	D: Y	(N)							V 200000				SAMPLE
SAMPI	LE CONTAIN	ER SPECIFIC	CATION		SAMPI	LE PRESER	RVATION		ANALY AND/O METHO	SIS	EQ	MPLII UIPME CODE	NG ENT	PUMP FLOW RATE (ml/min
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME		RVATIVE	ADDED IN (mL)	FIELD	FINAL pH						
	3	CG	40 MU	H	ÇL	NI		N/A	826	OB		B		

SAMPLING EQUIPMENT CODES:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene;

APP = After Peristaltic Pump; B = B RFPP = Reverse Flow Peristaltic Pump;

B = Bailer;

PP = Polypropylene;

SM = Straw Method (Tubing Gravity Drain);

BP = Bladder Pump;

T = Teflon;

O = Other (Specify)

ESP = Electric Submersible Pump;

S = Silicone;

O = Other (Specify)

	Dw- L							lon in					
VELL		Tetal	Vell Depth (feet)		WELL SCRE		1	STATIC	DEPTH		PI	JRGE BUM	PTYPE
NAMETE	R (inches): 2		1	10	DEPTH:	feet to	fee	et TO WAT	ER (fee	t):3.45		BAILER:	)
VELL VO	LUME PURGE	: 1 WELL V	OLUME = (TO	TAL WELL DEPTH	= STATIC DE	PTH TO WA	feet)	X WELL C	APAGI	gallons/	foot	= 17	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
245	0	0	18.64	6.58	1	77		1.15		2.51		Clar	KO
05	17		19-29	6-63		146		2.86		538		clen	A
400	34									-			
			-										1
													1
						-							
			-			-							
		<u> </u>											
		ons Per Foot).	0.75" = 0.02;	SA	5" = 0.06; 2"  MPLING [		- 0.5	7; 4" = 0.65		= 1.02; (		47; <b>12"</b> =	
SAMPLED \n	DBY (PRINT)	1 Eu	ing	SAMPLER(S) SIG	NATURE(S):			SAMPLING				25	
	TUBING	UN	1119	TUBING MATERIAL CODE				FIELD-FILT	ERED:		-	FILTER	R SIZE:
	NWELL (feet): TE COLLECTE	D: Y	(1)	WATERIAL CODE				Filtrauon Eq	шрттеп	Гурск			
SAM	PLE CONTAIN	ER SPECIFIO	CATION	SAMP	LE PRESERVA	TION		INTENE ANALY AND/O	SIS DR	EQU	MPLIN JIPME CODE	IG INT	PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIEI (mL)	.D FINA							
	3	C6	40 ML	HCL	NIA	N/	A	8261	03		B		
_													
EMARK	N'												

AME:	Clouds	-			SAMPL	L	ITE OCATION:	1241	for + Tu	101	DATE	/	,	
VELL NO	Da-	2			O/NIVII L						11-6	0-1	<u>γ</u>	
					PU	RGING	DATA							
VELL NAMETE	R (inches):	7	Vell Depth (fee	1550 9	20	DEPTH:	GREEN INTE	70 fe	STATIC D to WATE	R (fee	t): 44.7	5 O	REALER	P TYPE
IELL VO	LUME PURGE		= (	70			4.75	feet)	× .16	)	gallons	/foot	= 4	gallons
TIME	VOLUME PURGED (gallons)	CUMUL, VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
340	0		24.59		6.52		123		2.63		11.1		cla	SI
350	4		22.66		6.17		158		2.87		_		Tan	Slis
400	8		27	(/								-		
410	12		DIC	7										
VELL CA	PACITY (Gallo	ns Per Foot):	0.75" = 0.02	1"=	0.04; 1.25	" = 0.06;	2" = 0.16;	3" = 0.3	7; <b>4"</b> = 0.65;	5"	= 1.02;	6" = 1	47; <b>12"</b> =	5.88
5200 per (	90-100-100-100-100-100-100-100-100-100-1		1195000				G DATA				=			
AMPLED ~ (11)	BY (PRINT)	vid		SAMPI	LER(S) SIGN				SAMPLING	DATE:			LING TIME	
PUMP OF DEPTH IN	R TUBING N WELL (feet): TE COLLECTE	,	N	MATE	G RIAL CODE:	(			FIELD-FILTE Filtration Equ				FILTER	R SIZE:
SAM	PLE CONTAIN	ER SPECIFI			SAMPL	E PRESE	RVATION		INTENDI ANALYS AND/OI METHO	SIS R	EQ	MPLII UIPME CODE	IG NT	AMPLE PUMP FLOW RATE ml/min)
SAMPLE D CODE	# CONTAINER S	MATERIA L CODE	VOLUME		ERVATIVE USED	TOTAL ADDED IN (ml	FIELD	FINAL pH						
	3	6	HomL	H	cL	NA	- 1	NA	8260	B	B			
					1									
REMARK	s: n	Ri	1 . 0	11 .	oent	Da								

SITE

SITE NAME: (	loud.	2				SI	TE CATION	TAY	ilan i	Tu	oli	bre	H	
WELL NO	Da-6	5			SAMPL	E ID:					DATE	10-	14	
WELL		Tatal	Vell Depth (fee	n#\=		RGING WELL SC		TEDVAI	STATIC	DEPTH		Pi	URGE PUM	P TYPE
DIAMETE	R (inches):	2	vei Deptii (iec	7	0	DEPTH:	5 fee	to 70e	et TO WAT	ER (fee	et):466	4 0	RBAILER:	
WELL VO	LUME PURGE	: 1 WELL V	OLUME = (To	OTAL WI	ELL DEPTH fee	- STATIO	6 4	TO WATER feet	× 16	APAC	ITY gallons	s/foot	= 4	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	CONE (μS)	D. A	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
200	0	1 19	22.21		6.86		8	7	4.04		40.9		20	ron
1210	4		1						in the					
1320	8		11/	2	-/									
230	12													
									2			_		
												_		
												$\vdash$		
										-		-	ļ	
											-	-	-	
										-		+-		
											-	+-	-	
										-		-		
									l	1	l			1
WELL CA	APACITY (Galle	ons Per Foot)	0.75" = 0.02	2; 1" =	0.04; 1.25	5" = 0.06;	2" = 0.1	6; 3" = 0.3	37; <b>4"</b> = 0.65	; 5"	= 1.02;	6" = 1	.47; 12"	= 5.88
					SAI	MPLING	DAT	Α						
	D BY (PRINT)			SAMP	LER(S) SIGN	NATURE(S)	ì		SAMPLING		1		PLING TIME	E:
Willia	R TUBING	ving		2	ith C	4/			11-12	-14	V (	12	FILTER	O CIZE:
	R TUBING N WELL (feet):			TUBIN	NG RIAL COD <b>≝</b>	1			FIELD-FILT Filtration Eq			,	FILTER	( SIZE.
	TE COLLECTI	ED: Y	0											
SAM	PLE CONTAIN	IER SPECIFI	CATION		SAMPI	LE PRESEF	RVATION		INTEND ANALY AND/O METHO	SIS	EQ	AMPLIN OUIPME CODE	NG ENT	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME		SERVATIVE USED	TOTAL ADDED IN (mL)	FIELD	FINAL pH						
	3	66	HOML	Ho	L	NA	- ]	NA	8260	B		B		
		-				1	1		10					

REMARKS T = Teflon; O = Other (Specify) MATERIAL CODES: AG = Amber Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; CG = Clear Glass;

B = Bailer; BP = Bladder Pump; ESP = Elect Pump; SM = Straw Method (Tubing Gravity Drain); ESP = Electric Submersible Pump; APP = After Peristaltic Pump; SAMPLING EQUIPMENT CODES: RFPP = Reverse Flow Peristallic Pump;

STABILIZATION CRITERIA

SITE NAME: Clouds	SITE LOCATION: TAYI	
WELL NO: DW-7	SAMPLE ID:	DATE: 11-14
	DUDOING DATA	

					PU	RGING	DATA							
WELL DIAMETER	R (inches): 2		/ell Depth (fee	4	55-	DEPTH:	CREEN INTER	ST fee		ER (fee	et): 24. 7		URGE PUM R KAILER	P TYPE
WELL VO	LUME PURGE	1 WELL VO	OLUME = (TC = (	OTAL W	ELL DEPTH fee	- STAT	4.79	WATER) feet)	X WELL C	APACI	TY gallons	/foot	= 5	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
035	0		2316		11.69		857		3.84		1.81		ch	Non
10 40	5		23.33		11.03		600		5.60		_		Cloudy	1
1050	10		23.04		16.42		185		8.08		-		cloray	4
11:03	15		22,91		76.61		184		7.99		_		Cloud	NUN

#### SAMPLING DATA

PUMP OF	TUBING WELL (feet):	-		TUBING MATERIAL CODE			FIELD-FILTERED: Y Filtration Equipment T	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	LTER SIZE:
2030-1000-	TE COLLECTE		CATION	SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (ml/min)	
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	6	Youl	HCL	NA	NA	826013	B	
REMARK	S:								
MATERIA	L CODES: A	G = Amber G	Glass; CG = (	Clear Glass; PE	= Polyethylene;	PP = Polypro	pylene; S = Silicone;	T = Teflon; O =	Other (Specify

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

	Du-9							TAY				16.			
WELL		Total M	/ell Depth (fee	4).	1	RGING WELL SC	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		STAT	IC DE	PTH		P	JRGE PUM	P TYPE
NAMETER	R (inches):	2		6	5	DEPTH: (	6 feet t	o 65 fe	et TOV	ATER	(feet)		14 01	REALER	
VELL VO	LUME PURGE	: 1 WELL V	DLUME = (TC = (	65	DEPTH feet	- STATIC	4. 44	feet)	x ./	L CAF	AGII	gallons/	foot	= 6.5	gallon
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP, (°C)		pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)		Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
1:45	0	22.10	2210	6	.03		58		1.4	8		8.64		(4	No
1:50	6.5		21.57	6	-01		44		1.1	-		1269		( (	AN
1:55	13		21.83		,08		41		2.9			53.9		CL	140
2:0)	19.5		21.80	6	.05		47		2.9	6		60.7		CL	No
WELL CA	PACITY (Gallo	ons Per Foot):	0.75" = 0.02	2; 1" = 0.04	1; 1.25	" = 0.06;	<b>2"</b> = 0.16	; 3" = 0.3	7; 4" = 1	0.65;	5" =	1.02;	6" = 1.	47; 12"	= 5.88
SAMPLED JIIV PUMP OF	BY (PRINT)	ons Per Foot):	0.75" = 0.02	SAMPLER TUBING	SAN (S) SIGN	MPLING	S DAT		SAMPL	ING DA	ATE:	Y	SAMI	PLING TIME	
SAMPLED VIII PUMP OF DEPTH IN	BY (PRINT)	Fully	0.75" = 0.02	SAMPLER	SAN (S) SIGN	MPLING	S DAT		SAMPL	ING DA	ATE:	Y	SAMI	PLING TIME	<u>:</u>
SAMPLED PUMP OF DEPTH IN DUPLICA	D BY (PRINT)  TUBING  WELL (feet)  TE COLLECTE	Fully ED: Y	0	SAMPLER TUBING	SAN (S) SIGN CODE:	MPLINC NATURE(S)	G DAT		SAMPL	ING DA	ATE:	Y Type:	SAMI	PLING TIME FILTER	<u>:</u>
SAMPLED PUMP OF DEPTH IN DUPLICA	D BY (PRINT)  R TUBING I WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER S	Fully ED: Y	CATION	SAMPLER  Z  TUBING MATERIAL  PRESERV USEI	SAMPL CODE: SAMPL ATIVE	MPLINC IATURE(S)	RVATION  VOL   FIELD	<b>A</b> FINAL pH	SAMPL  FIELD-F Filtration  INT AN AI ME	ING DA	ATE:	Y Type:	SAMI 1 2 MPLII DIPME CODE	PLING TIME FILTER	SAMPLI PUMP FLOW RATE
SAMPLEC SAMPLE SAMPLE	D BY (PRINT)  R TUBING I WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER	ED: Y NER SPECIFIC	CATION	SAMPLER TUBING MATERIAL	SAMPL CODE: SAMPL ATIVE	MPLING IATURE(S)  LE PRESER  TOTAL ADDED IN	RVATION  VOL   FIELD	<b>A</b>	SAMPL  FIELD-F Filtration  INT AN AI ME	ING DA	ATE:	Y Type:	SAMI 1 2 D	PLING TIME FILTER	SAMPL PUMP FLOW RATE

SAMPLING EQUIPMENT CODES:

B = Bailer;

APP = After Peristaltic Pump; B = B RFPP = Reverse Flow Peristaltic Pump;

BP = Bladder Pump;

SM = Straw Method (Tubing Gravity Drain);

O = Other (Specify)

ESP = Electric Submersible Pump;

VELL NO					SAMP	EID: F	31		ion i		16-	11-	14	
					PU	RGING [	ATA							
VELL DIAMETE	R (inches):	i caractura	Well Depth (fee			WELL SCRI	feet to	fee		ER (fee	et):	THE PROPERTY	JRGE PUM R BAILER:	P TYPE
VELL VO	LUME PURGE	: 1 WELL V	OLUME = (TO = (	OTAL WELL	DEPTH fee		EPTH TO	WATER) feet)	X WELL (	CAPAC	ITY gallons	/foot	=	gallon
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
														-
					-					+			-	-
										-				-
			-											
Mira.	D BY (PRINT)  Form R TUBING N WELL (feet):	7		SAMPLER TUBING MATERIA	tag		DATA		SAMPLING //- //- FIELD-FILT Filtration Eq	14 ERED:	Y	16	PLING TIME	
	TE COLLECTE	D: Y	1											SAMPLE
SAM	PLE CONTAIN	ER SPECIFI	CATION	SAMPLE PRESERVATION					INTENDED ANALYSIS AND/OR METHOD		EQI	SAMPLING EQUIPMENT CODE		PUMP FLOW RATE (ml/min)
SAMPLE D CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERV USE		TOTAL VO ADDED IN FII (mL)		INAL pH						
	3	CG	yomh	HCL		NA	K	A	8260	B	L	3		
											14			
REMARK	S:													

VELL NO	loud				SAMPLE ID: FB - 7			7	lon: Two Nor			DATE: -12-14			
					JANESESS COLO				//	10 11					
					PU	RGING	DATA								
VELL	R (inches):	Total	Well Depth (fer	et):		WELL SO	CREEN INTER	RVAL feet	STATIC TO WAT				PURGE PUMP TYP OR BAILER:		
VELL VO	LUME PURGE	: 1 WELL	VOLUME = (T = (	OTAL WE	ELL DEPTH fee	- STATI	C DEPTH TO	WATER) feet)	X WELL C	APAC		s/foot = gallor			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)		Δ	ρH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF	
WELL CA	PACITY (Gallo	ons Per Foot	): 0.75" = 0.03	2; 1" =	0.04; 1.2	<b>5"</b> = 0.06;	<b>2"</b> = 0.16;	<b>3"</b> = 0.37;	4" = 0.65	; 5"	= 1.02;	6" = 1.	47; 12" =	: 5,88	
					95070	manera descri	G DATA								

	BY (PRINT)	- (-)		SAMPLER(S) SIG	NATURE(S):		11-12-14	SAMPLING 164			
PUMP OF DEPTH IN	R TUBING N WELL (feet):		3	TUBING MATERIAL CODE	5		FIELD-FILTERED: Y N FILTER SIZE Filtration Equipment Type:				
DUPLICA	TE COLLECTE	D: Y	0								
SAM	PLE CONTAIN	LE CONTAINER SPECIFICATION			MPLE PRESERVATION  INTENDED ANALYSIS AND/OR METHOD  SAMPLING EQUIPMENT CODE						
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
	3	6	HOML	HCL	NA	NA	8260B	D			
REMARK	S:										
MATERIA	L CODES: A	G = Amber	Glass; CG =	Clear Glass; PE	= Polyethylene;	PP = Polypro	pylene; S = Silicone;	T = Teflon; O =	Other (Specify		
SAMPLIN	G EQUIPMEN	T CODES:		Peristaltic Pump; erse Flow Peristaltic		P = Bladder F aw Method (*	Pump; ESP = Electri Tubing Gravity Drain);	c Submersible Pump; O = Other (Specify			

WELL NO					SAMP	LE ID:	CATION: 7	3			11-1	13-	14	
					PU	RGING	DATA							
WELL DIAMETE	VELL Total Well Depth (feet):				DEPTH:	CREEN INTER	feet	STATIC TO WAT	ER (fee	et):	5753	PURGE PUMP TY OR BAILER:		
WELL VO	LUME PURGE	: 1 WELL VO	)LUME = (T	OTAL WE	ELL DEPTH fee	- STATI	C DEPTH TO	WATER) feet)	X WELL (	CAPAC	gallons.	/foot	F	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR

#### SAMPLING DATA

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLED	BY (PRINT)	do		SAMPLER(S) SIG	NATURE(S)		11-13 -14	SAMPLING 1645	TIME:
PUMP OF		,,)		TUBING MATERIAL CODE	1		FIELD-FILTERED: Filtration Equipment		LTER SIZE:
<b>DUPLICA</b>	TE COLLECTE	D: Y	N						
SAM	PLE CONTAIN	ER SPECIFI	CATION	SAMP	LE PRESERVATIO	)N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	6	York	HCL	IVA	NA	8260 B	B	
REMARK	S				i e				
MATERIA	AL CODES: A	G = Amber (	Glass; CG =	Clear Glass; PE	= Polyethylene;	PP = Polypro	pylene; S = Silicone;	T = Teflon; O =	Other (Specify)
SAMPLIN	G EQUIPMEN	T CODES:		Peristaltic Pump; verse Flow Peristaltic		RP = Bladder P raw Method (*	Pump; ESP = Electri Tubing Gravity Drain);	ic Submersible Pump; O = Other (Specify	

#### APPENDIX C

**Groundwater Laboratory Analytical Report** 





#### ANALYTICAL REPORT

#### CLIENT

Crawford Environmental Services 15 Church Ave, SW Roanoke VA 24011

## ATTENTION

Dan Fisher

# PROJECT ID Clouds Chevron

#### LABORATORY REPORT NUMBER

1411D32

**DATE** November 25, 2014

Primary Data Review By Secondary Data Review By

CAEKanhav Ashley Amick

Chantelle Kanhai Project Manager, Access Analytical Project Manager, AES aamick@axs-inc.com

#### PLEASE NOTE:

- Unless otherwise noted, all analysis on this report performed at Analytical Environmental Services Inc. (AES Inc), 3080 Presidential Drive, Atlanta, GA 30340.
- AES is SCDHEC certified laboratory # 98016, NCDENR certified lab # 562, GA certified lab # FL-E87582, NELAP certified laboratory # E87582
- Local support services for this project are provided by Access Analytical, Inc. Access Analytical is a
  representative of AES serving client in the SC/NC/GA areas. All questions regarding this report should be directed
  to your local Access Analytical representative at 803.781.4243 or toll fee at 883.315.4243

Project Work Order # 1410 3 & Access Analytical - Chain of Custody Record

LAB USE ONLY

(A/A) (N/A) (N/A) (A/A) Program Area Codes. CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking waters), SHW = Solid and Hazardous Wastes (for soils, ground waters and waste samples) Preservative Codes (place corresponding # in block above analysis field):
0 = None 1 = HCL, 2 = HCN, 3 = HSSO, 4 = NABOH, 5 = NASSO,
6 = Method 505s set wi NaHSO, & CHOH, 7 = NADH, FIZHOAC, 8 = H-PO. (if sample is a composite please use space below to note saur/finish times & dates) Phone: (803) 781-4243 Fax: 781-4303 ANALYTICAL, INC. Sample Temp, Upon Receipt (°C): "Matrix Codes (place corresponding code in matrix column);
GW = ground water, WWW = waste water, DW = dinkling water, S = soil,
SE = sludge, A = air, IW = industrial waste, WO = waste oil, OT = other (specify in comments socialon). NOTES / COMMENTS ပ္ပ ပ္ပ ပ္ပ ACCESS 2 www.axs-inc.com G = Glass, P = Plastic Samples Rec'd Laboratory ID: 7478 Carlisle Street Irmo, SC 29063 *Container Type: 9:30 Time 1115114 Date (mm-66-tv) ナー Access Quote # Received By: MOTH JAMPT + AATT P 3 <u>ହାର୭୪୫</u> lo *
contento
betodo
total
total
total
sistians Po % tanletor hetoallo i raq sispleor For a sixteen to the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the bo a radistico barrello: raq sirplens bo a manismon bassallon montali trafisms For a color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the ho * .

Solicino

Daysloo

Daysloo

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

Led |

L Container Type: (*see codes) † KEÖNEZLED IVB VAVIKZIZ: † Preservative: (*see codes) Relinquished By: Email: D Fisher@Crawfordenviornmental.com TOTAL # of contriber > 3 546 34369 59 Matrix: Program 7 (see codes) Area 0 Est シュクニ * O S D Company Name: Crawford Enviornmental 3 Date Time Type: Collected: Collected: (gab or 11/19/14 1700 G 11/1/14 1530 11 mid 1000 11/14/14 975 こうこう 113/4/620 Clouds Chevron 11174 8US 068 M/MI 11/11/11/19/19 Project Location: 01/0 /m/21/11 く A Zip: Other Ave × sc Billy Ewing S Phone: 540 343 6356 Fax: (specify) Report To: Dan Fisher is Child Ro anoke State: emailed/faxed by end of business day on date required) MIN 45 THE ME Turnaround Time: (For rush work, results 下のシ Mil is 下のイ Sample ID/Description 2 2 5 *Date Required: Sales Order # 3 X Standard Sampled By: RUSH* Project ID: Address: City: Page 2 of 86

See Reverse for Terms and Conditions

Original Copy - Returned w/Report Yellow Copy - Access File Copy Pink Copy - Client Copy

LAB USE ONLY

Project Work Order # 141

(Z/A) (N/A) (Z/A) (N/A) *Program Area Codes: CWA = Clean Water Act (for wastewaters), SDWA = Sere Drinking Water Act (for drinking waters), SHW = Solid and Hazardous Wastes (for solis, ground waters and waste samples) *Proservative Codes (place corresponding # in block above analysis field): 0 = None, 1 = HCL, 2 = HNOs, 3 = H.SO., 4 = NaOH; 5 = NaS.SO., 6 = Method 5035 set w/ NaHSO. & CHOH. 7 = NaOH/ZnOAC, 8 = H.PO. (if sample is a composite please use space below to note saur/finish times & dates) Phone: (803) 781-4243 Fax: 781-4303 ANALYTICAL, INC. *Matrix Codes (place corresponding code in metrix column);
GW = ground water, WW = waste water, DW = drinking water, S = soli.
St= subgo, A = air, IW = industrial waste. WO = waste oil, OT = other (specify in comments section). Sample Temp, Upon Receipt (°C): NOTES / COMMENTS <u>ဂ</u> ် ACCESS 0 www.axs-inc.com G = Glass, P = Plastic Samples Rec'd Laboratory ID: 7478 Carlisle Street Irmo, SC 29063 Container Type: 9:30 Time (24HR) Date mm-dd-w) Access Quote Received By: M+3MAT+AA1 S 2100 88 lo a nsvisim batsšim tatsšim irvisims lo t nadistoo betralloo i rej tierlans James tota Potisto Potralio Pot Potrista lo le natistro lensilo red ted serfiere lo te bansho radistan radistan bo to consistence beto-fice to the file to a radiation barosilon teq teq actians lo * confision boroslon profision sierlans lo to noistor lettello: lettello: seglecis a of consisted absorbal per per per per per Container Type: (*see codes) † KEÖNEZLED FYB YMYFKZIZ: † Preservative: (*see codes) Relinquished By: Email: Dfisher@ crawford enviornmental.com TOTAL * of containers **(**1) Phone: 540 343 6256 Fax: 540343 6259 Ollected: Collected: (condo) Arra Say # O 3 方でいるであるよる 340E S "10uds Chevron ల [[w]ng 0001 11/11/11 120 1300 27 27 14/4 508 32 18 11 hall 620 016141211 Project Location: Other 15 Church And Xsc S (specify) Rognoke VA <u>-</u> -<u>7</u> -<u>3</u> 7 7 ج ا ا Report To: Dan Fisher Company Name: Company Name: emailed/faxed by end of business day on date required) Turnaround Time: N 36 をいれて (For rush work, results FC MM ST ME NN 67 NW 70 NW 104 MNW 38 NE SO INW 31 Sample ID/Description *Date Required: Sales Order # Standard Sampled By: RUSH* Address: City: Page 3 of 86

See Reverse for Terms and Conditions

Original Copy - Returned w/Report Yellow Copy - Access File Copy Pink Copy - Client Copy

コナー # Project Work Order # Access Analytical - Chain of Custody Record

LAB USE ONLY

(N/A) (N/A) (N/A) *Program Area Codes: CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for crinking waters), SHW = Solid and Hazardous Wastes (for solis, ground waters and waste samples) *Preservative Codes (place corresponding # in block above analysis field): 0 = None, 1 = HCL, 2 = HNCs, 3 = HSO, 4 = NaOH, 5 = NaSSO, 6 = Method 5035 set w/ NaHSO. 8 CH-OH, 7 = NaOH/ZnOAC, 8 = H;-PO, (if sample is a composite please use space below to note startfinish times & dates) Phone: (803) 781-4243 Fax: 781-4303 ANALYTICAL, INC. **Matrix Codes (place corresponding code in matrix column):

GW = ground water, WW = waste water, DW = drinking water, S = soil.

SE = sludge, A = air, WW = industrial waste, WO = waste oil, OT = other (specify in comments section). Sample Temp, Upon Receipt (°C): NOTES / COMMENTS ပ္ပ () () ပ္ပ ACCESS www.axs-inc.com 5 G = Glass, P = Plastic Samples Rec'd Laboratory ID: on Ice 7478 Carlisle Street Irmo, SC 29063 9:30 Time オスニ Date (mn-dd-w) Access Quote # Received By: 14 M+ X ST 38 HBT + 3 M AT + A A T orlecto.

Ted |

straight \$0.9 Polisioo Polisioo Pol Selisis a of solistorical solicorical per j sixilorical Container Type: (*see codes) betzelo rsq sizyien ter) eleçika terrello 191 ilensiteris boxelf yer eistlen rsq arylens † KEÖNEZLED FYB YMYTKSIS: † Preservative: (*see codes) Daus Relinquished Bv. Email: Ofisher@crawfordenviornmental.com Date Time Type: Matrix:Program Total Collected: Collected: (gmb or (see code) Area * of complexes 3 Fax: 40349 6259 非 〇 心 11/4/4 1600 G GW Company Dame: Crawford Enviornmental Zip: 34011 SS Clouds Chevron 11/11/14 1420 3 SEE 1230 0 11/4 W 1545 1114H W25 11 | 12 | W | 15 | 15 11/2/11/330 2410 Project Location: Billy Ewing Other **X**sc S Address: 15 Church Ave MINIT (specify) City: Roanoke Starging Report Tophon Fisher Phone: 540 343 6256 emailed/faxed by end of busi-96 MM ness day on date required) Turnaround Time: W W 93 S S S KN NO (For rush work, results M W 32 MW 7 NN 30 M W SY NN S 51 Sample ID/Description *Date Required: Sales Order # X Standard Sampled By: RUSH* Project ID:

See Reverse for Terms and Conditions

Original Copy - Returned w/Report Yellow Copy - Access File Copy Pink Copy - Client Copy

Page 4 of 86

Access Analytical - Chain of Custody Record

LAB USE ONLY

Page 5 of 86

Project Work Order # |ユニロンス

(A/A) (N/A) (N/A) (N/A) *Preservative Codes (place corresponding # In block above analysis field): 0 = Nono. 1 = HCL, 2 = HNOo, 3 = HSOo, 4 = NaOH, 5 = NaSSO, 6 = Method 5055 set w/ NaHSO. 8 CH-OH 7 = NaOH/ZnOAC, 9 = H-P.O. *Program Area Codes: CWA = Dean Water Act (for wastewaters), SDWA Safe Drinking Water Act (for drinking waters), SHW = Solid and Hazardous Wastes (for solis, ground waters and waste samples) (if sample is a composite please use space below to note samfinish times & dates) Phone: (803) 781-4243 Fax: 781-4303 ANALYTICAL, INC. "Matrix Codes (place corresponding code in matrix column):
GW = ground water, WW = waste water, DW = drhiking water, S = soil,
SE = sludge, A = air, IW = industrial waste, WO = waste oil, OT = other (specify in comments section) Sample Temp. Upon Receipt (°C): ပ္ပ ပ္ပ NOTES / COMMENT ACCESS www.axs-inc.com G = Glass, P = Plastic Samples Rec'd Laboratory ID: 7478 Carlisle Street Irmo, SC 29063 Container Type: 9.30 1115/14 Date mm-dd-yy) ナー Access Quote # reway Received By: OUNG 1 + X31381 810068 + 3MAT + AAT 6 5 Container Type: (*see codes) enviko ry ( entiens rotockoc yeq sizylens laballo rsq isylans nanietni bazako teg teglene lo a manistra betrallo teq alcristra svejlen Let rer desplan req attilent ted | soshen Maris 1 KEÖNEZLED TYB YMYTKZIZ: 1 Preservative: (*sec codes) Email: 17 Eisher@crawfordenviornmental.com Refinduished By: TOTAL # of containers 6 Phone: 540 343 6250 Fax: 5403436259 Date Time Type: Matrix:Program Collected: Collected: composite (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (see code) (se Nonz # 0 3 7 6 Z Company Name: Crawford Enviornmental > SS 11/11/11/11/11/11/11/11 1 0021 MEYT Clouds Cherron MM14 1360 06:P 186/11 WIN 2 1940 2000 2 5 るえ Project Location: Dilly Fiving Other 15 Church Ave  $\chi_{\rm sc}$ S N N The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s ころ ころに Roanoke State: VA (specify) Jan Fisher emailed/faxed by end of business day on date required) NW 5AR Turnaround Time: (For rush work, results TO MY WW 28 0 2 5 KK MM ころ MW 20 MW 8 UN 7 TMA Sample ID/Description *Date Required: Sales Order # X Standard Sampled By: Report To: RUSH* Project ID: Öity:

See Reverse for Terms and Conditions

Original Copy - Returned w/Report Yellow Copy - Access File Copy Pink Copy - Client Copy

Project Work Order # (「一一 Access Analytical - Chain of Custody Record

LAB USE ONLY

Page 6 of 86

(N/A) (N/A) (N/A) (NA) *Program Area Codes: CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking waters), SHW = Solid and Hazardous Wastes (for solls, ground waters and waste samples) *Preservative Codes (place corresponding # in block above analysis field): 0 = None, 1 = HCL, 2 = HNO,, 3 = H.SO,, 4 = NaOH, 5 = Na.S.O. 6 = Method 5035 set w/ NaHSO. 8 CH.OH, 7 = NaOH/ZnOAC, 8 = H.PO. (if sample is a composite please use space below to note start/linish times & dates) Phone: (803) 781-4243 Fax: 781-4303 ANALYTICAL, INC. Sample Temp, Upon Receipt (°C): *Matrix Codes (place corresponding code in matrix column):

GW = ground water, WW = waste water, DW = drinking water, S = soil,

SL = sludge, A = air, IW = industrial waste, WO = waste oil, OT = other NOTES / COMMENT ပ္ပ ် <u>ဂ</u> ACCESS www.axs-inc.com 0 G = Glass, P = Plastic Samples Rec'd on Ice Laboratory ID: (specify in comments section, 7478 Carlisle Street Irmo, SC 29063 1:30 52 800 Time 24HB) *カトカト11* 11-11-11 11115/12 Date Access Quote # deway Received By: ABITAMAT + AAT 3 899013 lo a nanistro fotodio i 134 iirilens Container Type: (*see codes) llected per per alysis paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo pared paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo paredo pared paredo paredo paredo paredo paredo paredo pared paredo paredo paredo paredo paredo paredo paredo paredo pared paredo paredo paredo paredo paredo paredo paredo paredo pared pared pared pared pared paredo paredo paredo pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared pared † KEÖNEZLED IVB VNYTKSIS! † Preservative: (*see codes) JAM 13 Relinquished By: Email: Dfisher@crawfordenviornmental.com Date Tink Type: Matrix:Program Toru.
Collected: Collected: (cmposte) (seconds) Area "ed. 3 Phone: 540 343 6256 Fax: 540 343 6259 Many \$ 0 * Company Lawer Enviornmental ලි となり 3 <u>0</u> Clouds Chevron 1230 11/0/w 1315 0 3 いと 11/11/11/940 11/11/11/11/11/11 Project Location: 1.131.1900 15 Church Ave Other S Billy Buing  $\times$  sc ROG NOKE VA (specify) 🚅 11010 Report To: Dan Fisher emailed/faxed by end of busi-S ≥ 7.00 ness day on date required) Turnaround Time: 言言の  $\overline{c}$ (For rush work, results DE MIN 5.2 N.W 33 3 38 Sample ID/Description 3 7 *Date Required: Sales Order # X Standard Sampled By: RUSH* Project ID: Address: City:

See Reverse for Terms and Conditions

Original Copy - Returned w/Report Yellow Copy - Access File Copy Pink Copy - Client Copy

T to C of T

Access Analytical - Chain of Custody Record

LAB USE ONLY

Page 7 of 86

Project Work Order # TELL D.

(A/A) (A/Z) (N/A) (X/Z) *Program Area Codes: CWA = Clean Water Act (for westewaters), SDWA. Safe Drinking Water Act (for drinking waters), SHW = Solid and Hazardous Wastes (for solis, ground waters and waste samples) *Preservative Codes (place corresponding # in block above analysis field)*
0 = None, 1 = HCL, 2 = HNOs, 3 = H.SOs, 4 = NAOH, 5 = NAS.So.
6 = Method 5035 set w/ NaHSO. 8 CH:OH, 7 = NeOHZnOAC, 8 = H.PO. (if simple is a composite please use space below to note start/finish times & dates.) Phone: (803) 781-4243 Fax: 781-4303 ANALYTICAL, INC. "Matrix Codes (place corresponding code in matrix column).

GW = ground water, WW = waste water, DW = drinking water, S = soil,
SE = sludge, A = air, NW = industrial waste, WO = waste oil, OT = other
(specify in comments section). Sample Temp, Upon NOTES / COMMENTS ပ္ ပ္ပ ပ္ပ ACCESS www.axs-inc.com 61 Container Type: G = Glass, P = Plastic Samples Rec'd on Ice Laboratory ID: 7478 Carlisle Street Irmo, SC 29063 9:30 Time 24HR) カーカー さびご Date ( Access Quote # deutar Received By: Same 810988 AAT TAME + ථ lo * norderno barolleo uvilens e of mession collected profession sixilens to e rentation testaclico test test steptens ollocted per J per J per J borselloo teq tierliens lensellee Per sierlens batcalloo | 13d | | techtors jo a nacistoo batoslia jasq sisqians Container Type: (*see codes) Preservative: (*see codes) THEO TEB LAB ANALYSIS: Relinquished By: Email: Drisher@Crawfordenviornmental.com TOTAL # of 3 Fax: 540 343 62 59 Matrix: Program T 3 # 0 11/11/14 1240 G-GW ンよの川 Crawford Enviornmental Date Trine Type: 3 1 1 1 1 1 1 20 | Zip: WILL AND 1025 11 Miles 128 Clouds Cheuron 11/11/14 1530 11/4 15/30 11/11/11 860 000 EV 1/3/2/8/20 Project Location: Other Billy Ewing Xsc S 15 Church Are State: VA (specify) 540 343 6936 ブーニ Report To: Dan Fisher emailed/faxed by end of busi-ままかみ Roanoke ness day on date required) N CO Turnaround Time: NW 25 (For rush work, results 7 RA 3 SIN Sample ID/Description 280 Company Name: 2 *Date Required: Sales Order # XStandard Sampled By: RUSH* Project ID: Phone: Address: City:

See Reverse for Terms and Conditions

Original Copy - Returned w/Report Yellow Copy - Access File Copy Pink Copy - Client Copy

6 of 7

"Preservative Codes (place corresponding # in block above analysis field): 0 = None, 1 = HCL, 2 = HNO., 3 = H.SO., 4 = NOOH 5 = Na.SO., 6 = Method 5035 set w/ NaHSO. & CHOH, 7 = NaOHZnOAC, 8 = H.PO. *Program Area Codes: CWA = Clean Water Act (for wastewaters); SDWA Safe Drinking Water Act (for drinking waters); SHW = Solid and Hazardous Wastes (for solls, ground waters and waste samples) INO I ES / CLYIIVIEIN I S
(if sumple is a composite please use space below to note startifinsh times & dates) Phone: (803) 781-4243 Fax: 781-4303 ANALYTICAL, INC. Project Work Order # 1411033 "Matrix Codes (place corresponding code in matrix column):

SL = ground water, WW = waste water, DW = drinking water, S = soil,

SL = sludge, A = Bir, IW = industrial waste, WO = waste oil, OT = other (specify in comments section) Sample Temp. Upon Receipt (°C): NOTES / COMMENTS ပ္ပ ပ္ပ (°C) ACCESS www.axs-inc.com G = Glass, P = Plastic Z Samples Rec'd on Ice Laboratory ID: 7478 Carlisle Street Irmo, SC 29063 *Container Type: 8:18 821 2-61-Time (24HB) Access Analytical - Chain of Custody Record セトセー ころえ Date mm-dd-w Access Quote # acusas Received By: Jano ABIT THMET THAT D 830013 lo e eranisimo barrallor i raj sierlieras 10 & snietro ouvellor 19q elefiens to t container collected per per ter ter banaloo | 194 | eirilers # of Mainer Mocted Per Mainer lo a ranistra batosilo asq asq sierism lo * ranisim batollo: i raq kirilans Container Type: (*see codes) Jan S Preservative: (*see codes) t keguested lab analysis; t Relinquished By: Email: Dfisher@crawfordenviornmental.com Date Time Type: Matrix:Program Total Collected: Collected: components (see code) Area (see code) Connines S Phone: 540 343 6250 Fax: 540 343 62 59 200 か (2) (4) CompanyName: Ford Enviornmental 多の中で Rognoke VA Lip. Ayoll 15 Church Ave SW Clouds Chewon Willy 1530 11 12/14 1600 1132 ASO Project Location: Billy Ewing Other ON. SC (specify) __ 7 2 2 Į Report To: Dan Fisher LAB USE ONLY emailed/faxed by end of busi-Fir Blank rio Blank ness day on date required) Turnaround Time: (For rush work, results Durp 3 Dup 2 Sample ID/Description しばる *Date Required: Sales Order # Sampled By: Standard RUSH* Address:

See Reverse for Terms and Conditions

Original Copy - Returned w/Report Yellow Copy - Access File Copy Pink Copy - Client Copy

(NA)

(XX)

(N/A)

(NA)

Page 8 of 86

Client: Crawford Environmental Services

Project: Clouds Chevron Case Narrative

Date:

25-Nov-14

Lab ID: 1411D32

Sample "DW 14" was written as "DW 4" on the sample container. Sample "DW 13" was written as "DW 3" on the sample container. Sample "PW R-1" was written as "PW 1-R" on the sample container.

All samples were matched according the collection date and time and were logged in according to the COC.

Volatile Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 1411D32-002A, -006A, -026A, -027A, -028A, -036A, -038A, -040A, -041A, -042A, -053A, and -055A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Sample 1411D32-026A as received did not meet method specified preservation requirements of pH <2. The laboratory proceeded with analysis.

Client: Crawford Environmental Services Client Sample ID: DW 6

Project Name: Clouds Chevron Collection Date: 11/12/2014 12:00:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-001 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	3		(	SW5030	0B)			
Benzene	BRL		0.39	1.0	ug/L	199515	1	11/20/2014 01:50	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199515	1	11/20/2014 01:50	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199515	1	11/20/2014 01:50	NP
Naphthalene	BRL		0.20	5.0	ug/L	199515	1	11/20/2014 01:50	NP
Toluene	BRL		0.38	1.0	ug/L	199515	1	11/20/2014 01:50	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199515	1	11/20/2014 01:50	NP
Surr: 4-Bromofluorobenzene	95.2		0	70-130	%REC	199515	1	11/20/2014 01:50	NP
Surr: Dibromofluoromethane	99.7		0	70-130	%REC	199515	1	11/20/2014 01:50	NP
Surr: Toluene-d8	94.9		0	70-130	%REC	199515	1	11/20/2014 01:50	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199515	1	11/20/2014 01:50	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199515	1	11/20/2014 01:50	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199515	1	11/20/2014 01:50	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

 ${\bf H} \qquad {\bf Holding\ times\ for\ preparation\ or\ analysis\ exceeded}$ 

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 18

Project Name: Clouds Chevron Collection Date: 11/12/2014 3:30:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-002 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	3100		39	100	ug/L	199515	100	11/19/2014 23:47	NP
Ethylbenzene	560		40	100	ug/L	199515	100	11/19/2014 23:47	NP
Methyl tert-butyl ether	510		42	100	ug/L	199515	100	11/19/2014 23:47	NP
Naphthalene	290	J	20	500	ug/L	199515	100	11/19/2014 23:47	NP
Toluene	11000		38	100	ug/L	199515	100	11/19/2014 23:47	NP
Xylenes, Total	8700		83	100	ug/L	199515	100	11/19/2014 23:47	NP
Surr: 4-Bromofluorobenzene	99.3		0	70-130	%REC	199515	100	11/19/2014 23:47	NP
Surr: Dibromofluoromethane	97.9		0	70-130	%REC	199515	100	11/19/2014 23:47	NP
Surr: Toluene-d8	96.7		0	70-130	%REC	199515	100	11/19/2014 23:47	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	12000		950	10000	ug/L	199515	100	11/19/2014 23:47	NP
tert-Amyl methyl ether	BRL		100	1000	ug/L	199515	100	11/19/2014 23:47	NP
tert-Butyl Alcohol	BRL		680	10000	ug/L	199515	100	11/19/2014 23:47	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 45

Project Name: Clouds Chevron Collection Date: 11/11/2014 8:30:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-003 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	BRL		0.39	1.0	ug/L	199515	1	11/20/2014 02:15	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199515	1	11/20/2014 02:15	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199515	1	11/20/2014 02:15	NP
Naphthalene	BRL		0.20	5.0	ug/L	199515	1	11/20/2014 02:15	NP
Toluene	BRL		0.38	1.0	ug/L	199515	1	11/20/2014 02:15	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199515	1	11/20/2014 02:15	NP
Surr: 4-Bromofluorobenzene	88.8		0	70-130	%REC	199515	1	11/20/2014 02:15	NP
Surr: Dibromofluoromethane	98		0	70-130	%REC	199515	1	11/20/2014 02:15	NP
Surr: Toluene-d8	94.9		0	70-130	%REC	199515	1	11/20/2014 02:15	NP
Oxygenates SW8260B				(	SW5030	<b>OB</b> )			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199515	1	11/20/2014 02:15	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199515	1	11/20/2014 02:15	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199515	1	11/20/2014 02:15	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 44

Project Name: Clouds Chevron Collection Date: 11/11/2014 8:15:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-004 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW5030	OB)			
Benzene	BRL		0.39	1.0	ug/L	199515	1	11/20/2014 02:39	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199515	1	11/20/2014 02:39	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199515	1	11/20/2014 02:39	NP
Naphthalene	BRL		0.20	5.0	ug/L	199515	1	11/20/2014 02:39	NP
Toluene	BRL		0.38	1.0	ug/L	199515	1	11/20/2014 02:39	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199515	1	11/20/2014 02:39	NP
Surr: 4-Bromofluorobenzene	90.3		0	70-130	%REC	199515	1	11/20/2014 02:39	NP
Surr: Dibromofluoromethane	101		0	70-130	%REC	199515	1	11/20/2014 02:39	NP
Surr: Toluene-d8	95.5		0	70-130	%REC	199515	1	11/20/2014 02:39	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199515	1	11/20/2014 02:39	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199515	1	11/20/2014 02:39	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199515	1	11/20/2014 02:39	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 16

Project Name: Clouds Chevron Collection Date: 11/12/2014 9:25:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-005 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	)B)			
Benzene	BRL		0.39	1.0	ug/L	199515	1	11/20/2014 03:04	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199515	1	11/20/2014 03:04	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199515	1	11/20/2014 03:04	NP
Naphthalene	BRL		0.20	5.0	ug/L	199515	1	11/20/2014 03:04	NP
Toluene	BRL		0.38	1.0	ug/L	199515	1	11/20/2014 03:04	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199515	1	11/20/2014 03:04	NP
Surr: 4-Bromofluorobenzene	91.4		0	70-130	%REC	199515	1	11/20/2014 03:04	NP
Surr: Dibromofluoromethane	97.8		0	70-130	%REC	199515	1	11/20/2014 03:04	NP
Surr: Toluene-d8	97.8		0	70-130	%REC	199515	1	11/20/2014 03:04	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199515	1	11/20/2014 03:04	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199515	1	11/20/2014 03:04	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199515	1	11/20/2014 03:04	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 17

Project Name: Clouds Chevron Collection Date: 11/12/2014 9:10:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-006 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst	
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)				
Benzene	32		3.9	10	ug/L	199515	10	11/20/2014 15:40	NP	
Ethylbenzene	450		4.0	10	ug/L	199515	10	11/20/2014 15:40	NP	
Methyl tert-butyl ether	BRL		4.2	10	ug/L	199515	10	11/20/2014 15:40	NP	
Naphthalene	690		2.0	50	ug/L	199515	10	11/20/2014 15:40	NP	
Toluene	3000		19	50	ug/L	199515	50	11/20/2014 00:12	NP	
Xylenes, Total	8300		41	50	ug/L	199515	50	11/20/2014 00:12	NP	
Surr: 4-Bromofluorobenzene	100		0	70-130	%REC	199515	50	11/20/2014 00:12	NP	
Surr: 4-Bromofluorobenzene	102		0	70-130	%REC	199515	10	11/20/2014 15:40	NP	
Surr: Dibromofluoromethane	100		0	70-130	%REC	199515	50	11/20/2014 00:12	NP	
Surr: Dibromofluoromethane	94.2		0	70-130	%REC	199515	10	11/20/2014 15:40	NP	
Surr: Toluene-d8	96.4		0	70-130	%REC	199515	50	11/20/2014 00:12	NP	
Surr: Toluene-d8	95		0	70-130	%REC	199515	10	11/20/2014 15:40	NP	
Oxygenates SW8260B			(SW5030B)							
tert-Amyl alcohol	270	J	95	1000	ug/L	199515	10	11/20/2014 15:40	NP	
tert-Amyl methyl ether	BRL		10	100	ug/L	199515	10	11/20/2014 15:40	NP	
tert-Butyl Alcohol	BRL		68	1000	ug/L	199515	10	11/20/2014 15:40	NP	

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 46

Project Name: Clouds Chevron Collection Date: 11/12/2014 8:45:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-007 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	BRL		0.39	1.0	ug/L	199515	1	11/20/2014 03:29	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199515	1	11/20/2014 03:29	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199515	1	11/20/2014 03:29	NP
Naphthalene	BRL		0.20	5.0	ug/L	199515	1	11/20/2014 03:29	NP
Toluene	BRL		0.38	1.0	ug/L	199515	1	11/20/2014 03:29	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199515	1	11/20/2014 03:29	NP
Surr: 4-Bromofluorobenzene	92.5		0	70-130	%REC	199515	1	11/20/2014 03:29	NP
Surr: Dibromofluoromethane	97.6		0	70-130	%REC	199515	1	11/20/2014 03:29	NP
Surr: Toluene-d8	96.4		0	70-130	%REC	199515	1	11/20/2014 03:29	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199515	1	11/20/2014 03:29	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199515	1	11/20/2014 03:29	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199515	1	11/20/2014 03:29	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: FB 1

Project Name: Clouds Chevron Collection Date: 11/11/2014 4:45:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-008 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW5030	OB)			
Benzene	BRL		0.39	1.0	ug/L	199515	1	11/19/2014 22:34	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199515	1	11/19/2014 22:34	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199515	1	11/19/2014 22:34	NP
Naphthalene	BRL		0.20	5.0	ug/L	199515	1	11/19/2014 22:34	NP
Toluene	BRL		0.38	1.0	ug/L	199515	1	11/19/2014 22:34	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199515	1	11/19/2014 22:34	NP
Surr: 4-Bromofluorobenzene	91.3		0	70-130	%REC	199515	1	11/19/2014 22:34	NP
Surr: Dibromofluoromethane	101		0	70-130	%REC	199515	1	11/19/2014 22:34	NP
Surr: Toluene-d8	97		0	70-130	%REC	199515	1	11/19/2014 22:34	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199515	1	11/19/2014 22:34	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199515	1	11/19/2014 22:34	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199515	1	11/19/2014 22:34	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: FB 2

Project Name: Clouds Chevron Collection Date: 11/12/2014 4:45:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-009 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	BRL		0.39	1.0	ug/L	199515	1	11/19/2014 22:58	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199515	1	11/19/2014 22:58	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199515	1	11/19/2014 22:58	NP
Naphthalene	BRL		0.20	5.0	ug/L	199515	1	11/19/2014 22:58	NP
Toluene	BRL		0.38	1.0	ug/L	199515	1	11/19/2014 22:58	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199515	1	11/19/2014 22:58	NP
Surr: 4-Bromofluorobenzene	91		0	70-130	%REC	199515	1	11/19/2014 22:58	NP
Surr: Dibromofluoromethane	101		0	70-130	%REC	199515	1	11/19/2014 22:58	NP
Surr: Toluene-d8	96.8		0	70-130	%REC	199515	1	11/19/2014 22:58	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199515	1	11/19/2014 22:58	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199515	1	11/19/2014 22:58	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199515	1	11/19/2014 22:58	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: FB 3

Project Name: Clouds Chevron Collection Date: 11/13/2014 4:45:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-010 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	BRL		0.39	1.0	ug/L	199515	1	11/19/2014 23:22	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199515	1	11/19/2014 23:22	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199515	1	11/19/2014 23:22	NP
Naphthalene	BRL		0.20	5.0	ug/L	199515	1	11/19/2014 23:22	NP
Toluene	BRL		0.38	1.0	ug/L	199515	1	11/19/2014 23:22	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199515	1	11/19/2014 23:22	NP
Surr: 4-Bromofluorobenzene	91.6		0	70-130	%REC	199515	1	11/19/2014 23:22	NP
Surr: Dibromofluoromethane	102		0	70-130	%REC	199515	1	11/19/2014 23:22	NP
Surr: Toluene-d8	96.1		0	70-130	%REC	199515	1	11/19/2014 23:22	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199515	1	11/19/2014 23:22	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199515	1	11/19/2014 23:22	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199515	1	11/19/2014 23:22	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

 $H \qquad \hbox{Holding times for preparation or analysis exceeded} \\$ 

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 62

Project Name: Clouds Chevron Collection Date: 11/11/2014 4:00:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-011 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	51		0.39	1.0	ug/L	199515	1	11/20/2014 03:54	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199515	1	11/20/2014 03:54	NP
Methyl tert-butyl ether	2.6		0.42	1.0	ug/L	199515	1	11/20/2014 03:54	NP
Naphthalene	65		0.20	5.0	ug/L	199515	1	11/20/2014 03:54	NP
Toluene	BRL		0.38	1.0	ug/L	199515	1	11/20/2014 03:54	NP
Xylenes, Total	0.93	J	0.83	1.0	ug/L	199515	1	11/20/2014 03:54	NP
Surr: 4-Bromofluorobenzene	94.1		0	70-130	%REC	199515	1	11/20/2014 03:54	NP
Surr: Dibromofluoromethane	96.7		0	70-130	%REC	199515	1	11/20/2014 03:54	NP
Surr: Toluene-d8	98.8		0	70-130	%REC	199515	1	11/20/2014 03:54	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	730		9.5	100	ug/L	199515	1	11/20/2014 03:54	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199515	1	11/20/2014 03:54	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199515	1	11/20/2014 03:54	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 70

Project Name: Clouds Chevron Collection Date: 11/11/2014 4:20:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-012 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	BRL		0.39	1.0	ug/L	199515	1	11/20/2014 04:19	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199515	1	11/20/2014 04:19	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199515	1	11/20/2014 04:19	NP
Naphthalene	1.5	J	0.20	5.0	ug/L	199515	1	11/20/2014 04:19	NP
Toluene	BRL		0.38	1.0	ug/L	199515	1	11/20/2014 04:19	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199515	1	11/20/2014 04:19	NP
Surr: 4-Bromofluorobenzene	90		0	70-130	%REC	199515	1	11/20/2014 04:19	NP
Surr: Dibromofluoromethane	99.5		0	70-130	%REC	199515	1	11/20/2014 04:19	NP
Surr: Toluene-d8	96		0	70-130	%REC	199515	1	11/20/2014 04:19	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199515	1	11/20/2014 04:19	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199515	1	11/20/2014 04:19	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199515	1	11/20/2014 04:19	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Narr See case narrative

Page 21 of 86

Client: Crawford Environmental Services Client Sample ID: MW 40

Project Name: Clouds Chevron Collection Date: 11/11/2014 4:45:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-013 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	<b>OB</b> )			
Benzene	140		0.39	1.0	ug/L	199515	1	11/20/2014 19:22	NP
Ethylbenzene	300		8.1	20	ug/L	199515	20	11/20/2014 01:01	NP
Methyl tert-butyl ether	12		0.42	1.0	ug/L	199515	1	11/20/2014 19:22	NP
Naphthalene	150		4.0	100	ug/L	199515	20	11/20/2014 01:01	NP
Toluene	970		7.5	20	ug/L	199515	20	11/20/2014 01:01	NP
Xylenes, Total	2900		17	20	ug/L	199515	20	11/20/2014 01:01	NP
Surr: 4-Bromofluorobenzene	102		0	70-130	%REC	199515	20	11/20/2014 01:01	NP
Surr: 4-Bromofluorobenzene	104		0	70-130	%REC	199515	1	11/20/2014 19:22	NP
Surr: Dibromofluoromethane	88		0	70-130	%REC	199515	1	11/20/2014 19:22	NP
Surr: Dibromofluoromethane	97.9		0	70-130	%REC	199515	20	11/20/2014 01:01	NP
Surr: Toluene-d8	95.6		0	70-130	%REC	199515	1	11/20/2014 19:22	NP
Surr: Toluene-d8	97.2		0	70-130	%REC	199515	20	11/20/2014 01:01	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	600		9.5	100	ug/L	199515	1	11/20/2014 19:22	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199515	1	11/20/2014 19:22	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199515	1	11/20/2014 19:22	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Narr See case narrative

Page 22 of 86

Client: Crawford Environmental Services Client Sample ID: MW 39

Project Name: Clouds Chevron Collection Date: 11/12/2014 11:30:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-014 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260]	В		(	SW5030	0B)			
Benzene	11		0.39	1.0	ug/L	199515	1	11/20/2014 19:47	NP
Ethylbenzene	1000		8.1	20	ug/L	199515	20	11/20/2014 01:26	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199515	1	11/20/2014 19:47	NP
Naphthalene	340		4.0	100	ug/L	199515	20	11/20/2014 01:26	NP
Toluene	1500		7.5	20	ug/L	199515	20	11/20/2014 01:26	NP
Xylenes, Total	3700		17	20	ug/L	199515	20	11/20/2014 01:26	NP
Surr: 4-Bromofluorobenzene	101		0	70-130	%REC	199515	20	11/20/2014 01:26	NP
Surr: 4-Bromofluorobenzene	104		0	70-130	%REC	199515	1	11/20/2014 19:47	NP
Surr: Dibromofluoromethane	89.2		0	70-130	%REC	199515	1	11/20/2014 19:47	NP
Surr: Dibromofluoromethane	94.2		0	70-130	%REC	199515	20	11/20/2014 01:26	NP
Surr: Toluene-d8	95.3		0	70-130	%REC	199515	1	11/20/2014 19:47	NP
Surr: Toluene-d8	96.3		0	70-130	%REC	199515	20	11/20/2014 01:26	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	220		9.5	100	ug/L	199515	1	11/20/2014 19:47	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199515	1	11/20/2014 19:47	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199515	1	11/20/2014 19:47	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 67

Project Name: Clouds Chevron Collection Date: 11/12/2014 11:40:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-015 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	)B)			
Benzene	BRL		0.39	1.0	ug/L	199515	1	11/20/2014 04:43	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199515	1	11/20/2014 04:43	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199515	1	11/20/2014 04:43	NP
Naphthalene	BRL		0.20	5.0	ug/L	199515	1	11/20/2014 04:43	NP
Toluene	BRL		0.38	1.0	ug/L	199515	1	11/20/2014 04:43	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199515	1	11/20/2014 04:43	NP
Surr: 4-Bromofluorobenzene	93.2		0	70-130	%REC	199515	1	11/20/2014 04:43	NP
Surr: Dibromofluoromethane	102		0	70-130	%REC	199515	1	11/20/2014 04:43	NP
Surr: Toluene-d8	96.6		0	70-130	%REC	199515	1	11/20/2014 04:43	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199515	1	11/20/2014 04:43	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199515	1	11/20/2014 04:43	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199515	1	11/20/2014 04:43	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Narr See case narrative

Page 24 of 86

Client: Crawford Environmental Services Client Sample ID: MW 42

Project Name: Clouds Chevron Collection Date: 11/12/2014 11:50:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-016 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260I	3		(	SW5030	0B)			
Benzene	BRL		0.39	1.0	ug/L	199515	1	11/20/2014 07:52	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199515	1	11/20/2014 07:52	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199515	1	11/20/2014 07:52	NP
Naphthalene	BRL		0.20	5.0	ug/L	199515	1	11/20/2014 07:52	NP
Toluene	BRL		0.38	1.0	ug/L	199515	1	11/20/2014 07:52	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199515	1	11/20/2014 07:52	NP
Surr: 4-Bromofluorobenzene	93.3		0	70-130	%REC	199515	1	11/20/2014 07:52	NP
Surr: Dibromofluoromethane	100		0	70-130	%REC	199515	1	11/20/2014 07:52	NP
Surr: Toluene-d8	95.7		0	70-130	%REC	199515	1	11/20/2014 07:52	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199515	1	11/20/2014 07:52	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199515	1	11/20/2014 07:52	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199515	1	11/20/2014 07:52	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 38

Project Name: Clouds Chevron Collection Date: 11/12/2014 12:40:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-017 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	BRL		0.39	1.0	ug/L	199515	1	11/20/2014 08:17	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199515	1	11/20/2014 08:17	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199515	1	11/20/2014 08:17	NP
Naphthalene	BRL		0.20	5.0	ug/L	199515	1	11/20/2014 08:17	NP
Toluene	BRL		0.38	1.0	ug/L	199515	1	11/20/2014 08:17	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199515	1	11/20/2014 08:17	NP
Surr: 4-Bromofluorobenzene	90.4		0	70-130	%REC	199515	1	11/20/2014 08:17	NP
Surr: Dibromofluoromethane	102		0	70-130	%REC	199515	1	11/20/2014 08:17	NP
Surr: Toluene-d8	97.4		0	70-130	%REC	199515	1	11/20/2014 08:17	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199515	1	11/20/2014 08:17	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199515	1	11/20/2014 08:17	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199515	1	11/20/2014 08:17	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 31

Project Name: Clouds Chevron Collection Date: 11/12/2014 1:00:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-018 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	30		0.39	1.0	ug/L	199515	1	11/20/2014 18:57	NP
Ethylbenzene	310		20	50	ug/L	199515	50	11/20/2014 00:37	NP
Methyl tert-butyl ether	4.1		0.42	1.0	ug/L	199515	1	11/20/2014 18:57	NP
Naphthalene	160		10	100	ug/L	199515	50	11/20/2014 00:37	NP
Toluene	9.8		0.38	1.0	ug/L	199515	1	11/20/2014 18:57	NP
Xylenes, Total	9.3		0.83	1.0	ug/L	199515	1	11/20/2014 18:57	NP
Surr: 4-Bromofluorobenzene	95.3		0	70-130	%REC	199515	50	11/20/2014 00:37	NP
Surr: 4-Bromofluorobenzene	102		0	70-130	%REC	199515	1	11/20/2014 18:57	NP
Surr: Dibromofluoromethane	101		0	70-130	%REC	199515	50	11/20/2014 00:37	NP
Surr: Dibromofluoromethane	91.7		0	70-130	%REC	199515	1	11/20/2014 18:57	NP
Surr: Toluene-d8	97.9		0	70-130	%REC	199515	50	11/20/2014 00:37	NP
Surr: Toluene-d8	98.5		0	70-130	%REC	199515	1	11/20/2014 18:57	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	460		9.5	100	ug/L	199515	1	11/20/2014 18:57	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199515	1	11/20/2014 18:57	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199515	1	11/20/2014 18:57	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Narr See case narrative

Page 27 of 86

Client: Crawford Environmental Services Client Sample ID: MW 37

Project Name: Clouds Chevron Collection Date: 11/12/2014 1:15:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-019 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	3		(	SW503	0B)			
Benzene	BRL		0.39	1.0	ug/L	199515	1	11/20/2014 14:51	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199515	1	11/20/2014 14:51	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199515	1	11/20/2014 14:51	NP
Naphthalene	BRL		0.20	5.0	ug/L	199515	1	11/20/2014 14:51	NP
Toluene	BRL		0.38	1.0	ug/L	199515	1	11/20/2014 14:51	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199515	1	11/20/2014 14:51	NP
Surr: 4-Bromofluorobenzene	92.3		0	70-130	%REC	199515	1	11/20/2014 14:51	NP
Surr: Dibromofluoromethane	99.8		0	70-130	%REC	199515	1	11/20/2014 14:51	NP
Surr: Toluene-d8	95.3		0	70-130	%REC	199515	1	11/20/2014 14:51	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199515	1	11/20/2014 14:51	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199515	1	11/20/2014 14:51	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199515	1	11/20/2014 14:51	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 36

Project Name: Clouds Chevron Collection Date: 11/12/2014 3:00:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-020 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	BRL		0.39	1.0	ug/L	199515	1	11/20/2014 15:15	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199515	1	11/20/2014 15:15	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199515	1	11/20/2014 15:15	NP
Naphthalene	BRL		0.20	5.0	ug/L	199515	1	11/20/2014 15:15	NP
Toluene	BRL		0.38	1.0	ug/L	199515	1	11/20/2014 15:15	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199515	1	11/20/2014 15:15	NP
Surr: 4-Bromofluorobenzene	91.4		0	70-130	%REC	199515	1	11/20/2014 15:15	NP
Surr: Dibromofluoromethane	99.4		0	70-130	%REC	199515	1	11/20/2014 15:15	NP
Surr: Toluene-d8	97.6		0	70-130	%REC	199515	1	11/20/2014 15:15	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199515	1	11/20/2014 15:15	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199515	1	11/20/2014 15:15	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199515	1	11/20/2014 15:15	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Narr See case narrative

Page 29 of 86

Client: Crawford Environmental Services Client Sample ID: MW 30

Project Name: Clouds Chevron Collection Date: 11/12/2014 4:00:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-021 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	3		(	SW5030	0B)			
Benzene	BRL		0.39	1.0	ug/L	199525	1	11/21/2014 01:33	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199525	1	11/21/2014 01:33	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199525	1	11/21/2014 01:33	NP
Naphthalene	BRL		0.20	5.0	ug/L	199525	1	11/21/2014 01:33	NP
Toluene	BRL		0.38	1.0	ug/L	199525	1	11/21/2014 01:33	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199525	1	11/21/2014 01:33	NP
Surr: 4-Bromofluorobenzene	95.9		0	70-130	%REC	199525	1	11/21/2014 01:33	NP
Surr: Dibromofluoromethane	95.2		0	70-130	%REC	199525	1	11/21/2014 01:33	NP
Surr: Toluene-d8	93.2		0	70-130	%REC	199525	1	11/21/2014 01:33	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199525	1	11/21/2014 01:33	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199525	1	11/21/2014 01:33	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199525	1	11/21/2014 01:33	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

 $H \qquad \hbox{Holding times for preparation or analysis exceeded} \\$ 

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 6

Project Name: Clouds Chevron Collection Date: 11/11/2014 2:30:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-022 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	BRL		0.39	1.0	ug/L	199525	1	11/21/2014 01:58	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199525	1	11/21/2014 01:58	NP
Methyl tert-butyl ether	0.80	J	0.42	1.0	ug/L	199525	1	11/21/2014 01:58	NP
Naphthalene	BRL		0.20	5.0	ug/L	199525	1	11/21/2014 01:58	NP
Toluene	BRL		0.38	1.0	ug/L	199525	1	11/21/2014 01:58	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199525	1	11/21/2014 01:58	NP
Surr: 4-Bromofluorobenzene	91.9		0	70-130	%REC	199525	1	11/21/2014 01:58	NP
Surr: Dibromofluoromethane	98.4		0	70-130	%REC	199525	1	11/21/2014 01:58	NP
Surr: Toluene-d8	97.1		0	70-130	%REC	199525	1	11/21/2014 01:58	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199525	1	11/21/2014 01:58	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199525	1	11/21/2014 01:58	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199525	1	11/21/2014 01:58	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 32

Project Name: Clouds Chevron Collection Date: 11/12/2014 3:15:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-023 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	0B)			
Benzene	4.0		0.39	1.0	ug/L	199525	1	11/22/2014 14:40	NP
Ethylbenzene	72		0.40	1.0	ug/L	199525	1	11/22/2014 14:40	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199525	1	11/22/2014 14:40	NP
Naphthalene	45		0.20	5.0	ug/L	199525	1	11/22/2014 14:40	NP
Toluene	13		0.38	1.0	ug/L	199525	1	11/22/2014 14:40	NP
Xylenes, Total	10		0.83	1.0	ug/L	199525	1	11/22/2014 14:40	NP
Surr: 4-Bromofluorobenzene	99.4		0	70-130	%REC	199525	1	11/22/2014 14:40	NP
Surr: Dibromofluoromethane	96.2		0	70-130	%REC	199525	1	11/22/2014 14:40	NP
Surr: Toluene-d8	100		0	70-130	%REC	199525	1	11/22/2014 14:40	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199525	1	11/22/2014 14:40	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199525	1	11/22/2014 14:40	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199525	1	11/22/2014 14:40	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 33

Project Name: Clouds Chevron Collection Date: 11/12/2014 3:45:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-024 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	0B)			
Benzene	130		0.39	1.0	ug/L	199525	1	11/24/2014 14:30	NP
Ethylbenzene	210		8.1	20	ug/L	199525	20	11/20/2014 17:19	NP
Methyl tert-butyl ether	1.2		0.42	1.0	ug/L	199525	1	11/24/2014 14:30	NP
Naphthalene	71		0.20	5.0	ug/L	199525	1	11/24/2014 14:30	NP
Toluene	410		7.5	20	ug/L	199525	20	11/20/2014 17:19	NP
Xylenes, Total	550		17	20	ug/L	199525	20	11/20/2014 17:19	NP
Surr: 4-Bromofluorobenzene	101		0	70-130	%REC	199525	1	11/24/2014 14:30	NP
Surr: 4-Bromofluorobenzene	96.3		0	70-130	%REC	199525	20	11/20/2014 17:19	NP
Surr: Dibromofluoromethane	91		0	70-130	%REC	199525	1	11/24/2014 14:30	NP
Surr: Dibromofluoromethane	96.8		0	70-130	%REC	199525	20	11/20/2014 17:19	NP
Surr: Toluene-d8	97.2		0	70-130	%REC	199525	1	11/24/2014 14:30	NP
Surr: Toluene-d8	94.2		0	70-130	%REC	199525	20	11/20/2014 17:19	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	1000		9.5	100	ug/L	199525	1	11/24/2014 14:30	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199525	1	11/24/2014 14:30	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199525	1	11/24/2014 14:30	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 34

Project Name: Clouds Chevron Collection Date: 11/12/2014 2:25:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-025 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260I	3		(	SW5030	0B)			
Benzene	BRL		0.39	1.0	ug/L	199525	1	11/21/2014 02:23	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199525	1	11/21/2014 02:23	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199525	1	11/21/2014 02:23	NP
Naphthalene	BRL		0.20	5.0	ug/L	199525	1	11/21/2014 02:23	NP
Toluene	BRL		0.38	1.0	ug/L	199525	1	11/21/2014 02:23	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199525	1	11/21/2014 02:23	NP
Surr: 4-Bromofluorobenzene	93.2		0	70-130	%REC	199525	1	11/21/2014 02:23	NP
Surr: Dibromofluoromethane	97.9		0	70-130	%REC	199525	1	11/21/2014 02:23	NP
Surr: Toluene-d8	95.7		0	70-130	%REC	199525	1	11/21/2014 02:23	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199525	1	11/21/2014 02:23	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199525	1	11/21/2014 02:23	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199525	1	11/21/2014 02:23	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: DW 5

Project Name: Clouds Chevron Collection Date: 11/12/2014 2:10:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-026 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	6700		19	50	ug/L	199525	50	11/21/2014 20:21	NP
Ethylbenzene	240		20	50	ug/L	199525	50	11/21/2014 20:21	NP
Methyl tert-butyl ether	1400		21	50	ug/L	199525	50	11/21/2014 20:21	NP
Naphthalene	190	J	10	250	ug/L	199525	50	11/21/2014 20:21	NP
Toluene	380		19	50	ug/L	199525	50	11/21/2014 20:21	NP
Xylenes, Total	3100		41	50	ug/L	199525	50	11/21/2014 20:21	NP
Surr: 4-Bromofluorobenzene	98.8		0	70-130	%REC	199525	50	11/21/2014 20:21	NP
Surr: Dibromofluoromethane	92.9		0	70-130	%REC	199525	50	11/21/2014 20:21	NP
Surr: Toluene-d8	93.3		0	70-130	%REC	199525	50	11/21/2014 20:21	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	5300		480	5000	ug/L	199525	50	11/21/2014 20:21	NP
tert-Amyl methyl ether	110		1.0	10	ug/L	199525	1	11/21/2014 02:47	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199525	1	11/21/2014 02:47	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 35

Project Name: Clouds Chevron Collection Date: 11/12/2014 1:30:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-027 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	6000		19	50	ug/L	199525	50	11/20/2014 16:30	NP
Ethylbenzene	2800		20	50	ug/L	199525	50	11/20/2014 16:30	NP
Methyl tert-butyl ether	330		21	50	ug/L	199525	50	11/20/2014 16:30	NP
Naphthalene	700		10	250	ug/L	199525	50	11/20/2014 16:30	NP
Toluene	7200		19	50	ug/L	199525	50	11/20/2014 16:30	NP
Xylenes, Total	7400		41	50	ug/L	199525	50	11/20/2014 16:30	NP
Surr: 4-Bromofluorobenzene	97.1		0	70-130	%REC	199525	50	11/20/2014 16:30	NP
Surr: Dibromofluoromethane	94.2		0	70-130	%REC	199525	50	11/20/2014 16:30	NP
Surr: Toluene-d8	95		0	70-130	%REC	199525	50	11/20/2014 16:30	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	4700	J	480	5000	ug/L	199525	50	11/20/2014 16:30	NP
tert-Amyl methyl ether	76	J	50	500	ug/L	199525	50	11/20/2014 16:30	NP
tert-Butyl Alcohol	BRL		340	5000	ug/L	199525	50	11/20/2014 16:30	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 3

Project Name: Clouds Chevron Collection Date: 11/11/2014 2:00:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-028 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst	
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)				
Benzene	4600		19	50	ug/L	199525	50	11/21/2014 12:33	NP	
Ethylbenzene	620		20	50	ug/L	199525	50	11/21/2014 12:33	NP	
Methyl tert-butyl ether	1300		21	50	ug/L	199525	50	11/21/2014 12:33	NP	
Naphthalene	280		10	250	ug/L	199525	50	11/21/2014 12:33	NP	
Toluene	11000		38	100	ug/L	199525	100	11/24/2014 12:02	NP	
Xylenes, Total	8700		41	50	ug/L	199525	50	11/21/2014 12:33	NP	
Surr: 4-Bromofluorobenzene	99.6		0	70-130	%REC	199525	50	11/21/2014 12:33	NP	
Surr: 4-Bromofluorobenzene	100		0	70-130	%REC	199525	100	11/24/2014 12:02	NP	
Surr: Dibromofluoromethane	94.8		0	70-130	%REC	199525	50	11/21/2014 12:33	NP	
Surr: Dibromofluoromethane	95.2		0	70-130	%REC	199525	100	11/24/2014 12:02	NP	
Surr: Toluene-d8	95.4		0	70-130	%REC	199525	50	11/21/2014 12:33	NP	
Surr: Toluene-d8	92.7		0	70-130	%REC	199525	100	11/24/2014 12:02	NP	
Oxygenates SW8260B			(SW5030B)							
tert-Amyl alcohol	BRL		480	5000	ug/L	199525	50	11/21/2014 12:33	NP	
tert-Amyl methyl ether	310	J	50	500	ug/L	199525	50	11/21/2014 12:33	NP	
tert-Butyl Alcohol	BRL		340	5000	ug/L	199525	50	11/21/2014 12:33	NP	

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 26

Project Name: Clouds Chevron Collection Date: 11/11/2014 2:10:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-029 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260]	3		(	SW5030	0B)			
Benzene	BRL		0.39	1.0	ug/L	199525	1	11/22/2014 15:05	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199525	1	11/22/2014 15:05	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199525	1	11/22/2014 15:05	NP
Naphthalene	BRL		0.20	5.0	ug/L	199525	1	11/22/2014 15:05	NP
Toluene	BRL		0.38	1.0	ug/L	199525	1	11/22/2014 15:05	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199525	1	11/22/2014 15:05	NP
Surr: 4-Bromofluorobenzene	91.4		0	70-130	%REC	199525	1	11/22/2014 15:05	NP
Surr: Dibromofluoromethane	98.8		0	70-130	%REC	199525	1	11/22/2014 15:05	NP
Surr: Toluene-d8	94.7		0	70-130	%REC	199525	1	11/22/2014 15:05	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199525	1	11/22/2014 15:05	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199525	1	11/22/2014 15:05	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199525	1	11/22/2014 15:05	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 7

Project Name: Clouds Chevron Collection Date: 11/11/2014 2:20:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-030 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	0.71	J	0.39	1.0	ug/L	199525	1	11/21/2014 03:36	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199525	1	11/21/2014 03:36	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199525	1	11/21/2014 03:36	NP
Naphthalene	BRL		0.20	5.0	ug/L	199525	1	11/21/2014 03:36	NP
Toluene	BRL		0.38	1.0	ug/L	199525	1	11/21/2014 03:36	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199525	1	11/21/2014 03:36	NP
Surr: 4-Bromofluorobenzene	93		0	70-130	%REC	199525	1	11/21/2014 03:36	NP
Surr: Dibromofluoromethane	96.9		0	70-130	%REC	199525	1	11/21/2014 03:36	NP
Surr: Toluene-d8	94.2		0	70-130	%REC	199525	1	11/21/2014 03:36	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199525	1	11/21/2014 03:36	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199525	1	11/21/2014 03:36	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199525	1	11/21/2014 03:36	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Narr See case narrative

Page 39 of 86

Client: Crawford Environmental Services Client Sample ID: MW 4

Project Name: Clouds Chevron Collection Date: 11/11/2014 1:50:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-031 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	BRL		0.39	1.0	ug/L	199525	1	11/21/2014 04:01	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199525	1	11/21/2014 04:01	NP
Methyl tert-butyl ether	1.6		0.42	1.0	ug/L	199525	1	11/21/2014 04:01	NP
Naphthalene	BRL		0.20	5.0	ug/L	199525	1	11/21/2014 04:01	NP
Toluene	BRL		0.38	1.0	ug/L	199525	1	11/21/2014 04:01	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199525	1	11/21/2014 04:01	NP
Surr: 4-Bromofluorobenzene	93.9		0	70-130	%REC	199525	1	11/21/2014 04:01	NP
Surr: Dibromofluoromethane	96.5		0	70-130	%REC	199525	1	11/21/2014 04:01	NP
Surr: Toluene-d8	95		0	70-130	%REC	199525	1	11/21/2014 04:01	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199525	1	11/21/2014 04:01	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199525	1	11/21/2014 04:01	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199525	1	11/21/2014 04:01	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

 $H \qquad \hbox{Holding times for preparation or analysis exceeded} \\$ 

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 8

Project Name: Clouds Chevron Collection Date: 11/11/2014 1:00:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-032 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	BRL		0.39	1.0	ug/L	199525	1	11/21/2014 04:26	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199525	1	11/21/2014 04:26	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199525	1	11/21/2014 04:26	NP
Naphthalene	BRL		0.20	5.0	ug/L	199525	1	11/21/2014 04:26	NP
Toluene	BRL		0.38	1.0	ug/L	199525	1	11/21/2014 04:26	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199525	1	11/21/2014 04:26	NP
Surr: 4-Bromofluorobenzene	91.7		0	70-130	%REC	199525	1	11/21/2014 04:26	NP
Surr: Dibromofluoromethane	97.2		0	70-130	%REC	199525	1	11/21/2014 04:26	NP
Surr: Toluene-d8	96.4		0	70-130	%REC	199525	1	11/21/2014 04:26	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199525	1	11/21/2014 04:26	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199525	1	11/21/2014 04:26	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199525	1	11/21/2014 04:26	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: DW 2

Project Name: Clouds Chevron Collection Date: 11/11/2014 1:40:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-033 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260I	3		(	SW503	0B)			
Benzene	BRL		0.39	1.0	ug/L	199525	1	11/21/2014 04:50	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199525	1	11/21/2014 04:50	NP
Methyl tert-butyl ether	10.0		0.42	1.0	ug/L	199525	1	11/21/2014 04:50	NP
Naphthalene	BRL		0.20	5.0	ug/L	199525	1	11/21/2014 04:50	NP
Toluene	BRL		0.38	1.0	ug/L	199525	1	11/21/2014 04:50	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199525	1	11/21/2014 04:50	NP
Surr: 4-Bromofluorobenzene	93		0	70-130	%REC	199525	1	11/21/2014 04:50	NP
Surr: Dibromofluoromethane	99.9		0	70-130	%REC	199525	1	11/21/2014 04:50	NP
Surr: Toluene-d8	97.3		0	70-130	%REC	199525	1	11/21/2014 04:50	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199525	1	11/21/2014 04:50	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199525	1	11/21/2014 04:50	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199525	1	11/21/2014 04:50	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

 ${\rm H} \hspace{0.5cm} \hbox{ Holding times for preparation or analysis exceeded} \\$ 

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 28

Project Name: Clouds Chevron Collection Date: 11/13/2014 8:15:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-034 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260I	3		(	SW5030	0B)			
Benzene	BRL		0.39	1.0	ug/L	199525	1	11/21/2014 05:15	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199525	1	11/21/2014 05:15	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199525	1	11/21/2014 05:15	NP
Naphthalene	BRL		0.20	5.0	ug/L	199525	1	11/21/2014 05:15	NP
Toluene	BRL		0.38	1.0	ug/L	199525	1	11/21/2014 05:15	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199525	1	11/21/2014 05:15	NP
Surr: 4-Bromofluorobenzene	93.2		0	70-130	%REC	199525	1	11/21/2014 05:15	NP
Surr: Dibromofluoromethane	101		0	70-130	%REC	199525	1	11/21/2014 05:15	NP
Surr: Toluene-d8	96.9		0	70-130	%REC	199525	1	11/21/2014 05:15	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199525	1	11/21/2014 05:15	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199525	1	11/21/2014 05:15	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199525	1	11/21/2014 05:15	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 27

Project Name: Clouds Chevron Collection Date: 11/13/2014 8:30:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-035 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	BRL		0.39	1.0	ug/L	199525	1	11/21/2014 05:39	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199525	1	11/21/2014 05:39	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199525	1	11/21/2014 05:39	NP
Naphthalene	BRL		0.20	5.0	ug/L	199525	1	11/21/2014 05:39	NP
Toluene	BRL		0.38	1.0	ug/L	199525	1	11/21/2014 05:39	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199525	1	11/21/2014 05:39	NP
Surr: 4-Bromofluorobenzene	94.3		0	70-130	%REC	199525	1	11/21/2014 05:39	NP
Surr: Dibromofluoromethane	99.6		0	70-130	%REC	199525	1	11/21/2014 05:39	NP
Surr: Toluene-d8	96.3		0	70-130	%REC	199525	1	11/21/2014 05:39	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199525	1	11/21/2014 05:39	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199525	1	11/21/2014 05:39	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199525	1	11/21/2014 05:39	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

 $H \qquad \hbox{Holding times for preparation or analysis exceeded} \\$ 

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 22

Project Name: Clouds Chevron Collection Date: 11/13/2014 9:00:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-036 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	6300		190	500	ug/L	199525	500	11/21/2014 18:18	NP
Ethylbenzene	700		8.1	20	ug/L	199525	20	11/20/2014 17:44	NP
Methyl tert-butyl ether	BRL		8.5	20	ug/L	199525	20	11/20/2014 17:44	NP
Naphthalene	1200		4.0	100	ug/L	199525	20	11/20/2014 17:44	NP
Toluene	23000		190	500	ug/L	199525	500	11/21/2014 18:18	NP
Xylenes, Total	21000		410	500	ug/L	199525	500	11/21/2014 18:18	NP
Surr: 4-Bromofluorobenzene	101		0	70-130	%REC	199525	20	11/20/2014 17:44	NP
Surr: 4-Bromofluorobenzene	101		0	70-130	%REC	199525	500	11/21/2014 18:18	NP
Surr: Dibromofluoromethane	95.2		0	70-130	%REC	199525	500	11/21/2014 18:18	NP
Surr: Dibromofluoromethane	92.9		0	70-130	%REC	199525	20	11/20/2014 17:44	NP
Surr: Toluene-d8	94.7		0	70-130	%REC	199525	500	11/21/2014 18:18	NP
Surr: Toluene-d8	96		0	70-130	%REC	199525	20	11/20/2014 17:44	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	9600		190	2000	ug/L	199525	20	11/20/2014 17:44	NP
tert-Amyl methyl ether	BRL		20	200	ug/L	199525	20	11/20/2014 17:44	NP
tert-Butyl Alcohol	BRL		140	2000	ug/L	199525	20	11/20/2014 17:44	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Narr See case narrative

Page 45 of 86

Client: Crawford Environmental Services Client Sample ID: MW 5 AR

Project Name: Clouds Chevron Collection Date: 11/13/2014 9:15:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-037 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	<b>OB</b> )			
Benzene	830		3.9	10	ug/L	199525	10	11/24/2014 11:37	NP
Ethylbenzene	98		0.40	1.0	ug/L	199525	1	11/24/2014 11:12	NP
Methyl tert-butyl ether	13		0.42	1.0	ug/L	199525	1	11/24/2014 11:12	NP
Naphthalene	130		0.20	5.0	ug/L	199525	1	11/24/2014 11:12	NP
Toluene	180		0.38	1.0	ug/L	199525	1	11/24/2014 11:12	NP
Xylenes, Total	670		8.3	10	ug/L	199525	10	11/24/2014 11:37	NP
Surr: 4-Bromofluorobenzene	96.5		0	70-130	%REC	199525	10	11/24/2014 11:37	NP
Surr: 4-Bromofluorobenzene	101		0	70-130	%REC	199525	1	11/24/2014 11:12	NP
Surr: Dibromofluoromethane	93.3		0	70-130	%REC	199525	1	11/24/2014 11:12	NP
Surr: Dibromofluoromethane	98.1		0	70-130	%REC	199525	10	11/24/2014 11:37	NP
Surr: Toluene-d8	94.5		0	70-130	%REC	199525	10	11/24/2014 11:37	NP
Surr: Toluene-d8	98.1		0	70-130	%REC	199525	1	11/24/2014 11:12	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199525	1	11/24/2014 11:12	NP
tert-Amyl methyl ether	13		1.0	10	ug/L	199525	1	11/24/2014 11:12	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199525	1	11/24/2014 11:12	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 20

Project Name: Clouds Chevron Collection Date: 11/13/2014 9:30:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-038 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW5030	0B)			
Benzene	1400		39	100	ug/L	199525	100	11/21/2014 19:32	NP
Ethylbenzene	500		40	100	ug/L	199525	100	11/21/2014 19:32	NP
Methyl tert-butyl ether	120		42	100	ug/L	199525	100	11/21/2014 19:32	NP
Naphthalene	1100		20	500	ug/L	199525	100	11/21/2014 19:32	NP
Toluene	12000		38	100	ug/L	199525	100	11/21/2014 19:32	NP
Xylenes, Total	14000		83	100	ug/L	199525	100	11/21/2014 19:32	NP
Surr: 4-Bromofluorobenzene	101		0	70-130	%REC	199525	100	11/21/2014 19:32	NP
Surr: Dibromofluoromethane	96.4		0	70-130	%REC	199525	100	11/21/2014 19:32	NP
Surr: Toluene-d8	93.7		0	70-130	%REC	199525	100	11/21/2014 19:32	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		950	10000	ug/L	199525	100	11/20/2014 16:05	NP
tert-Amyl methyl ether	BRL		100	1000	ug/L	199525	100	11/20/2014 16:05	NP
tert-Butyl Alcohol	BRL		680	10000	ug/L	199525	100	11/20/2014 16:05	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: DW 14

Project Name: Clouds Chevron Collection Date: 11/13/2014 11:25:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-039 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260I	3		(	SW5030	)B)			
Benzene	BRL		0.39	1.0	ug/L	199525	1	11/21/2014 06:03	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199525	1	11/21/2014 06:03	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199525	1	11/21/2014 06:03	NP
Naphthalene	BRL		0.20	5.0	ug/L	199525	1	11/21/2014 06:03	NP
Toluene	1.0		0.38	1.0	ug/L	199525	1	11/21/2014 06:03	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199525	1	11/21/2014 06:03	NP
Surr: 4-Bromofluorobenzene	89.2		0	70-130	%REC	199525	1	11/21/2014 06:03	NP
Surr: Dibromofluoromethane	102		0	70-130	%REC	199525	1	11/21/2014 06:03	NP
Surr: Toluene-d8	98.6		0	70-130	%REC	199525	1	11/21/2014 06:03	NP
Oxygenates SW8260B				(	SW503	)B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199525	1	11/21/2014 06:03	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199525	1	11/21/2014 06:03	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199525	1	11/21/2014 06:03	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Narr See case narrative

Page 48 of 86

Client: Crawford Environmental Services Client Sample ID: DW 13

Project Name: Clouds Chevron Collection Date: 11/13/2014 12:00:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-040 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	2000		7.7	20	ug/L	199525	20	11/20/2014 18:33	NP
Ethylbenzene	2800		8.1	20	ug/L	199525	20	11/20/2014 18:33	NP
Methyl tert-butyl ether	23		8.5	20	ug/L	199525	20	11/20/2014 18:33	NP
Naphthalene	650		4.0	100	ug/L	199525	20	11/20/2014 18:33	NP
Toluene	20000		190	500	ug/L	199525	500	11/21/2014 18:43	NP
Xylenes, Total	10000		410	500	ug/L	199525	500	11/21/2014 18:43	NP
Surr: 4-Bromofluorobenzene	99		0	70-130	%REC	199525	500	11/21/2014 18:43	NP
Surr: 4-Bromofluorobenzene	97.8		0	70-130	%REC	199525	20	11/20/2014 18:33	NP
Surr: Dibromofluoromethane	96.3		0	70-130	%REC	199525	500	11/21/2014 18:43	NP
Surr: Dibromofluoromethane	91.3		0	70-130	%REC	199525	20	11/20/2014 18:33	NP
Surr: Toluene-d8	95.6		0	70-130	%REC	199525	500	11/21/2014 18:43	NP
Surr: Toluene-d8	94.3		0	70-130	%REC	199525	20	11/20/2014 18:33	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	2700		190	2000	ug/L	199525	20	11/20/2014 18:33	NP
tert-Amyl methyl ether	BRL		20	200	ug/L	199525	20	11/20/2014 18:33	NP
tert-Butyl Alcohol	BRL		140	2000	ug/L	199525	20	11/20/2014 18:33	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 23

Project Name: Clouds Chevron Collection Date: 11/13/2014 12:15:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-041 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260]	В		(	SW503	0B)			
Benzene	890		19	50	ug/L	199600	50	11/21/2014 20:46	NP
Ethylbenzene	450		20	50	ug/L	199600	50	11/21/2014 20:46	NP
Methyl tert-butyl ether	BRL		21	50	ug/L	199600	50	11/21/2014 20:46	NP
Naphthalene	1200		10	250	ug/L	199600	50	11/21/2014 20:46	NP
Toluene	3600		19	50	ug/L	199600	50	11/21/2014 20:46	NP
Xylenes, Total	16000		41	50	ug/L	199600	50	11/21/2014 20:46	NP
Surr: 4-Bromofluorobenzene	100		0	70-130	%REC	199600	50	11/21/2014 20:46	NP
Surr: Dibromofluoromethane	94.2		0	70-130	%REC	199600	50	11/21/2014 20:46	NP
Surr: Toluene-d8	95.2		0	70-130	%REC	199600	50	11/21/2014 20:46	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	1500	J	480	5000	ug/L	199600	50	11/21/2014 20:46	NP
tert-Amyl methyl ether	BRL		50	500	ug/L	199600	50	11/21/2014 20:46	NP
tert-Butyl Alcohol	BRL		340	5000	ug/L	199600	50	11/21/2014 20:46	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 19

Project Name: Clouds Chevron Collection Date: 11/13/2014 12:30:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-042 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW5030	0B)			
Benzene	1400		19	50	ug/L	199600	50	11/21/2014 00:19	NP
Ethylbenzene	1600		20	50	ug/L	199600	50	11/21/2014 00:19	NP
Methyl tert-butyl ether	BRL		21	50	ug/L	199600	50	11/21/2014 00:19	NP
Naphthalene	1400		10	250	ug/L	199600	50	11/21/2014 00:19	NP
Toluene	28000		190	500	ug/L	199600	500	11/21/2014 19:07	NP
Xylenes, Total	24000		41	50	ug/L	199600	50	11/21/2014 00:19	NP
Surr: 4-Bromofluorobenzene	96.8		0	70-130	%REC	199600	500	11/21/2014 19:07	NP
Surr: 4-Bromofluorobenzene	98.4		0	70-130	%REC	199600	50	11/21/2014 00:19	NP
Surr: Dibromofluoromethane	91.8		0	70-130	%REC	199600	50	11/21/2014 00:19	NP
Surr: Dibromofluoromethane	97.2		0	70-130	%REC	199600	500	11/21/2014 19:07	NP
Surr: Toluene-d8	93.8		0	70-130	%REC	199600	50	11/21/2014 00:19	NP
Surr: Toluene-d8	94.4		0	70-130	%REC	199600	500	11/21/2014 19:07	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	1300	J	480	5000	ug/L	199600	50	11/21/2014 00:19	NP
tert-Amyl methyl ether	BRL		50	500	ug/L	199600	50	11/21/2014 00:19	NP
tert-Butyl Alcohol	BRL		340	5000	ug/L	199600	50	11/21/2014 00:19	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 9

Project Name: Clouds Chevron Collection Date: 11/11/2014 9:40:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-043 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	380		39	100	ug/L	199600	100	11/21/2014 19:57	NP
Ethylbenzene	1900		40	100	ug/L	199600	100	11/21/2014 19:57	NP
Methyl tert-butyl ether	5.0		0.42	1.0	ug/L	199600	1	11/21/2014 06:28	NP
Naphthalene	650		20	500	ug/L	199600	100	11/21/2014 19:57	NP
Toluene	11000		38	100	ug/L	199600	100	11/21/2014 19:57	NP
Xylenes, Total	13000		83	100	ug/L	199600	100	11/21/2014 19:57	NP
Surr: 4-Bromofluorobenzene	99.8		0	70-130	%REC	199600	100	11/21/2014 19:57	NP
Surr: 4-Bromofluorobenzene	108		0	70-130	%REC	199600	1	11/21/2014 06:28	NP
Surr: Dibromofluoromethane	87.8		0	70-130	%REC	199600	1	11/21/2014 06:28	NP
Surr: Dibromofluoromethane	95.3		0	70-130	%REC	199600	100	11/21/2014 19:57	NP
Surr: Toluene-d8	94.4		0	70-130	%REC	199600	100	11/21/2014 19:57	NP
Surr: Toluene-d8	96.9		0	70-130	%REC	199600	1	11/21/2014 06:28	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	1100		9.5	100	ug/L	199600	1	11/21/2014 06:28	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199600	1	11/21/2014 06:28	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199600	1	11/21/2014 06:28	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Narr See case narrative

Page 52 of 86

Client: Crawford Environmental Services Client Sample ID: MW 13

Project Name: Clouds Chevron Collection Date: 11/11/2014 10:10:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-044 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	BRL		0.39	1.0	ug/L	199600	1	11/22/2014 15:30	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199600	1	11/22/2014 15:30	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199600	1	11/22/2014 15:30	NP
Naphthalene	BRL		0.20	5.0	ug/L	199600	1	11/22/2014 15:30	NP
Toluene	BRL		0.38	1.0	ug/L	199600	1	11/22/2014 15:30	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199600	1	11/22/2014 15:30	NP
Surr: 4-Bromofluorobenzene	92.9		0	70-130	%REC	199600	1	11/22/2014 15:30	NP
Surr: Dibromofluoromethane	100		0	70-130	%REC	199600	1	11/22/2014 15:30	NP
Surr: Toluene-d8	97		0	70-130	%REC	199600	1	11/22/2014 15:30	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	26	J	9.5	100	ug/L	199600	1	11/21/2014 06:52	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199600	1	11/21/2014 06:52	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199600	1	11/21/2014 06:52	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

 $H \qquad \hbox{Holding times for preparation or analysis exceeded} \\$ 

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: DW 7

Project Name: Clouds Chevron Collection Date: 11/11/2014 11:00:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-045 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	BRL		0.39	1.0	ug/L	199600	1	11/22/2014 15:54	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199600	1	11/22/2014 15:54	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199600	1	11/22/2014 15:54	NP
Naphthalene	BRL		0.20	5.0	ug/L	199600	1	11/22/2014 15:54	NP
Toluene	BRL		0.38	1.0	ug/L	199600	1	11/22/2014 15:54	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199600	1	11/22/2014 15:54	NP
Surr: 4-Bromofluorobenzene	92.8		0	70-130	%REC	199600	1	11/22/2014 15:54	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	199600	1	11/22/2014 15:54	NP
Surr: Toluene-d8	97		0	70-130	%REC	199600	1	11/22/2014 15:54	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199600	1	11/21/2014 07:17	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199600	1	11/21/2014 07:17	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199600	1	11/21/2014 07:17	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 12

Project Name: Clouds Chevron Collection Date: 11/11/2014 11:25:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-046 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	<b>OB</b> )			
Benzene	990		3.9	10	ug/L	199600	10	11/24/2014 12:27	NP
Ethylbenzene	910		4.0	10	ug/L	199600	10	11/24/2014 12:27	NP
Methyl tert-butyl ether	21		0.42	1.0	ug/L	199600	1	11/21/2014 07:42	NP
Naphthalene	180		2.0	50	ug/L	199600	10	11/24/2014 12:27	NP
Toluene	19		0.38	1.0	ug/L	199600	1	11/21/2014 07:42	NP
Xylenes, Total	140		0.83	1.0	ug/L	199600	1	11/21/2014 07:42	NP
Surr: 4-Bromofluorobenzene	99.1		0	70-130	%REC	199600	10	11/24/2014 12:27	NP
Surr: 4-Bromofluorobenzene	101		0	70-130	%REC	199600	1	11/21/2014 07:42	NP
Surr: Dibromofluoromethane	90.8		0	70-130	%REC	199600	1	11/21/2014 07:42	NP
Surr: Dibromofluoromethane	96.1		0	70-130	%REC	199600	10	11/24/2014 12:27	NP
Surr: Toluene-d8	95.2		0	70-130	%REC	199600	10	11/24/2014 12:27	NP
Surr: Toluene-d8	96.7		0	70-130	%REC	199600	1	11/21/2014 07:42	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	3600		9.5	100	ug/L	199600	1	11/21/2014 07:42	NP
tert-Amyl methyl ether	14		1.0	10	ug/L	199600	1	11/21/2014 07:42	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199600	1	11/21/2014 07:42	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 29

Project Name: Clouds Chevron Collection Date: 11/13/2014 8:00:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-047 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260I	3		(	SW5030	0B)			
Benzene	BRL		0.39	1.0	ug/L	199600	1	11/21/2014 13:22	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199600	1	11/21/2014 13:22	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199600	1	11/21/2014 13:22	NP
Naphthalene	BRL		0.20	5.0	ug/L	199600	1	11/21/2014 13:22	NP
Toluene	BRL		0.38	1.0	ug/L	199600	1	11/21/2014 13:22	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199600	1	11/21/2014 13:22	NP
Surr: 4-Bromofluorobenzene	90.2		0	70-130	%REC	199600	1	11/21/2014 13:22	NP
Surr: Dibromofluoromethane	101		0	70-130	%REC	199600	1	11/21/2014 13:22	NP
Surr: Toluene-d8	95.3		0	70-130	%REC	199600	1	11/21/2014 13:22	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199600	1	11/21/2014 13:22	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199600	1	11/21/2014 13:22	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199600	1	11/21/2014 13:22	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 59

Project Name: Clouds Chevron Collection Date: 11/11/2014 11:35:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-048 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	0B)			
Benzene	81		0.39	1.0	ug/L	199600	1	11/21/2014 13:47	NP
Ethylbenzene	730		4.0	10	ug/L	199600	10	11/24/2014 12:52	NP
Methyl tert-butyl ether	91		0.42	1.0	ug/L	199600	1	11/21/2014 13:47	NP
Naphthalene	96		0.20	5.0	ug/L	199600	1	11/21/2014 13:47	NP
Toluene	3.6		0.38	1.0	ug/L	199600	1	11/21/2014 13:47	NP
Xylenes, Total	14		0.83	1.0	ug/L	199600	1	11/21/2014 13:47	NP
Surr: 4-Bromofluorobenzene	97.3		0	70-130	%REC	199600	10	11/24/2014 12:52	NP
Surr: 4-Bromofluorobenzene	100		0	70-130	%REC	199600	1	11/21/2014 13:47	NP
Surr: Dibromofluoromethane	93.3		0	70-130	%REC	199600	1	11/21/2014 13:47	NP
Surr: Dibromofluoromethane	97.2		0	70-130	%REC	199600	10	11/24/2014 12:52	NP
Surr: Toluene-d8	95.4		0	70-130	%REC	199600	10	11/24/2014 12:52	NP
Surr: Toluene-d8	97.6		0	70-130	%REC	199600	1	11/21/2014 13:47	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	4500		9.5	100	ug/L	199600	1	11/21/2014 13:47	NP
tert-Amyl methyl ether	27		1.0	10	ug/L	199600	1	11/21/2014 13:47	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199600	1	11/21/2014 13:47	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

 ${\rm H} \hspace{0.5cm} \hbox{ Holding times for preparation or analysis exceeded} \\$ 

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 53

Project Name: Clouds Chevron Collection Date: 11/11/2014 12:15:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-049 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	BRL		0.39	1.0	ug/L	199600	1	11/24/2014 09:59	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199600	1	11/24/2014 09:59	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199600	1	11/24/2014 09:59	NP
Naphthalene	BRL		0.20	5.0	ug/L	199600	1	11/24/2014 09:59	NP
Toluene	BRL		0.38	1.0	ug/L	199600	1	11/24/2014 09:59	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199600	1	11/24/2014 09:59	NP
Surr: 4-Bromofluorobenzene	91.9		0	70-130	%REC	199600	1	11/24/2014 09:59	NP
Surr: Dibromofluoromethane	100		0	70-130	%REC	199600	1	11/24/2014 09:59	NP
Surr: Toluene-d8	98.6		0	70-130	%REC	199600	1	11/24/2014 09:59	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199600	1	11/24/2014 09:59	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199600	1	11/24/2014 09:59	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199600	1	11/24/2014 09:59	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 11

Project Name: Clouds Chevron Collection Date: 11/11/2014 12:30:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-050 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	0.53	J	0.39	1.0	ug/L	199600	1	11/21/2014 14:36	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199600	1	11/21/2014 14:36	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199600	1	11/21/2014 14:36	NP
Naphthalene	BRL		0.20	5.0	ug/L	199600	1	11/21/2014 14:36	NP
Toluene	BRL		0.38	1.0	ug/L	199600	1	11/21/2014 14:36	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199600	1	11/21/2014 14:36	NP
Surr: 4-Bromofluorobenzene	92.1		0	70-130	%REC	199600	1	11/21/2014 14:36	NP
Surr: Dibromofluoromethane	97.2		0	70-130	%REC	199600	1	11/21/2014 14:36	NP
Surr: Toluene-d8	97.4		0	70-130	%REC	199600	1	11/21/2014 14:36	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	80	J	9.5	100	ug/L	199600	1	11/21/2014 14:36	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199600	1	11/21/2014 14:36	NP
tert-Butyl Alcohol	58	J	6.8	100	ug/L	199600	1	11/21/2014 14:36	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 51

Project Name: Clouds Chevron Collection Date: 11/11/2014 12:40:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-051 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	<b>OB</b> )			
Benzene	BRL		0.39	1.0	ug/L	199600	1	11/21/2014 15:01	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199600	1	11/21/2014 15:01	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199600	1	11/21/2014 15:01	NP
Naphthalene	BRL		0.20	5.0	ug/L	199600	1	11/21/2014 15:01	NP
Toluene	BRL		0.38	1.0	ug/L	199600	1	11/21/2014 15:01	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199600	1	11/21/2014 15:01	NP
Surr: 4-Bromofluorobenzene	90.5		0	70-130	%REC	199600	1	11/21/2014 15:01	NP
Surr: Dibromofluoromethane	101		0	70-130	%REC	199600	1	11/21/2014 15:01	NP
Surr: Toluene-d8	96		0	70-130	%REC	199600	1	11/21/2014 15:01	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199600	1	11/21/2014 15:01	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199600	1	11/21/2014 15:01	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199600	1	11/21/2014 15:01	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Narr See case narrative

Page 60 of 86

Client: Crawford Environmental Services Client Sample ID: MW 43

Project Name: Clouds Chevron Collection Date: 11/11/2014 8:00:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-052 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	3		(	SW5030	0B)			
Benzene	BRL		0.39	1.0	ug/L	199600	1	11/21/2014 15:25	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199600	1	11/21/2014 15:25	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199600	1	11/21/2014 15:25	NP
Naphthalene	BRL		0.20	5.0	ug/L	199600	1	11/21/2014 15:25	NP
Toluene	BRL		0.38	1.0	ug/L	199600	1	11/21/2014 15:25	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199600	1	11/21/2014 15:25	NP
Surr: 4-Bromofluorobenzene	91.3		0	70-130	%REC	199600	1	11/21/2014 15:25	NP
Surr: Dibromofluoromethane	101		0	70-130	%REC	199600	1	11/21/2014 15:25	NP
Surr: Toluene-d8	95.4		0	70-130	%REC	199600	1	11/21/2014 15:25	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199600	1	11/21/2014 15:25	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199600	1	11/21/2014 15:25	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199600	1	11/21/2014 15:25	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 15

Project Name: Clouds Chevron Collection Date: 11/11/2014 10:25:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-053 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	<b>OB</b> )			
Benzene	40		3.9	10	ug/L	199600	10	11/24/2014 14:06	NP
Ethylbenzene	1200		4.0	10	ug/L	199600	10	11/24/2014 14:06	NP
Methyl tert-butyl ether	BRL		4.2	10	ug/L	199600	10	11/24/2014 14:06	NP
Naphthalene	1300		2.0	50	ug/L	199600	10	11/24/2014 14:06	NP
Toluene	6300		19	50	ug/L	199600	50	11/21/2014 00:44	NP
Xylenes, Total	16000		41	50	ug/L	199600	50	11/21/2014 00:44	NP
Surr: 4-Bromofluorobenzene	103		0	70-130	%REC	199600	50	11/21/2014 00:44	NP
Surr: 4-Bromofluorobenzene	100		0	70-130	%REC	199600	10	11/24/2014 14:06	NP
Surr: Dibromofluoromethane	93.1		0	70-130	%REC	199600	50	11/21/2014 00:44	NP
Surr: Dibromofluoromethane	91.5		0	70-130	%REC	199600	10	11/24/2014 14:06	NP
Surr: Toluene-d8	94.5		0	70-130	%REC	199600	50	11/21/2014 00:44	NP
Surr: Toluene-d8	95.7		0	70-130	%REC	199600	10	11/24/2014 14:06	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	400	J	95	1000	ug/L	199600	10	11/24/2014 14:06	NP
tert-Amyl methyl ether	BRL		10	100	ug/L	199600	10	11/24/2014 14:06	NP
tert-Butyl Alcohol	BRL		68	1000	ug/L	199600	10	11/24/2014 14:06	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 25

Project Name: Clouds Chevron Collection Date: 11/13/2014 8:45:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-054 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	38		0.39	1.0	ug/L	199600	1	11/24/2014 14:55	NP
Ethylbenzene	200		20	50	ug/L	199600	50	11/21/2014 01:08	NP
Methyl tert-butyl ether	1.9		0.42	1.0	ug/L	199600	1	11/24/2014 14:55	NP
Naphthalene	490		10	250	ug/L	199600	50	11/21/2014 01:08	NP
Toluene	140		0.38	1.0	ug/L	199600	1	11/24/2014 14:55	NP
Xylenes, Total	2600		41	50	ug/L	199600	50	11/21/2014 01:08	NP
Surr: 4-Bromofluorobenzene	97.6		0	70-130	%REC	199600	50	11/21/2014 01:08	NP
Surr: 4-Bromofluorobenzene	106		0	70-130	%REC	199600	1	11/24/2014 14:55	NP
Surr: Dibromofluoromethane	94.7		0	70-130	%REC	199600	50	11/21/2014 01:08	NP
Surr: Dibromofluoromethane	89.2		0	70-130	%REC	199600	1	11/24/2014 14:55	NP
Surr: Toluene-d8	94.3		0	70-130	%REC	199600	50	11/21/2014 01:08	NP
Surr: Toluene-d8	96		0	70-130	%REC	199600	1	11/24/2014 14:55	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	2800		9.5	100	ug/L	199600	1	11/24/2014 14:55	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199600	1	11/24/2014 14:55	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199600	1	11/24/2014 14:55	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: PW R-1

Project Name: Clouds Chevron Collection Date: 11/12/2014 10:30:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-055 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	850		19	50	ug/L	199600	50	11/21/2014 21:11	NP
Ethylbenzene	580		20	50	ug/L	199600	50	11/21/2014 21:11	NP
Methyl tert-butyl ether	BRL		21	50	ug/L	199600	50	11/21/2014 21:11	NP
Naphthalene	1300		10	250	ug/L	199600	50	11/21/2014 21:11	NP
Toluene	6900		19	50	ug/L	199600	50	11/21/2014 21:11	NP
Xylenes, Total	18000		41	50	ug/L	199600	50	11/21/2014 21:11	NP
Surr: 4-Bromofluorobenzene	102		0	70-130	%REC	199600	50	11/21/2014 21:11	NP
Surr: Dibromofluoromethane	91.7		0	70-130	%REC	199600	50	11/21/2014 21:11	NP
Surr: Toluene-d8	96.3		0	70-130	%REC	199600	50	11/21/2014 21:11	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		480	5000	ug/L	199600	50	11/21/2014 21:11	NP
tert-Amyl methyl ether	BRL		50	500	ug/L	199600	50	11/21/2014 21:11	NP
tert-Butyl Alcohol	BRL		340	5000	ug/L	199600	50	11/21/2014 21:11	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: DW 9

Project Name: Clouds Chevron Collection Date: 11/11/2014 12:00:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-056 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	BRL		0.39	1.0	ug/L	199600	1	11/21/2014 15:50	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199600	1	11/21/2014 15:50	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199600	1	11/21/2014 15:50	NP
Naphthalene	BRL		0.20	5.0	ug/L	199600	1	11/21/2014 15:50	NP
Toluene	2.8		0.38	1.0	ug/L	199600	1	11/21/2014 15:50	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199600	1	11/21/2014 15:50	NP
Surr: 4-Bromofluorobenzene	93.3		0	70-130	%REC	199600	1	11/21/2014 15:50	NP
Surr: Dibromofluoromethane	102		0	70-130	%REC	199600	1	11/21/2014 15:50	NP
Surr: Toluene-d8	95.5		0	70-130	%REC	199600	1	11/21/2014 15:50	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199600	1	11/21/2014 15:50	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199600	1	11/21/2014 15:50	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199600	1	11/21/2014 15:50	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Narr See case narrative

Page 65 of 86

Client: Crawford Environmental Services Client Sample ID: MW 2

Project Name: Clouds Chevron Collection Date: 11/11/2014 3:30:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-057 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	140		0.39	1.0	ug/L	199600	1	11/21/2014 16:15	NP
Ethylbenzene	220		4.0	10	ug/L	199600	10	11/24/2014 13:17	NP
Methyl tert-butyl ether	410		4.2	10	ug/L	199600	10	11/24/2014 13:17	NP
Naphthalene	160		2.0	50	ug/L	199600	10	11/24/2014 13:17	NP
Toluene	300		3.8	10	ug/L	199600	10	11/24/2014 13:17	NP
Xylenes, Total	1300		8.3	10	ug/L	199600	10	11/24/2014 13:17	NP
Surr: 4-Bromofluorobenzene	100		0	70-130	%REC	199600	10	11/24/2014 13:17	NP
Surr: 4-Bromofluorobenzene	105		0	70-130	%REC	199600	1	11/21/2014 16:15	NP
Surr: Dibromofluoromethane	94.2		0	70-130	%REC	199600	1	11/21/2014 16:15	NP
Surr: Dibromofluoromethane	95.8		0	70-130	%REC	199600	10	11/24/2014 13:17	NP
Surr: Toluene-d8	95.3		0	70-130	%REC	199600	10	11/24/2014 13:17	NP
Surr: Toluene-d8	98.6		0	70-130	%REC	199600	1	11/21/2014 16:15	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	210		9.5	100	ug/L	199600	1	11/21/2014 16:15	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199600	1	11/21/2014 16:15	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199600	1	11/21/2014 16:15	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: DW 1

Project Name: Clouds Chevron Collection Date: 11/11/2014 3:20:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-058 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	BRL		0.39	1.0	ug/L	199600	1	11/24/2014 10:23	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199600	1	11/24/2014 10:23	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199600	1	11/24/2014 10:23	NP
Naphthalene	BRL		0.20	5.0	ug/L	199600	1	11/24/2014 10:23	NP
Toluene	BRL		0.38	1.0	ug/L	199600	1	11/24/2014 10:23	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199600	1	11/24/2014 10:23	NP
Surr: 4-Bromofluorobenzene	92.6		0	70-130	%REC	199600	1	11/24/2014 10:23	NP
Surr: Dibromofluoromethane	100		0	70-130	%REC	199600	1	11/24/2014 10:23	NP
Surr: Toluene-d8	95.6		0	70-130	%REC	199600	1	11/24/2014 10:23	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199600	1	11/21/2014 16:39	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199600	1	11/21/2014 16:39	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199600	1	11/21/2014 16:39	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

 $H \qquad \hbox{Holding times for preparation or analysis exceeded} \\$ 

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: MW 41

Project Name: Clouds Chevron Collection Date: 11/11/2014 4:30:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-059 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260]	В		(	SW503	0B)			
Benzene	BRL		0.39	1.0	ug/L	199600	1	11/21/2014 17:03	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199600	1	11/21/2014 17:03	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199600	1	11/21/2014 17:03	NP
Naphthalene	BRL		0.20	5.0	ug/L	199600	1	11/21/2014 17:03	NP
Toluene	BRL		0.38	1.0	ug/L	199600	1	11/21/2014 17:03	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199600	1	11/21/2014 17:03	NP
Surr: 4-Bromofluorobenzene	95.2		0	70-130	%REC	199600	1	11/21/2014 17:03	NP
Surr: Dibromofluoromethane	96.5		0	70-130	%REC	199600	1	11/21/2014 17:03	NP
Surr: Toluene-d8	94.7		0	70-130	%REC	199600	1	11/21/2014 17:03	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199600	1	11/21/2014 17:03	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199600	1	11/21/2014 17:03	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199600	1	11/21/2014 17:03	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: DUP 1

Project Name: Clouds Chevron Collection Date: 11/11/2014 3:30:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-060 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	130		0.39	1.0	ug/L	199600	1	11/21/2014 17:28	NP
Ethylbenzene	200		4.0	10	ug/L	199600	10	11/24/2014 13:41	NP
Methyl tert-butyl ether	400		4.2	10	ug/L	199600	10	11/24/2014 13:41	NP
Naphthalene	150		2.0	50	ug/L	199600	10	11/24/2014 13:41	NP
Toluene	280		3.8	10	ug/L	199600	10	11/24/2014 13:41	NP
Xylenes, Total	1200		8.3	10	ug/L	199600	10	11/24/2014 13:41	NP
Surr: 4-Bromofluorobenzene	98.3		0	70-130	%REC	199600	10	11/24/2014 13:41	NP
Surr: 4-Bromofluorobenzene	103		0	70-130	%REC	199600	1	11/21/2014 17:28	NP
Surr: Dibromofluoromethane	93.3		0	70-130	%REC	199600	1	11/21/2014 17:28	NP
Surr: Dibromofluoromethane	95.3		0	70-130	%REC	199600	10	11/24/2014 13:41	NP
Surr: Toluene-d8	95.5		0	70-130	%REC	199600	10	11/24/2014 13:41	NP
Surr: Toluene-d8	97.9		0	70-130	%REC	199600	1	11/21/2014 17:28	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	200		9.5	100	ug/L	199600	1	11/21/2014 17:28	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199600	1	11/21/2014 17:28	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199600	1	11/21/2014 17:28	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: DUP 2

Project Name: Clouds Chevron Collection Date: 11/12/2014 4:00:00 PM

Date:

25-Nov-14

Lab ID: 1411D32-061 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	BRL		0.39	1.0	ug/L	199640	1	11/24/2014 10:48	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199640	1	11/24/2014 10:48	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199640	1	11/24/2014 10:48	NP
Naphthalene	BRL		0.20	5.0	ug/L	199640	1	11/24/2014 10:48	NP
Toluene	BRL		0.38	1.0	ug/L	199640	1	11/24/2014 10:48	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199640	1	11/24/2014 10:48	NP
Surr: 4-Bromofluorobenzene	92.3		0	70-130	%REC	199640	1	11/24/2014 10:48	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	199640	1	11/24/2014 10:48	NP
Surr: Toluene-d8	97.4		0	70-130	%REC	199640	1	11/24/2014 10:48	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199640	1	11/21/2014 17:53	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199640	1	11/21/2014 17:53	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199640	1	11/21/2014 17:53	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

 ${\rm H} \hspace{0.5cm} \hbox{ Holding times for preparation or analysis exceeded} \\$ 

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: DUP 3

Project Name: Clouds Chevron Collection Date: 11/13/2014 8:45:00 AM

Date:

25-Nov-14

Lab ID: 1411D32-062 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	0B)			
Benzene	35		0.39	1.0	ug/L	199640	1	11/24/2014 15:20	NP
Ethylbenzene	220		20	50	ug/L	199640	50	11/21/2014 12:58	NP
Methyl tert-butyl ether	1.8		0.42	1.0	ug/L	199640	1	11/24/2014 15:20	NP
Naphthalene	460		10	250	ug/L	199640	50	11/21/2014 12:58	NP
Toluene	170		0.38	1.0	ug/L	199640	1	11/24/2014 15:20	NP
Xylenes, Total	2900		41	50	ug/L	199640	50	11/21/2014 12:58	NP
Surr: 4-Bromofluorobenzene	98		0	70-130	%REC	199640	50	11/21/2014 12:58	NP
Surr: 4-Bromofluorobenzene	106		0	70-130	%REC	199640	1	11/24/2014 15:20	NP
Surr: Dibromofluoromethane	97.2		0	70-130	%REC	199640	50	11/21/2014 12:58	NP
Surr: Dibromofluoromethane	89.5		0	70-130	%REC	199640	1	11/24/2014 15:20	NP
Surr: Toluene-d8	95.5		0	70-130	%REC	199640	50	11/21/2014 12:58	NP
Surr: Toluene-d8	98		0	70-130	%REC	199640	1	11/24/2014 15:20	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	2800		9.5	100	ug/L	199640	1	11/24/2014 15:20	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199640	1	11/24/2014 15:20	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199640	1	11/24/2014 15:20	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

 $H \qquad \hbox{Holding times for preparation or analysis exceeded} \\$ 

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value < Less than Result value

Client:Crawford Environmental ServicesClient Sample ID:TRIP BLANKProject Name:Clouds ChevronCollection Date:11/15/2014

Project Name:Clouds ChevronCollection Date:11/15/2014Lab ID:1411D32-063Matrix:Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	)B)			
Benzene	BRL		0.39	1.0	ug/L	199640	1	11/21/2014 11:43	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199640	1	11/21/2014 11:43	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199640	1	11/21/2014 11:43	NP
Naphthalene	BRL		0.20	5.0	ug/L	199640	1	11/21/2014 11:43	NP
Toluene	BRL		0.38	1.0	ug/L	199640	1	11/21/2014 11:43	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199640	1	11/21/2014 11:43	NP
Surr: 4-Bromofluorobenzene	94.4		0	70-130	%REC	199640	1	11/21/2014 11:43	NP
Surr: Dibromofluoromethane	98.5		0	70-130	%REC	199640	1	11/21/2014 11:43	NP
Surr: Toluene-d8	94.8		0	70-130	%REC	199640	1	11/21/2014 11:43	NP
Oxygenates SW8260B				(	SW503	)B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199640	1	11/21/2014 11:43	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199640	1	11/21/2014 11:43	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199640	1	11/21/2014 11:43	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

Date:

25-Nov-14

> Greater than Result value < Less than Result value

Client: Crawford Environmental Services Client Sample ID: TRIP BLANK II

Project Name:Clouds ChevronCollection Date:11/15/2014Lab ID:1411D32-064Matrix:Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260I	3		(	SW5030	0B)			
Benzene	BRL		0.39	1.0	ug/L	199640	1	11/21/2014 12:08	NP
Ethylbenzene	BRL		0.40	1.0	ug/L	199640	1	11/21/2014 12:08	NP
Methyl tert-butyl ether	BRL		0.42	1.0	ug/L	199640	1	11/21/2014 12:08	NP
Naphthalene	BRL		0.20	5.0	ug/L	199640	1	11/21/2014 12:08	NP
Toluene	BRL		0.38	1.0	ug/L	199640	1	11/21/2014 12:08	NP
Xylenes, Total	BRL		0.83	1.0	ug/L	199640	1	11/21/2014 12:08	NP
Surr: 4-Bromofluorobenzene	89.5		0	70-130	%REC	199640	1	11/21/2014 12:08	NP
Surr: Dibromofluoromethane	99.9		0	70-130	%REC	199640	1	11/21/2014 12:08	NP
Surr: Toluene-d8	95.1		0	70-130	%REC	199640	1	11/21/2014 12:08	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		9.5	100	ug/L	199640	1	11/21/2014 12:08	NP
tert-Amyl methyl ether	BRL		1.0	10	ug/L	199640	1	11/21/2014 12:08	NP
tert-Butyl Alcohol	BRL		6.8	100	ug/L	199640	1	11/21/2014 12:08	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

Date:

25-Nov-14

> Greater than Result value < Less than Result value

# Sample/Cooler Receipt Checklist

Client Accels		Work Order	Number <u>/4/1032</u>	
Checklist completed by N810 Date	15/14			
Carrier name: FedEx UPS Courier Client US	Mail Other	5 <u> </u>	_	$\mathfrak{e}_{\gamma_2}$
Shipping container/cooler in good condition?	Yes 🗹	No	Not Present	
Custody seals intact on shipping container/cooler?	Yes	No	Not Present	
Custody seals intact on sample bottles?	Yes	No	Not Present	
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes _	No	9	
Cooler #1 1.9 Cooler #2 Cooler #3	_ Cooler #4 _	Coc	oler#5 Cooler #6	· · · · · · · · · · · · · · · · · · ·
Chain of custody present?	Yes 🗹	No		
Chain of custody signed when relinquished and received?	Yes 🗹	No		
Chain of custody agrees with sample labels?	Yes 🗹	No		
Samples in proper container/bottle?	Yes 🖊	No		
Sample containers intact?	Yes 🖊	No		9
Sufficient sample volume for indicated test?	Yes 🗹	No		
All samples received within holding time?	Yes 🗹	No		
Was TAT marked on the COC?	Yes 🖊	No		
Proceed with Standard TAT as per project history?	Yes	No	Not Applicable	
Water - VOA vials have zero headspace? No VOA vials su	bmitted	Yes 🖊	No	
Water - pH acceptable upon receipt?	Yes /	No	Not Applicable	
Adjusted?				
Sample Condition: Good Other(Explain)	3.40			
(For diffusive samples or AIHA lead) Is a known blank includ	ed? Yes	_ ^	10/	

See Case Narrative for resolution of the Non-Conformance.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample-Receipt Checklists\Sample_Cooler_Receipt_Checklist

^{*} Samples do not have to comply with the given range for certain parameters.

**Date:** 28-Nov-14

Client: Crawford Environmental Services

ANALYTICAL QC SUMMARY REPORT Project Name: Clouds Chevron Workorder: 1411D32 BatchID: 199515

Sample ID: MB-199515 SampleType: MBLK	Client ID: TestCode:	Volatile Organic Compou	ads by GC/MS	SW8260B	Uni Bat	its: ug/L chID: 199515		Date: 11/	19/2014 19/2014	Run No: 28040 Seq No: 59292	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	45.18	0	50.00		90.4	70	130				
Surr: Dibromofluoromethane	49.47	0	50.00		98.9	70	130				
Surr: Toluene-d8	47.42	0	50.00		94.8	70	130				
Sample ID: MB-199515 SampleType: MBLK	Client ID: TestCode:	Oxygenates SW8260B			Uni Bat	its: ug/L chID: 199515		Date: 11/	19/2014 19/2014	Run No: <b>28040</b> 0 Seq No: <b>59293</b>	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
Sample ID: LCS-199515	Client ID:				Uni	its: ug/L	Prej	Date: 11/	19/2014	Run No: 28040	0
SampleType: LCS	TestCode:	Volatile Organic Compour	nds by GC/MS	SW8260B	Bat	chID: 199515	Ana	lysis Date: 11/	19/2014	Seq No: 59292	36
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	49.86	1.0	50.00		99.7	70	130				
Ethylbenzene	52.02	1.0	50.00		104	70	130				
Naphthalene	44.06	5.0	50.00		88.1	70	130				
Toluene	50.55	1.0	50.00		101	70	130				
Xylenes, Total	154.5	1.0	150.0		103	70	130				
Surr: 4-Bromofluorobenzene	48.92	0	50.00		97.8	70	130				
Qualifiers: > Greater than Result v	alue		< Less	than Result value			В	Analyte detected in the	associated method	blank	

Greater than Result value

BRL Below reporting limit

Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Page 75 of 86

Client: Crawford Environmental Services

ANALYTICAL QC SUMMARY REPORT

**Date:** 28-Nov-14

Project Name: Clouds Chevron Workorder: 1411D32

BatchID: 199515

Sample ID: LCS-199515 SampleType: LCS	Client ID:	Volatile Organic Compo	unds by GC/MS	SW8260B	Un	its: ug/L		Date:	11/19/2014	Run No: 28040 Seq No: 59292	
SampleType. LCS	resicode.	volatile Organic Compo	unds by Gerins	5110200D	Dat	CIII). 199313	Alla	iysis Date.	11/19/2014	Seq 10. 3929.	230
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPI	RPD Limit	Qual
Surr: Dibromofluoromethane	48.70	0	50.00		97.4	70	130				
Surr: Toluene-d8	47.23	0	50.00		94.5	70	130				
Sample ID: LCS-199515	Client ID:				Un	its: ug/L	Prej	Date:	11/19/2014	Run No: 28040	00
SampleType: LCS	TestCode:	Oxygenates SW82601	В		Bat	chID: 199515	Ana	lysis Date:	11/19/2014	Seq No: 59293	311
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPI	RPD Limit	Qual
tert-Amyl alcohol	1013	100	1000		101	70	130				
tert-Amyl methyl ether	217.6	10	200.0		109	70	130				
tert-Butyl Alcohol	973.0	100	1000		97.3	70	130				
Sample ID: 1411D32-002AMS	Client ID:	MW 18			Un	its: ug/L	Prej	Date:	11/19/2014	Run No: 2804	14
SampleType: MS	TestCode:	Volatile Organic Compo	unds by GC/MS	SW8260B	Bat	chID: 199515	Ana	lysis Date:	11/20/2014	Seq No: 59300	)99
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPI	RPD Limit	Qual
Benzene	8629	100	5000	3115	110	70.2	138				
Ethylbenzene	6136	100	5000	558.0	112	71.9	133				
Naphthalene	5000	500	5000	288.0	94.2	54.6	130				
Toluene	16220	100	5000	10530	114	70	139				
Xylenes, Total	25820	100	15000	8710	114	70.7	136				
Surr: 4-Bromofluorobenzene	5114	0	5000		102	70	130				
Surr: Dibromofluoromethane	4977	0	5000		99.5	70	130				
Surr: Toluene-d8	4838	0	5000		96.8	70	130				
Sample ID: 1411D32-002AMS	Client ID:				Un	its: ug/L	Prej	Date:	11/19/2014	Run No: 2804	14
SampleType: MS	TestCode:	Oxygenates SW82601	В		Bat	chID: 199515	Ana	lysis Date:	11/20/2014	Seq No: 59322	243
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPI	O RPD Limit	Qual

Qualifiers:

Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Page 76 of 86

Client: Crawford Environmental Services

ANALYTICAL QC SUMMARY REPORT

**Date:** 28-Nov-14

Project Name: Clouds Chevron Workorder: 1411D32

BatchID: 199515

Sample ID: 1411D32-002AMS SampleType: MS	Client ID: TestCode:	MW 18 Oxygenates SW8260B	ı		Uni Bat	ts: ug/L chID: 199515	1000000 B	Date: 11/19/ allysis Date: 11/20/		Run No: 280414 Seq No: 5932243
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
tert-Amyl alcohol	125100	10000	100000	11570	114	54.6	145			
tert-Amyl methyl ether	22130	1000	20000		111	71.1	129			
tert-Butyl Alcohol	106100	10000	100000		106	50.3	149			
Sample ID: 1411D32-002AMSD SampleType: MSD	Client ID: TestCode:	MW 18 Volatile Organic Compou	ands by GC/MS	SW8260B	Uni Bat	ts: ug/L chID: 199515		Date: 11/19/ allysis Date: 11/20/		Run No: 280414 Seq No: 5930125
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Benzene	8483	100	5000	3115	107	70.2	138	8629	1.71	20
Ethylbenzene	6077	100	5000	558.0	110	71.9	133	6136	0.966	20
Naphthalene	5342	500	5000	288.0	101	54.6	130	5000	6.61	21.4
Toluene	15820	100	5000	10530	106	70	139	16220	2.48	20
Xylenes, Total	25490	100	15000	8710	112	70.7	136	25820	1.28	20
Surr: 4-Bromofluorobenzene	4987	0	5000		99.7	70	130	5114	0	0
Surr: Dibromofluoromethane	4918	0	5000		98.4	70	130	4977	0	0
Surr: Toluene-d8	4840	0	5000		96.8	70	130	4838	0	0
Sample ID: 1411D32-002AMSD	Client ID:	MW 18			Uni	ts: ug/L	Prej	Date: 11/19/	2014	Run No: 280414
SampleType: MSD	TestCode:	Oxygenates SW8260B	•		Bat	chID: 199515	Ana	alysis Date: 11/20/	2014	Seq No: 5932244
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
tert-Amyl alcohol	129300	10000	100000	11570	118	54.6	145	125100	3.33	23.5
tert-Amyl methyl ether	21720	1000	20000		109	71.1	129	22130	1.87	20
tert-Butyl Alcohol	116100	10000	100000		116	50.3	149	106100	9.01	33.5

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Page 77 of 86

Crawford Environmental Services

ANALYTICAL QC SUMMARY REPORT

**Date:** 28-Nov-14

Project Name: Clouds Chevron Workorder: 1411D32

BatchID: 199525

Sample ID: MB-199525 SampleType: MBLK	Client ID: TestCode: Vol	atile Organic Compou	ands by GC/MS	SW8260B	Un Bat	its: ug/L chID: 199525	A	Date: 11/2 llysis Date: 11/2		Run No: 2 Seq No: 3	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD I	Limit Qua
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
Γoluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	44.80	0	50.00		89.6	70	130				
Surr: Dibromofluoromethane	50.29	0	50.00		101	70	130				
Surr: Toluene-d8	47.24	0	50.00		94.5	70	130				
Sample ID: MB-199525 SampleType: MBLK	Client ID: TestCode: Oxy	genates SW8260B	1		Un: Bat	its: ug/L chID: 199525		Date: 11/2 llysis Date: 11/2		Run No: 2 Seq No: 5	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD I	Limit Qua
tert-Amyl alcohol	BRL	100									
ert-Amyl methyl ether	BRL	10									
ert-Butyl Alcohol	BRL	100									
Sample ID: LCS-199525	Client ID:				Un	its: ug/L	Prep	Date: 11/2	0/2014	Run No: 2	280414
SampleType: LCS	TestCode: Vol	atile Organic Compou	inds by GC/MS	SW8260B	Bat	chID: 199525	Ana	lysis Date: 11/2	0/2014	Seq No:	5929756
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD I	Limit Qua
Benzene	55.41	1.0	50.00		111	70	130				
Ethylbenzene	57.65	1.0	50.00		115	70	130				
Vaphthalene	50.46	5.0	50.00		101	70	130				
Toluene	56.83	1.0	50.00		114	70	130				
Kylenes, Total	171.3	1.0	150.0		114	70	130				
Surr: 4-Bromofluorobenzene	49.12	0	50.00		98.2	70	130				
Qualifiers: > Greater than Result v	alue		< Less	than Result value			В	Analyte detected in the a	ssociated method	olank	

BRL Below reporting limit

Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Page 78 of 86

Crawford Environmental Services

ANALYTICAL QC SUMMARY REPORT

**Date:** 28-Nov-14

Clouds Chevron Project Name: Workorder: 1411D32

BatchID: 199525

Sample ID: LCS-199525	Client ID:				Un		2000000	P. Control Special Controls	/20/2014	Run No:	
SampleType: LCS	TestCode:	Volatile Organic Compou	mds by GC/MS	SW8260B	Bat	tchID: 199525	Ana	alysis Date: 11	/20/2014	Seq No:	5929756
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Va	l %RPD	RPD	Limit Qua
Surr: Dibromofluoromethane	49.29	0	50.00		98.6	70	130				
Surr: Toluene-d8	46.99	0	50.00		94.0	70	130				
Sample ID: LCS-199525	Client ID:				Un	its: ug/L	Pre	p Date: 11	/20/2014	Run No:	280414
SampleType: LCS	TestCode:	Oxygenates SW8260E	i		Bat	tchID: 199525	Ana	alysis Date: 11	/20/2014	Seq No:	5932240
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Va	l %RPD	RPD	Limit Qua
tert-Amyl alcohol	1228	100	1000		123	70	130				
tert-Amyl methyl ether	226.4	10	200.0		113	70	130				
tert-Butyl Alcohol	1166	100	1000		117	70	130				
Sample ID: 1411D32-038AMS	Client ID:	MW 20			Un	its: ug/L	Pre	p Date: 11	/20/2014	Run No:	280414
SampleType: MS	TestCode:	Volatile Organic Compo	inds by GC/MS	SW8260B	Bat	tchID: 199525	Ana	alysis Date: 11	/20/2014	Seq No:	5932189
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Va	ıl %RPD	RPD	Limit Qua
Benzene	6653	100	5000	1430	104	70.2	138				
Ethylbenzene	6233	100	5000	494.0	115	71.9	133				
Naphthalene	7960	500	5000	1171	136	54.6	130				S
Гoluene	17490	100	5000	12050	109	70	139				
Xylenes, Total	31180	100	15000	13730	116	70.7	136				
Surr: 4-Bromofluorobenzene	5118	0	5000		102	70	130				
Surr: Dibromofluoromethane	4697	0	5000		93.9	70	130				
Surr: Toluene-d8	4771	0	5000		95.4	70	130				
Sample ID: 1411D32-038AMS	Client ID:	MW 20			Un	its: ug/L	Pre	p Date: 11	/20/2014	Run No:	280414
SampleType: MS	TestCode:	Oxygenates SW8260B	1		Bat	tchID: 199525	Ana	alysis Date: 11	/20/2014	Seq No:	5932259
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC		High Limit	RPD Ref Va	l %RPD	222	Limit Qua

Qualifiers:

Greater than Result value

BRL Below reporting limit

Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Page 79 of 86

Crawford Environmental Services

ANALYTICAL QC SUMMARY REPORT Clouds Chevron

Project Name: BatchID: 199525 Workorder: 1411D32

Sample ID: 1411D32-038AMS	Client ID:				Uni	-	1000000A		0/2014	Run No: 28041	
SampleType: MS	TestCode:	Oxygenates SW8260E	•		Bat	chID: 199525	Ana	lysis Date: 11/20	0/2014	Seq No: 59322	.59
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Amyl alcohol	121600	10000	100000		122	54.6	145				
tert-Amyl methyl ether	22030	1000	20000		110	71.1	129				
tert-Butyl Alcohol	115900	10000	100000		116	50.3	149				
Sample ID: 1411D32-038AMSD	Client ID:				Uni	ts: ug/L	Prep	Date: 11/20	0/2014	Run No: 28041	4
SampleType: MSD	TestCode:	Volatile Organic Compou	mds by GC/MS	SW8260B	Bat	chID: 199525	Ana	lysis Date: 11/20	0/2014	Seq No: 59321	90
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	6443	100	5000	1430	100	70.2	138	6653	3.21	20	
Ethylbenzene	5989	100	5000	494.0	110	71.9	133	6233	3.99	20	
Naphthalene	6021	500	5000	1171	97.0	54.6	130	7960	27.7	21.4	R
Toluene	16680	100	5000	12050	92.7	70	139	17490	4.69	20	
Xylenes, Total	29880	100	15000	13730	108	70.7	136	31180	4.27	20	
Surr: 4-Bromofluorobenzene	4935	0	5000		98.7	70	130	5118	0	0	
Surr: Dibromofluoromethane	4646	0	5000		92.9	70	130	4697	0	0	
Surr: Toluene-d8	4696	0	5000		93.9	70	130	4771	0	0	
Sample ID: 1411D32-038AMSD SampleType: MSD	Client ID: TestCode:	MW 20 Oxygenates SW8260B	1		Uni Bat	ts: ug/L chID: 199525		Date: 11/20 Olysis Date: 11/20	0/2014 0/2014	Run No: <b>28041</b> Seq No: <b>59322</b>	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Amyl alcohol	119900	10000	100000		120	54.6	145	121600	1.39	23.5	
tert-Amyl methyl ether	21240	1000	20000		106	71.1	129	22030	3.65	20	
tert-Butyl Alcohol	115800	10000	100000		116	50.3	149	115900	0.105	33.5	

Qualifiers: Greater than Result value

BRL Below reporting limit

Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Page 80 of 86

**Date:** 28-Nov-14

**Date:** 28-Nov-14

Crawford Environmental Services Project Name:

ANALYTICAL QC SUMMARY REPORT Clouds Chevron

BatchID: 199600 Workorder: 1411D32

Sample ID: MB-199600 SampleType: MBLK	Client ID: TestCode: Vol	latile Organic Compou	mds by GC/MS	SW8260B	Uni Bat	ts: <b>ug/L</b> chID: <b>199600</b>		ep Date: 11/20 alysis Date: 11/20		Run No: 28052 Seq No: 59328	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	46.88	0	50.00		93.8	70	130				
Surr: Dibromofluoromethane	47.04	0	50.00		94.1	70	130				
Surr: Toluene-d8	46.47	0	50.00		92.9	70	130				
Sample ID: MB-199600 SampleType: MBLK	Client ID: TestCode: Ox	ygenates SW8260B	1		Uni Bat	ts: ug/L chID: 199600		ep Date: 11/20 alysis Date: 11/20		Run No: <b>28052</b> Seq No: <b>59330</b>	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
Sample ID: LCS-199600 SampleType: LCS	Client ID: TestCode: Vol	latile Organic Compou	ands by GC/MS	SW8260B	Uni Bat	ts: ug/L chID: 199600		ep Date: 11/20 alysis Date: 11/20		Run No: 28052 Seq No: 59328	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	46.15	1.0	50.00		92.3	70	130				
Ethylbenzene	49.37	1.0	50.00		98.7	70	130				
Naphthalene	47.77	5.0	50.00		95.5	70	130				
Toluene	47.52	1.0	50.00		95.0	70	130				
Xylenes, Total	147.7	1.0	150.0		98.4	70	130				
Surr: 4-Bromofluorobenzene	50.72	0	50.00		101	70	130				
Qualifiers: > Greater than Result v	value		< Less	than Result value			В	Analyte detected in the ass	sociated method l	blank	
BRL Below reporting limi	t		E Estim	ated (value above quantit	ation range)		н	Holding times for preparat	tion or analysis e	xceeded	

BRL Below reporting limit

Estimated value detected below Reporting Limit Rpt Lim Reporting Limit

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Page 81 of 86

Client: Crawford Environmental Services

ANALYTICAL QC SUMMARY REPORT

**Date:** 28-Nov-14

Project Name: Clouds Chevron Workorder: 1411D32

BatchID: 199600

Sample ID: LCS-199600	Client ID:				Un	-	2000000	• Control to	11/20/2014	Run No:	
SampleType: LCS	TestCode:	Volatile Organic Compo	mds by GC/MS	SW8260B	Bat	tchID: 199600	Ana	llysis Date:	11/20/2014	Seq No:	5932800
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPI	O RPD	Limit Qual
Surr: Dibromofluoromethane	47.43	0	50.00		94.9	70	130				
Surr: Toluene-d8	46.72	0	50.00		93.4	70	130				
Sample ID: LCS-199600	Client ID:				Un	its: ug/L	Pre	Date:	11/20/2014	Run No:	280599
SampleType: LCS	TestCode:	Oxygenates SW8260E			Bat	tchID: 199600	Ana	llysis Date:	11/22/2014	Seq No:	5934589
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPI	O RPD	Limit Qual
tert-Amyl alcohol	1034	100	1000		103	70	130				
tert-Amyl methyl ether	207.0	10	200.0		103	70	130				
tert-Butyl Alcohol	1019	100	1000		102	70	130				
Sample ID: 1411D32-041AMS	Client ID:	MW 23			Un	its: ug/L	Pre	Date:	11/20/2014	Run No:	280604
SampleType: MS	TestCode:	Volatile Organic Compo	inds by GC/MS	SW8260B	Bat	tchID: 199600	Ana	lysis Date:	11/24/2014	Seq No:	5937205
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPI	O RPD	Limit Qual
Benzene	26060	500	25000	785.0	101	70.2	138				
Ethylbenzene	26560	500	25000		106	71.9	133				
Naphthalene	22590	2500	25000	820.0	87.1	54.6	130				
Гoluene	29230	500	25000	3060	105	70	139				
Xylenes, Total	93220	500	75000	11910	108	70.7	136				
Surr: 4-Bromofluorobenzene	25590	0	25000		102	70	130				
Surr: Dibromofluoromethane	23470	0	25000		93.9	70	130				
Surr: Toluene-d8	23640	0	25000		94.5	70	130				
Sample ID: 1411D32-041AMS	Client ID:	MW 23			Un	its: ug/L	Pre	Date:	11/20/2014	Run No:	280604
SampleType: MS	TestCode:	Oxygenates SW8260B	•		Bat	tchID: 199600	Ana	llysis Date:	11/24/2014	Seq No:	5937214
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC		High Limit	RPD Ref	Val %RPI		Limit Qual

Qualifiers:

Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

J Estimated value detected below Re
Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Page 82 of 86

Client: Crawford Environmental Services

ANALYTICAL QC SUMMARY REPORT

BatchID: 199600

Project Name: Clouds Chevron Workorder: 1411D32

Sample ID: 1411D32-041AMS Client ID: MW 23 Units: Prep Date: Run No: 280604 ug/L 11/20/2014 TestCode: Oxygenates SW8260B BatchID: 199600 SampleType: MS Analysis Date: 11/24/2014 Seq No: 5937214 Analyte Result RPT Limit SPK value SPK Ref Val %REC Low Limit High Limit RPD Ref Val %RPD RPD Limit Qual

597500 50000 500000 119 54.6 145 tert-Amyl alcohol tert-Amyl methyl ether 107600 5000 100000 108 71.1 129 tert-Butyl Alcohol 584800 50000 500000 117 50.3 149

Sample ID: 1411D32-041AMSD SampleType: MSD	Client ID: TestCode:	MW 23 Volatile Organic Compou	ands by GC/MS	SW8260B	Uni Bat	ts: <b>ug/L</b> chID: <b>199600</b>		Date: 11/20 lysis Date: 11/24		Run No: <b>280604</b> Seq No: <b>593720</b>	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	25390	500	25000	785.0	98.4	70.2	138	26060	2.59	20	
Ethylbenzene	25900	500	25000		104	71.9	133	26560	2.52	20	
Naphthalene	23920	2500	25000	820.0	92.4	54.6	130	22590	5.72	21.4	
Toluene	28140	500	25000	3060	100	70	139	29230	3.78	20	
Xylenes, Total	90600	500	75000	11910	105	70.7	136	93220	2.86	20	
Surr: 4-Bromofluorobenzene	24430	0	25000		97.7	70	130	25590	0	0	
Surr: Dibromofluoromethane	23350	0	25000		93.4	70	130	23470	0	0	
Surr: Toluene-d8	23470	0	25000		93.9	70	130	23640	0	0	

Sample ID: 1411D32-041AMSD SampleType: MSD	Client ID: MW TestCode: Oxyg	://=a:	•		Uni Bate	ts: ug/L chID: 199600		Date: 11/20 lysis Date: 11/24		Run No: <b>280604</b> Seq No: <b>5937219</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
tert-Amyl alcohol	638000	50000	500000		128	54.6	145	597500	6.57	23.5
tert-Amyl methyl ether	104100	5000	100000		104	71.1	129	107600	3.34	20
tert-Butyl Alcohol	632500	50000	500000		127	50.3	149	584800	7.84	33.5

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Page 83 of 86

**Date:** 28-Nov-14

Crawford Environmental Services Clouds Chevron

### ANALYTICAL QC SUMMARY REPORT

Project Name: BatchID: 199640 Workorder: 1411D32

Sample ID: MB-199640 SampleType: MBLK	Client ID: TestCode: Vol	latile Organic Compound	s by GC/MS	SW8260B	Un Bat	its: <b>ug/L</b> chID: <b>199640</b>	1000000A	Date: 11/21 lysis Date: 11/21		Run No: 28059 Seq No: 59345	
Analyte	Result	RPT Limit S	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	47.47	0	50.00		94.9	70	130				
Surr: Dibromofluoromethane	48.09	0	50.00		96.2	70	130				
Surr: Toluene-d8	46.50	0	50.00		93.0	70	130				
Sample ID: MB-199640 SampleType: MBLK	Client ID: TestCode: Oxy	ygenates SW8260B			Un Bat	its: ug/L chID: 199640		Date: 11/21 lysis Date: 11/21		Run No: <b>28059</b> Seq No: <b>59345</b>	
Analyte	Result	RPT Limit S	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
Sample ID: LCS-199640	Client ID:				Un	its: ug/L	Prep	Date: 11/21	/2014	Run No: 28059	6
SampleType: LCS	TestCode: Vol	latile Organic Compound	s by GC/MS	SW8260B	Bat	chID: 199640	Ana	lysis Date: 11/21	/2014	Seq No: 59345	02
Analyte	Result	RPT Limit S	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	51.03	1.0	50.00		102	70	130				
Ethylbenzene	54.26	1.0	50.00		109	70	130				
Naphthalene	44.13	5.0	50.00		88.3	70	130				
Toluene	52.58	1.0	50.00		105	70	130				
Xylenes, Total	161.0	1.0	150.0		107	70	130				
Surr: 4-Bromofluorobenzene	49.86	0	50.00		99.7	70	130				
Qualifiers: > Greater than Result v	value		< Less	than Result value			В	Analyte detected in the ass	ociated method b	olank	

BRL Below reporting limit

Rpt Lim Reporting Limit

Estimated value detected below Reporting Limit

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded R RPD outside limits due to matrix

Page 84 of 86

**Date:** 28-Nov-14

Client: Crawford Environmental Services

ANALYTICAL QC SUMMARY REPORT

**Date:** 28-Nov-14

Project Name: Clouds Chevron Workorder: 1411D32

BatchID: 199640

Sample ID: LCS-199640	Client ID:				Un	its: ug/L	Pre	Date: 11	1/21/2014	Run No:	280596
SampleType: LCS	TestCode:	Volatile Organic Compou	mds by GC/MS	SW8260B	Bat	tchID: 199640	Ana	llysis Date: 11	1/21/2014	Seq No:	5934502
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	al %RPD	RPD	Limit Qual
Surr: Dibromofluoromethane	47.67	0	50.00		95.3	70	130				
Surr: Toluene-d8	47.98	0	50.00		96.0	70	130				
Sample ID: LCS-199640	Client ID:				Un	its: ug/L	Pre	Date: 11	1/21/2014	Run No:	280596
SampleType: LCS	TestCode:	Oxygenates SW8260E	•		Bat	tchID: 199640	Ana	lysis Date: 11	1/21/2014	Seq No:	5934529
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	al %RPD	RPD	Limit Qual
tert-Amyl alcohol	1237	100	1000		124	70	130				
tert-Amyl methyl ether	218.5	10	200.0		109	70	130				
tert-Butyl Alcohol	1182	100	1000		118	70	130				
Sample ID: 1411D32-062AMS	Client ID:	DUP 3			Un	its: ug/L	Pre	Date: 11	1/21/2014	Run No:	280604
SampleType: MS	TestCode:	Volatile Organic Compo	mds by GC/MS	SW8260B	Bat	tchID: 199640	Ana	llysis Date: 11	1/24/2014	Seq No:	5937226
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	al %RPD	RPD	Limit Qual
Benzene	2595	50	2500	39.50	102	70.2	138				
Ethylbenzene	2931	50	2500	224.0	108	71.9	133				
Naphthalene	2684	250	2500	461.0	88.9	54.6	130				
Toluene	2802	50	2500	169.0	105	70	139				
Xylenes, Total	11070	50	7500	2919	109	70.7	136				
Surr: 4-Bromofluorobenzene	2616	0	2500		105	70	130				
Surr: Dibromofluoromethane	2402	0	2500		96.1	70	130				
Surr: Toluene-d8	2405	0	2500		96.2	70	130				
Sample ID: 1411D32-062AMS	Client ID:	DUP 3			Un	its: ug/L	Pre	Date: 11	1/21/2014	Run No:	280604
SampleType: MS	TestCode:	Oxygenates SW8260B	1		Bat	tchID: 199640	Ana	llysis Date: 11	1/24/2014	Seq No:	5937250
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	al %RPD	RPD	Limit Qual

Qualifiers:

Greater than Result value

BRL Below reporting limit

Rpt Lim Reporting Limit

BRL Below reporting limit

J Estimated value detected below Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Page 85 of 86

Client: Crawford Environmental Services

ANALYTICAL QC SUMMARY REPORT

**Date:** 28-Nov-14

Project Name: Clouds Chevron
Workerder: 1411D32

 Workorder:
 1411D32
 BatchID:
 199640

Sample ID: 1411D32-062AMS SampleType: MS	Client ID: TestCode:	DUP 3 Oxygenates SW8260B			Uni Bat	ts: <b>ug/L</b> chID: <b>199640</b>		p Date: 11/2 alysis Date: 11/2	1/2014 4/2014	Run No: <b>280604</b> Seq No: <b>593725</b>	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Amyl alcohol	56470	5000	50000		113	54.6	145				
tert-Amyl methyl ether	10770	500	10000		108	71.1	129				
tert-Butyl Alcohol	55980	5000	50000		112	50.3	149				
Sample ID: 1411D32-062AMSD SampleType: MSD	Client ID: TestCode:	DUP 3 Volatile Organic Compou	ands by GC/MS	SW8260B	Uni Bat	ts: <b>ug/L</b> chID: <b>199640</b>		p Date: 11/2 alysis Date: 11/2	1/2014 4/2014	Run No: <b>280604</b> Seq No: <b>593722</b>	7
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	2572	50	2500	39.50	101	70.2	138	2595	0.890	20	
Ethylbenzene	2820	50	2500	224.0	104	71.9	133	2931	3.86	20	
Naphthalene	2635	250	2500	461.0	87.0	54.6	130	2684	1.82	21.4	
Toluene	2756	50	2500	169.0	103	70	139	2802	1.69	20	
Xylenes, Total	10770	50	7500	2919	105	70.7	136	11070	2.73	20	
Surr: 4-Bromofluorobenzene	2460	0	2500		98.4	70	130	2616	0	0	
Surr: Dibromofluoromethane	2422	0	2500		96.9	70	130	2402	0	0	
Surr: Toluene-d8	2410	0	2500		96.4	70	130	2405	0	0	
Sample ID: 1411D32-062AMSD SampleType: MSD	Client ID: TestCode:	DUP 3 Oxygenates SW8260B	i		Uni Bat	ts: <b>ug/L</b> chID: <b>199640</b>		p Date: 11/2 alysis Date: 11/2	1/2014 4/2014	Run No: <b>280604</b> Seq No: <b>593725</b>	1
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Amyl alcohol	57830	5000	50000		116	54.6	145	56470	2.37	23.5	
tert-Amyl methyl ether	10910	500	10000		109	71.1	129	10770	1.24	20	
tert-Butyl Alcohol	57030	5000	50000		114	50.3	149	55980	1.85	33.5	

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Page 86 of 86

# APPENDIX D

**Data Verification Checklist** 



Item #:	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	Yes		
2	Is UST Owner/Operator name, address, provided?			n/a
3	Is name, address, & phone number of current property owner provided?	Yes		
4	Is the SCDHEC Certified UST Site Rehabilitation Contractor's name, address, phone number, and certification number provided?	Yes		
5	Is the name, address ,telephone number, and certification number of the well driller that installed the boring/monitoring wells provided?			n/a
6	Is the name, address, telephone number, and certification number of the certified laboratories performing analytical analyses provided	Yes		
7	Has the facility history be summarized?			n/a
8	Has the regional geology and hydrogeology been summarized?			n/a
9	Are the receptor survey results provided as required?			n/a
10	Has the current use of the site and adjacent land been described?	Yes		
11	Has the site specific geology been described?			n/a
12	Has the primary soil type been described?			n/a
13	Have the field screening results been described?			n/a
14	Has a description of the soil sample collection and preservation been detailed?			n/a
15	Has the field screening methodology been detailed?			n/a
16	Has the monitoring well installation and development dates been provided?			n/a
17	Has the method of well development been detailed? (Table 2)			n/a
18	Has the justification been provided for the locations of the monitoring wells?			n/a
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	Yes		
20	Has the groundwater sampling methodology been detailed?	Yes		
21	Have the groundwater sampling dates and groundwater measurements been provided?	Yes		
22	Has the purging methodology been detailed?	Yes		
23	Has the volume of water purged from each well been provided along with the measurements to verify purging is complete?	Yes		
24	If free-product is present, has the thickness been provided?			n/a
25	Does the report include a brief discussion of the assessment done and the results?			n/a

UST Pr	ogrammatic QAPP Contractor Checklist		
26	Does the report include a brief discussion of the aquifer evaluation and the results?	Yes	
27	Does the report include a brief discussion of the fate & transport models used?		n/a
28	Are the site-conceptual tables included (Tier 1 risk evaluation)		n/a
29	Have the exposure pathways been analyzed (Tier 2 risk evauluation)		n/a
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 risk evaluation)	Yes	
31	Have recommendations for further action been provided and explained?		n/a
32	Has the soil analytical data for the site been provided in tabular format? (Table 5)		n/a
33	Has the potentiometric data for the site been provided in tabular format?	Yes	
34	Has the current and historical laboratory data been provided in tabular format	Yes	
35	Have the aquifer characteristics been provided and summarized on the appropriate form?		n/a
36	Have the Site conceptual model tables been included (Tier 1 risk evaluation)		n/a
37	Has the topographic map been provided with all the required elements?	Yes	
38	Has the site base map been provided with all the required elements?	Yes	
39	Have the CoC maps been provided?	Yes	
40	Have the potentiometric maps been provided?	Yes	
41	Have the geologic cross-sections been provided		n/a
42	Have maps showing the predicted migration of the CoCs through time been provided?		n/a
43	Has the site survey been provided and include all necessary elements? (Appendix A)		n/a
44	Have the sampling logs, chain of custody forms and analytical data package been included with all elements? (Appendix B)	Yes	
45	Is the laboratory performing the analyses properly certified? (Appendix B)	Yes	
46	Has the tax map been included with all necessary elements? (Appendix C)		n/a
47	Have the soil/boring field screening logs been provided? (Appendix D)		n/a
48	Have the well completion logs been provided? (Appendix E)		n/a
49	Have the aquifer evaluation forms,data, graphs, equations,etc. been provided? (Appendix F)		n/a
50	Have the disposal manifests been provided? (Appendix G)	Yes	
51	Has a copy of the local zoning regulations been provided? (Appendix H)		n/a

- 7-
n/a



MR CHARLES F CRAWFORD III CRAWFORD ENVIRONMENTAL SERVICES 15 CHURCH AVENUE SW ROANOKE VA 24011

WAR 3 0 2015

Re:

Corrective Action System Evaluation (CASE) Report Review
UST Permit# 07584, University Mart, 2367 Taylor St., Columbia, SC
Release #1 reported January 30, 1991; CA# 47811
Release #2 reported April 17, 1998; CA# 47812
UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 31, 1991; CA# 47813
UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 30, 1991; CA# 47814
Contract #IFB-5400007095-1/30/2014-EMW; PO# 4600322226
CASE report received February 19, 2015

Dear Mr. Crawford:

**Richland County** 

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the CASE report documenting the corrective action activities and the November 2014 groundwater sampling event. The Agency has noted that the report documents a 65.17% reduction has been achieved to date. The Agency agrees with Crawford's recommendation to install injection wells in proximity to monitoring wells MW-10 and MW-15 and begin surfactant injections.

The next semi-annual CASE report is due on or before May 5, 2015.

On all correspondence regarding this site, please reference UST Permit #07584/ #07777/ #12352. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or by e-mail at utzst@dhec.sc.gov.

Sincerely,

Sonya T. Utz, Hydrogeologist Corrective Action Section

Underground Storage Tank Management Division

Bureau of Land and Waste Management



SYLVAN FOOD SYSTEMS INC 1245 BOSTON AVE WEST COLUMBIA SC 29170

MAR 3 0 2015

Re: Corrective Action System Evaluation (CASE) Report Review

UST Permit# 07584, University Mart, 2367 Taylor St., Columbia, SC

Release #1 reported January 30, 1991 Release #2 reported April 17, 1998

UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC

Release reported December 31, 1991

UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC

Release reported December 30, 1991

CASE report received February 19, 2015

Richland County

### To Whom It May Concern:

As you are aware, petroleum products have been identified in the soil and groundwater at the referenced facility. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services has been retained to initiate corrective action of the impacted soil and groundwater using aggressive fluid vapor recovery (AFVR), air sparging and soil vapor extraction, and the injection of surfactants in addition to natural attenuation.

In order to keep you updated, a copy of the Corrective Action System Evaluation (CASE) Report has been sent to you by Crawford Environmental Services. Please contact me if you did not receive the report.

If you have questions concerning this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or utzst@dhec.sc.gov.

/XY/147

Sincerely.

Sonya 7. Vtz, Hydrogeologis Corrective Action Section

**UST Management Division** 

Bureau of Land and Waste Management



MS LINDA WARREN C/O DOUGLAS HARLEY 1527 LYON ST COLUMBIA SC 29204

MAR 3 0 2015

Re: Corrective Action System Evaluation (CASE) Report Review

UST Permit# 07584, University Mart, 2367 Taylor St., Columbia, SC

Release #1 reported January 30, 1991 Release #2 reported April 17, 1998

UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC

Release reported December 31, 1991

UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC

Release reported December 30, 1991

CASE report received February 19, 2015

Richland County

#### Dear Ms. Warren:

As you are aware, petroleum products have been identified in the soil and groundwater at the referenced facility. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services has been retained to initiate corrective action of the impacted soil and groundwater using aggressive fluid vapor recovery (AFVR), air sparging and soil vapor extraction, and the injection of surfactants in addition to natural attenuation.

In order to keep you updated, a copy of the Corrective Action System Evaluation (CASE) Report has been sent to you by Crawford Environmental Services. Please contact me if you did not receive the report.

If you have questions concerning this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or utzst@dhec.sc.gov.

Sincerely,

Sonya T. Utz, Hydrogeologis Corrective Action Section

UST Management Division

Bureau of Land and Waste Management



GILBERT WALKER
PUBLIC HOUSING AUTHORITY
GONZALES GARDENS
PO BOX 4307
COLUMBIA SC 29240

MAR 3 0 2015

Re: Corrective Action System Evaluation (CASE) Report Review

UST Permit# 07584, University Mart, 2367 Taylor St., Columbia, SC

Release #1 reported January 30, 1991 Release #2 reported April 17, 1998

UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC

Release reported December 31, 1991

UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC

Release reported December 30, 1991

CASE report received February 19, 2015

Richland County

#### Dear Mr. Gonzales:

As you are aware, petroleum products have been identified in the soil and groundwater at the referenced facility. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services has been retained to initiate corrective action of the impacted soil and groundwater using aggressive fluid vapor recovery (AFVR), air sparging and soil vapor extraction, and the injection of surfactants in addition to natural attenuation.

In order to keep you updated, a copy of the Corrective Action System Evaluation (CASE) Report has been sent to you by Crawford Environmental Services. Please contact me if you did not receive the report.

If you have questions concerning this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or utzst@dhec.sc.gov.

Sincerely,

Sonya T. Utz, Hydrogeologis Corrective Action Section

**UST Management Division** 

Bureau of Land and Waste Management



1500 MILLWOOD AVE LLC 1330 DEVONSHIRE DR COLUMBIA SC 29204

MAR 3 0 2015

Re: Corrective Action System Evaluation (CASE) Report Review

UST Permit# 07584, University Mart, 2367 Taylor St., Columbia, SC

Release #1 reported January 30, 1991 Release #2 reported April 17, 1998

UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC Release reported December 31, 1991

UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC

Release reported December 30, 1991

CASE report received February 19, 2015 Richland County

### To Whom It May Concern:

As you are aware, petroleum products have been identified in the soil and groundwater at the referenced facility. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services has been retained to initiate corrective action of the impacted soil and groundwater using aggressive fluid vapor recovery (AFVR), air sparging and soil vapor extraction, and the injection of surfactants in addition to natural attenuation.

In order to keep you updated, a copy of the Corrective Action System Evaluation (CASE) Report has been sent to you by Crawford Environmental Services. Please contact me if you did not receive the report.

If you have questions concerning this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or utzst@dhec.sc.gov.

Sincerely

Sonya 7. Utz, Hydrogeologis Corrective Action Section

UST Management Division

Bureau of Land and Waste Management



JOHN M SUDDETH 1410 N MILLWOOD AVE COLUMBIA SC 29204

MAR 3 0 2015

Re:

Corrective Action System Evaluation (CASE) Report Review

UST Permit# 07584, University Mart, 2367 Taylor St., Columbia, SC

Release #1 reported January 30, 1991 Release #2 reported April 17, 1998

UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC

Release reported December 31, 1991

UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC

Release reported December 30, 1991

CASE report received February 19, 2015

**Richland County** 

Dear Mr. Suddeth:

As you are aware, petroleum products have been identified in the soil and groundwater at the referenced facility. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services has been retained to initiate corrective action of the impacted soil and groundwater using aggressive fluid vapor recovery (AFVR), air sparging and soil vapor extraction, and the injection of surfactants in addition to natural attenuation.

In order to keep you updated, a copy of the Corrective Action System Evaluation (CASE) Report has been sent to you by Crawford Environmental Services. Please contact me if you did not receive the report.

If you have questions concerning this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or utzst@dhec.sc.gov.

Sonya V. Utz, Hydrogeologis Corrective Action Section

UST Management Division

Bureau of Land and Waste Management

Technical File cc:



FUNG LAU 2300 TAYLOR ST SUITE D COLUMBIA SC 29204

MAR 3 0 2015

Re:

Corrective Action System Evaluation (CASE) Report Review

UST Permit# 07584, University Mart, 2367 Taylor St., Columbia, SC

Release #1 reported January 30, 1991 Release #2 reported April 17, 1998

UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC

Release reported December 31, 1991

UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC

Release reported December 30, 1991

CASE report received February 19, 2015

Richland County

### Dear Fung Lau:

As you are aware, petroleum products have been identified in the soil and groundwater at the referenced facility. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services has been retained to initiate corrective action of the impacted soil and groundwater using aggressive fluid vapor recovery (AFVR), air sparging and soil vapor extraction, and the injection of surfactants in addition to natural attenuation.

In order to keep you updated, a copy of the Corrective Action System Evaluation (CASE) Report has been sent to you by Crawford Environmental Services. Please contact me if you did not receive the report.

If you have questions concerning this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or utzst@dhec.sc.gov.

Sincerely,

Sonya T/Uz, Hydrogeologist Corrective/Action Section

UST Management Division

Bureau of Land and Waste Management

# Document Receipt Information

Hard Copy	CD CD	Email
Date Received	171-15	
Permit Number	Jonepa	WZ.
Project Manager	^y C _v	awford
Name of Contractor		
UST Certification Nu	ımber	
Docket Number		
Scanned		
(A	SE Rep	ort-



June 26, 2015

Ms. Sonya Utz
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

RE: Corrective Action System Evaluation – May 2015 (Sampling Date)
Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352

Dear Ms. Utz:

Enclosed please find one copy of the May 2015 Corrective Action System Evaluation (CASE) report prepared by Crawford Environmental Services, Inc. (CES) for the referenced site. Should you have any questions regarding the enclosed material, or if additional information is required, please feel free to contact Charlie Crawford or myself at 540.343.6256.

Best Regards,

Daniel Fisher
Division Manager

Y. Fren

CC:



# **Corrective Action System Evaluation Report**

Handy Pantry #65/University Mart & Cloud's Chevron Intersection of Taylor Street and Two Notch Road Columbia, South Carolina UST Permit # 07584 / 07777 / 12352

June 26, 2015 Revision 0

#### CORRETIVE ACTION SYSTEM EVALUATION REPORT

Handy Pantry #65/University Mart & Cloud's Chevron Intersection of Taylor Street and Two Notch Road Columbia, South Carolina UST Permit # 07584 / 07777 / 12352

### **Submitted To:**

Ms. Sonya Utz
State of South Carolina
Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

## **Prepared For:**

Ms. Sonya Utz
State of South Carolina
Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

June 26, 2015 CES Job Number: 7.0547

Prepared By:

Y. Files

Daniel J. Fisher Division Manager Reviewed By:

Charles F. Crawford President / CEO Approved By:

B. Thomas Houghton

P.G. #2343



1.0 Facility Information	3
1.1 Project Information Summary	
1.2 Facility Information	
1.2.1 Site Address	
1.2.2 Owner Operator Information	3
1.2.3 Contractor Information	
1.2.4 Laboratory Information	3
2.0 Corrective Action Activities	
2.1 Corrective Action Activities Summary	4
2.1.1 Groundwater Sampling	5
3.0 Summary	6

#### Tables

- Table 1: Well Construction and Historical Groundwater Elevation Summary
- Table 2: Groundwater Laboratory Analytical Result Summary
- Table 3: Site Specific Target Level Summary

## **Figures**

- Figure 1: Topographic Map
- Figure 2: Site Facility Base Map
- Figure 3 Groundwater Chemicals of Concern
- Figure 4 Groundwater Elevation Map
- Appendix A Purge Water Disposal Manifest
- Appendix B Groundwater Sampling Data Sheets Appendix C Laboratory Data Reports, Chain of Custodies and Field Data Information Sheets
- Appendix D Data Verification Checklist



### 1.0 Facility Information

The subject property is located in a primarily commercial area of Columbia, South Carolina (Figure 1). The subject sites, operating as Handy Pantry #65/University Mart and former Cloud's Chevron, is bordered by light commercial properties in all directions. A site plan depicting pertinent features of the subject property is provided as Figure 2.

### 1.1 Project Information Summary:

### 1.2.1 Site Address

Handy Pantry #65 / University Mart / Clouds Chevron 2367 Taylor Street Columbia, South Carolina

### 1.2.2 Property Owner Information

Mr. Mahesh Patel 2367 Taylor Street Columbia, South Carolina

Mr. Andrew Diggins 1600 Block Two Notch Road Columbia, South Carolina

#### 1.2.3 Contractor Information

Crawford Environmental Services 15 Church Avenue, SW Roanoke, Virginia 24011 1 (540) 343-6256 Contractor Number: UCC-0388

# 1.2.4 Laboratory Information

Access Analytical, Inc. (AA) 7478 Carlisle Street Irmo, SC 29063 1 (803) 781-4243 SC Certification: 32575001 Analytical Environmental Services Inc. (AES) 3785 Presidential Pkwy.
Atlanta, GA 30340
1 (770) 457-8177
SC Certification: 98016003



### 2.0 Corrective Action Activities

Corrective Action activities at the facility for this phase of work included the following:

- -Regular O&M of the Air Sparge / Soil Vapor Extraction Systems.
- -Bi-Annual Sampling Event

## 2.1 Water Sample Collection

A comprehensive groundwater sampling event, including; recording equilibrated static water levels, product thicknesses, and the collection of chemical samples was completed by CES personnel between May 28, and June 2, 2015. CES personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase product measurements. Samples for the shallow wells were collected utilizing disposable polyethylene bailers. Shallow wells that exhibited groundwater above the screened bracket were purged of at least three well volumes or purged till dry before sample collection. Deep and intermediate wells exhibiting groundwater above the screened bracket were purged utilizing submersible pumps with dedicated tubing. For sample collection, disposable polyethylene bailers were lowered slowly to the top of the water column (after purging in some cases) allowed to fill one volume, then removed. Disposal records for the 135-gallons of purge water generated are included as Appendix A. Groundwater was then transferred to the appropriate sampling containers and was then placed in coolers, maintaining 4°C, and delivered to an independent laboratory. Groundwater chemical samples were submitted to Access Analytical, Inc., {SC Certification: 32575001} for analysis.

### 2.1.1 Groundwater Sampling

Equilibrated static water levels and free-product thicknesses were recorded for monitoring MW-2, MW-3, MW-4, MW-5AR, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-15, MW-17, MW-18, MW-19, MW-20, MW-22, MW-23, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31, MW-32, MW-33, MW-34, MW-35, MW-36, MW-37, MW-38, MW-39, MW-40, MW-41, MW-42, MW-43, MW-44, MW-45, MW-46, MW-48, MW-51, MW-53, MW-54, MW-55, MW-56, MW-58, MW-59, MW-62, MW-63, MW-67, MW-70, PWR-1, DW-1, DW-2, DW-3, DW-4, DW-5, DW-6, DW-7 and DW-9 Groundwater sampling data sheets are included as Appendix B.



During the referenced sampling event, CES was unable to access monitoring wells MW-49 and MW-50 due to a locked gate and monitoring wells MW-6, MW-16, MW-47, MW-57, MW-60, MW-61, MW-64, MW-66 and MW-68 were unable to be located. CES also utilized a metal detector to locate the wells, however, the overgrown site conditions did not permit the location of the aforementioned monitoring wells. Monitoring wells MW-2, MW-3, MW-15, MW-20, MW-29, MW-31, MW-62, MW-63 and PW-1R maintained free phase petroleum and were not sampled. Monitoring wells MW-1, MW-5 and MW-52 did not maintain sufficient water columns to collect groundwater samples.

CES sampled the monitoring wells, as part of the May 2015 sampling event, for the following chemical analyses: Benzene/Toluene/Ethylbenzene/Xylenes (BTEX), naphthalene, Methyl Tert-Butyl Ether (MTBE), Tert-Amyl Methyl Ether (TAME), Tert-Butyl Alcohol (TBA), and Tert-Amyl Alcohol (TAA).

During the sampling event CES collected duplicate samples of monitoring wells MW-6, MW-12 and DW-7. Review of the duplicate samples collected from aforementioned monitoring well samples did not yield significant data gaps.

In addition to duplicate samples, CES also collected daily field blank samples at the conclusion of the sample events. The samples were collected at the conclusion of the day to be representative of all samples that were collected during that day.

Table 2 presents the laboratory data for the submitted groundwater samples collected as part of this assessment. The groundwater concentration maps are included as Figure 3. The groundwater elevation map is included as Figure 4.

# 3.0 Summary

During the corrective action activities performed at the subject property, CES conducted a comprehensive groundwater monitoring event, in an effort to determine the effectiveness of the current corrective action plan. The qualitative and quantitative data collected from recent assessment activities indicates the following regarding current site conditions;

- 1. Due to the amount of SSTL wells that were not sampled during this phase, SSTL calculations were not performed.
- 2. Free-phase petroleum was observed at monitoring wells MW-2, MW-3, MW-15, MW-20, MW-29, MW-31, MW-62, MW-63 and PW-1R.
- 3. Due to anomalies in free product thicknesses observed during this event, CES is scheduled to perform an additional free product gauging event during



the week of June 29, 2015 to confirm current thicknesses. Results of this gauging event will be forwarded to SCDHEC upon completion.

3. CES is currently negotiating with the property owners of Churches Chicken to obtain site access to install injection wells proximal to MW-10 and MW-15. CES estimates that access will be granted in early July and the well installation and first injection can be completed by August 15, 2015.



# **Tables**

Table 1: Summary of Groundwater Elevation Data Table 2: Summary of Groundwater Analytical Data Table 3: Site Specific Target Levels Summary



Table 1 acility Name: Handy Pantry #65 / University Mart & Clouds Chevron UST Permit ID: 07584 / 07777 / 12352 Address: 2367 Taylor Street Columbia, South Carolina CES Project Number: 7.0547 Well Construction and Historical Groundwater Elevation Summary Well Depth Top of Casing Date Depth to Depth to Product Product Groundwater Screened Monitor Well Product (ft) Thickness (ft) Elevation (ft) Water (ft) Elevation (ft) (ft) Interval (ft) Measured NA 4/2/2014 DRY DRY NA NA 17 MW-1 27 27 93.89 11/4/2014 NA DRY NA NA DRY 5/29/2015 NA DRY NA NA DRY 5/29/2015 22.56 22.57 0.01 72.14 72.13 23.03 MW-2 30 20 30 94.70 11/4/2014 NA NA NA 71.67 4/2/2014 21.12 NA NA 73.58 NA 0.09 5/29/2015 23.2 23.29 71.25 71.16 MW-3 19 29 94.45 21.40 29 4/2/2014 NA NA NA 73.05 11/12/2014 23.16 NA 71.29 NA NA 5/29/2015 NA 21.52 NA NA 73.33 MW-4 18 94.85 28 28 11/11/2014 NA 21.76 NA NA 73.09 21.31 NA NA 73.54 4/2/2014 NA 5/29/2015 NA DRY NA NA DRY MW-5 26 16 95.26 26 11/11/2014 NA DRY NA NA DRY 4/2/2014 NA DRY NA NA DRY 5/29/2015 NA 22.38 NA NA 72.58 MW-6 20 94.96 30 30 11/11/2014 NA 23.98 NA NA 70.98 4/3/2014 NA 22 61 NA NA 72 35 5/29/2015 NA 23.48 NA NA 72.45 20 95.93 24.12 71.81 MW-7 30 30 11/11/2014 NA NA NA 4/3/2014 NA 23.02 NΑ NA 72.91 5/29/2015 NA 20.08 NA NA 74.71 MW-8 28 18.5 28 94.79 11/11/2014 NA 21.43 NA NA 73.36 4/3/2014 NA 19.95 NA NA 74.84 21.19 5/28/2015 NA NA NA 71.11 MW-9 30 20 30 92.30 21.69 11/11/2014 NA NA NA 70.61 4/2/2014 NA 20.60 NA NA 71.70 5/28/2015 16.64 NA 69.34 NA NA MW-10 28 18 28 85.98 11/11/2014 Interface Probe Failure - 1.25-Feet of Product Observed in Bailer 4/1/2014 17.69 68.29 NA NA NA 5/29/2015 NA 18.93 NA NA 69.53 MW-11 30 Unknown 88.46 11/11/2014 19.38 69.08 NA NA NA 4/2/2014 NA 18.61 NA NA 69.85 4.38 68.42 5/28/2015 NA NA NA MW-12 24.65 Unknown 72.80 11/11/2014 NA 4.63 NA NA 68.17 4/2/2014 4.20 NA NA 68.60 NA 5/28/2015 NA 11.71 NA NA 68.73 MW-13 30.1 Unknown 80.44 11/11/2014 NA 12.15 NA NA 68.29 69.31 4/1/2014 NA 11.13 NA NA 5/29/2015 16.45 16.61 0.16 69.99 69.83 MW-15 25 15 25 86.44 11/11/2014 Interface Probe Failure - 0.25-Feet of Product Observed in Bailer 4/1/2014 16.60 16.00 0.60 69.84 70.88* 5/29/2015 Unable to Locate MW-16 25 15 25 88.19 11/12/2014 NA 18.98 NA NA 69.21 17.54 4/2/2014 70.65 NA NA NA 5/28/2015 NA 22.70 NA NA 69.75 MW-17 22 20 30 92.45 23.45 11/12/2014 NA NA NA 69.00 22.00 4/2/2014 NΑ NΑ NA 70.45 5/28/2015 NA 24.41 NA NA 70.40 NA MW-18 30 20 30 94.81 11/12/2014 NA 25.08 NA 69.73 4/2/2014 NA 23.68 NA NA 71.13 5/28/2015 NA 24.00 NA NA 69.96 MW-19 30 20 30 93.96 11/13/2014 24.56 NA NA 69.40 NA 23.33 70.63 4/3/2014 NA NA NA 5/28/2015 22.67 22.61 0.06 71.45 71.51 MW-20 25 15 25 94.12 11/13/2014 NA 23.28 NA NA 70.84 4/3/2014 NA 21.95 NA NA 72.17

Facility Name:	Handy P	antry #6	5 / Univer	sity Mart & Clouds	Table '		JST Permit I	D·	07584 / 07	777 / 12352
Address:				lumbia, South Ca			Project Nu			)547
	V. C. 4120451	We	II Const	ruction and H				Summary	18V 2010	
Monitor Well	Well Depth	100000000000000000000000000000000000000	ened	Top of Casing	Date Measured	Depth to	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater
	(ft)	inte	erval	(ft)	5/28/2015	Product (ft) NA	21.85	NA	NA NA	Elevation (ft) 72.40
MW-22	30	20	30	94.25	11/11/2014	NA NA	22.68	NA NA	NA NA	71.57
		20			4/3/2014	NA	21.11	NA	NA	73.14
					5/28/2015	NA	24.25	NA	NA	70.18
MW-23	30	20	30	94.43	11/13/2014	NA	24.98	NA	NA	69.45
			ļ		4/3/2014	NA	23.65	NA	NA	70.78
					5/28/2015	NA	20.65	NA	NA	72.44
MW-25	25.6	Unknown	nown	93.09	11/10/2014	NA	21.60	NA	NA	71.49
					4/1/2014	NA	19.71	NA	NA	73.38
	02/27	212 (2		To the last of	6/5/2015	NA	22.49	NA	NA	73.47
MW-26	30	Unk	nown	95.96	11/11/2014	NA	22.95	NA	NA	73.01
			r ·		4/3/2014 5/28/2015	NA NA	20.01 17.75	NA NA	NA NA	75.95 73.65
MW-27	30	15	30	91.40	11/13/2014	NA NA	18.85	NA NA	NA NA	72.55
2.	00	,,,		01.10	4/1/2014	NA	14.65	NA	NA NA	76.75
			Ì		5/28/2015	NA	17.97	NA	NA	73.49
MW-28	30	15	30	91.46	11/13/2014	NA	19.75	NA	NA	71.71
	3	7			4/1/2014	NA	15.63	NA	NA	75.83
MM/ 20	20	45	20	04.00	5/28/2015	17.91	17.92	0.01	73.18	73.17
MW-29	30	15	30	91.09	11/13/2014 4/1/2014	NA NA	19.92 15.51	NA NA	NA NA	71.17 75.58
					5/28/2015	NA NA	26.70	NA NA	NA NA	66.07
MW-30	30	15	30	92.77	11/10/2014	NA NA	22.90	NA NA	NA NA	69.87
					4/1/2014	NA	20.50	NA	NA	72.27
		20	35	95.20	5/28/2015	25.61	25.62	0.01	69.59	69.58
MW-31	35				11/12/2014	NA	26.36	NA	NA	68.84
			-		4/2/2014	NA	24.41	NA	NA	70.79
MW-32	30	15	30	92.87	5/28/2015 11/12/2014	NA NA	22.00 23.16	NA NA	NA NA	70.87 69.71
10100-32	30	13	30		4/2/2014	NA NA	21.28	NA NA	NA NA	71.59
			<u> </u>		5/28/2015	NA	23.83	NA	NA	70.01
MW-33	35	20	35	93.84	11/12/2014	NA	24.65	NA	NA	69.19
					4/1/2014	NA	23.18	NA	NA	70.66
NAVA ( 24	25	-00	25	04.77	5/28/2015	NA	24.72	NA	NA	70.05
MW-34	35	20	35	94.77	11/12/2014 4/1/2014	NA NA	25.49 24.06	NA NA	NA NA	69.28 70.71
					5/28/2015	NA NA	23.80	NA NA	NA NA	69.91
MW-35	35	20	35	93.71	11/12/2014	NA	24.66	NA	NA NA	69.05
					4/1/2014	NA	21.35	NA	NA	72.36
John Redon Wystose	512464pp	70009440	Website.	10 go N 20 10 10 00 00 0	5/28/2015	NA	23.63	NA	NA	70.26
MW-36	35	20	35	93.89	11/12/2014	NA	24.72	NA	NA	69.17
			ļ		4/1/2014 5/28/2015	NA NA	22.84	NA NA	NA NA	71.05
MW-37	35	20	35	93.78	11/12/2014	NA NA	23.98 24.87	NA NA	NA NA	69.80 68.91
11117 07	00	20		00.70	4/1/2014	NA NA	22.24	NA NA	NA NA	71.54
					6/2/2015	NA	25.26	NA	NA	70.27
MW-38	35	20	35	95.53	11/12/2014	NA	26.17	NA	NA	69.36
	5				4/1/2014	NA	24.61	NA	NA	70.92
NAVA 20	25	20	25	00.40	6/2/2015	NA NA	26.45	NA NA	NA NA	69.74
MW-39	35	20	35	96.19	11/12/2014 4/2/2014	NA NA	27.36 25.59	NA NA	NA NA	68.83 70.60
		i.	<b> </b>		6/2/2015	NA NA	26.12	NA NA	NA NA	69.57
MW-40	35	20	35	95.69	11/12/2014	NA NA	27.01	NA NA	NA NA	68.68
			1,000		4/2/2014	NA	25.29	NA	NA	70.40
					6/2/2015	NA	25.69	NA	NA	69.16
MW-41	35	20	35	94.85	11/11/2014	NA	26.99	NA	NA	67.86
			ļ		4/1/2014	NA	24.70	NA	NA	70.15
MW-42	35	20	35	95.81	6/2/2015 11/12/2014	NA NA	26.25 27.22	NA NA	NA NA	69.56 68.59
IVIVV-42	33	20	33	90.01	4/1/2014	NA NA	25.35	NA NA	NA NA	70.46

- "" N			. / I I ·		Table '		IOT D	D.	07504/07	777 / 40050
Facility Name: Address:				sity Mart & Cloud: Iumbia, South Ca			JST Permit I Project Nu			777 / 12352 )547
nuuress.	250			truction and F					7.0	JOH1
Monitor Well	Well Depth	Scre	ened	Top of Casing	Date	Depth to	Depth to	Product	Product	Groundwater
Monitor Well	(ft)	Inte	erval	(ft)	Measured	Product (ft)	Water (ft)	Thickness (ft)	Elevation (ft)	Elevation (ft)
CONTROL SOLD	175		(6852)	5.50 MIN WA	5/28/2015	NA	24.66	NA	NA	70.49
MW-43	40	20	40	95.15	11/11/2014	NA	25.61	NA	NA	69.54
		<del> </del>	-		4/2/2014	NA	24.00	NA NA	NA	71.15
MW-44	31	16	31	94.57	5/28/2015 11/11/2014	NA NA	22.70 24.23	NA NA	NA NA	71.87 70.34
10100-4-4	31	10	31	94.57	4/1/2014	NA NA	24.42	NA NA	NA NA	70.34
		†	_		5/28/2015	NA NA	21.75	NA NA	NA NA	70.76
MW-45	30	15	30	92.51	11/11/2014	NA	22.63	NA	NA	69.88
		80000	22003		4/1/2014	NA	21.22	NA	NA	71.29
		Ì			5/28/2015	NA	24.19	NA	NA	70.31
MW-46	35	20	35	94.50	11/11/2014	NA	24.95	NA	NA	69.55
					4/1/2014	NA	23.55	NA	NA	70.95
20		70750	20000	200000 200000	5/29/2015	NA	19.63	NA	NA	70.32
MW-48	30	15	30	89.95	11/11/2014	120000		e to Access - Lo		
					4/2/2014	NA	19.70	NA	NA	70.25
MW-49	20	45	20	00.40	5/29/2015		11		-110-4-	
WW-49	30	15	30	88.18	11/11/2014		Unabi	e to Access - Lo	cked Gate	
		<del> </del>			4/2/2014 5/29/2015					
MW-50	30	15	30	84.09	11/11/2014		Unahl	e to Access - Lo	ocked Gate	
	00	"		01.00	4/2/2014		Ondo	c 10 / 100c33	onea cale	
					5/29/2015	NA	23.72	NA	NA	70.19
MW-51	35	20	35	93.91	11/11/2014	NA	24.29	NA	NA	69.62
					4/2/2014	NA	21.23	NA	NA	72.68
f					5/28/2015	NA	10.50	NA	NA	69.10
MW-53	20	5	20	79.60	11/11/2014	NA	11.02	NA	NA	68.58
					4/3/2014	NA	9.60	NA	NA	70.00
tion uproducts in instruction			-0/0002	940 MAY 0.000 MAG	5/28/2015	NA	11.27	NA	NA	66.31
MW-54	20	5	20	77.58	11/11/2014			to Locate - Ove		
		ļ			4/1/2014	NA	11.31	NA	NA	66.27
MW-55	14	4	14	71.22	5/28/2015 11/11/2014	NA	3.83	NA to Locate - Ove	NA Formation Field	67.39
10100-55	14	-	14	11.22	4/3/2014	NA	2.51	NA	NA NA	68.71
i i					5/28/2015	NA NA	8.22	NA NA	NA NA	68.17
MW-56	20	5	20	76.39	11/11/2014	13/3		to Locate - Ove		00.17
		`			4/3/2014	NA	5.12	NA NA	NA	71.27
f		i e			5/29/2015	NA	6.85	NA	NA	69.52
MW-58	19	4	19	76.37	11/11/2014	2002-200		PARTIES NO 74	ř	A Medicantes (*******
					4/2/2014			Abandoned	S.	
					5/28/2015	NA	6.46	NA	NA	61.56
MW-59	17	2	17	68.02	11/11/2014	NA	6.69	NA	NA	61.33
					4/2/2014	NA	6.05	NA	NA	61.97
500743996 258403			10000	\$20.000 (\$25.00 PM)	5/28/2015					
MW-60	14	4	14	67.94	11/11/2014			Unable to Loc	ate	
					4/2/2014					
0.000.000	2:22		12323		5/28/2015	22.21	23.71	1.5	71.84	70.34
MW-62	35	20	35	94.05	11/12/2014	NA	24.75	NA	NA	69.30
		<u> </u>			4/1/2014	NA 24.24	22.32	NA 0.04	NA 70.01	71.73
MW-63	35	20	35	94.65	5/28/2015	24.04	24.05	0.01 Unable to Loc	70.61	70.60
10100-03	33	20	33	94.03	11/12/2015 4/2/2014	NA	23.07	NA	NA NA	71.58
		<del>                                     </del>	<del>                                     </del>		5/28/2015	INA	20.01	IN/A	IN/A	71.30
MW-65	35	20	35	94.04	11/11/2014	1	Unah	le to Locate - P	aved over	
					4/2/2014	1	J.idi.			
		†			6/2/2015	NA	26.29	NA	NA	69.81
MW-67	35	20	35	96.10	11/12/2014	NA NA	27.28	NA NA	NA NA	68.82
enament Espii		5-722 5-22		10000000000000000000000000000000000000	4/1/2014	NA	24.44	NA	NA	71.66
					5/28/2015	NA	25.60	NA	NA	69.89
MW-70	35	20	35	95.49	11/11/2014	NA	26.22	NA	NA	69.27
					4/2/2014	NA	24.70	NA	NA	70.79

					Table '	1				
Facility Name:	Handy P	antry #6	5 / Univer	sity Mart & Clouds	s Chevron	L	JST Permit	ID:	07584 / 07	777 / 12352
Address:	236	7 Taylor	Street Co	lumbia, South Ca	rolina	CES	Project Nu	mber:	7.0	547
TO THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE		We	II Cons	truction and H	listorical Gr	oundwater	Elevation	Summary		
	Well Depth		ened	Top of Casing	Date	Depth to	Depth to	Product	Product	Groundwater
Monitor Well	(ft)	1000	erval	(ft)	Measured	Product (ft)	Water (ft)	Thickness (ft)	Elevation (ft)	Elevation (ft)
=		5	i i		5/28/2015	NA	20.91	NA	NA	73.27
MW-5AR	28	18	28	94.18	11/13/2014	NA NA	22.64	NA.	NA NA	71.54
31111 07414				0 10	4/1/2014	NA	21.24	NA NA	NA	72.94
					5/29/2015	23.19	23.20	0.01	70.56	70.55
PW-1R	50	45	50	93.75	11/13/2014	NA NA	23.92	NA	NA NA	69.83
10 (5.0) 0.00	2.5	28.00.	7.7		4/3/2014	NA	23.11	NA NA	NA NA	70.64
					5/29/2015	NA	46.28	NA	NA	48.38
DW-1	70	65	70	94.66	11/10/2014	NA	45.42	NA	NA	49.24
	2000		800	15/15/2	4/2/2014	NA	45.00	NA	NA	49.66
5)1/ 6				04.00	11/11/2014	NA	44.88	NA	NA	49.14
DW-2	75	70	75	94.02	4/2/2014	NA	44.34	NA	NA	49.68
					5/28/2015	NA	23.93	NA	NA	69.82
DW-3	52	47	52	93.75	11/13/2014	NA	24.42	NA	NA	69.33
					4/3/2014	NA	24.40	NA	NA	69.35
			Î		5/28/2015	NA	44.51	NA	NA	49.28
DW-4	110	105	110	93.79	11/13/2014	NA	3.45	NA	NA	90.34
					4/3/2014	NA	44.60	NA	NA	49.19
					5/28/2015	NA	44.45	NA	NA	49.29
DW-5	70	65	70	93.74	11/12/2014	NA	44.75	NA	NA	48.99
			1/00 1		4/1/2014	NA	44.22	NA	NA	49.52
					6/2/2015	NA	46.16	NA	NA	49.74
DW-6	70	65	70	95.90	11/12/2014	NA	46.64	NA	NA	49.26
					4/1/2014	NA	45.86	NA	NA	50.04
Mathematica Company			W. Co.	name a marine	5/28/2015	NA	24.32	NA	NA	48.47
DW-7	55	50	55	72.79	11/11/2014	NA	24.75	NA	NA	48.04
					4/3/2014	NA	24.00	NA	NA	48.79
Section to the	33		20-21-20	25-20-4 C 10 April 23	5/29/2015	NA	5.37	NA	NA	63.26
DW-8	55	50	55	68.63	11/11/2014			Abandoned		
					4/2/2014				%	
DI HYDDONIN DYCHOL	401500	2000000		9657001420004020F	5/28/2015	NA	24.90	NA	NA	51.57
DW-9	65	60	65	76.47	11/11/2014	NA	24.44	NA	NA	52.03
					4/2/2014	NA	25.00	NA	NA	51.47

INA = Information not available

* = GW Elevation Corrected for The Presence of Free Product n/a = not applicable



acility Name: Address:	Handy Pantry # 2367 Taylor Str	eet Columbi	a, South Ca	louds Chevron rolina	y Analytical R	Crawford	ST Project No. nary	0758	4 / 07777 / 1 7.0547	2352
Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TB
	4/2/2014		*						āk	-
MW-1	11/11/2014					Dry				
	5/29/2015 4/2/2014	170	41	200	960	320	150	230	1	6.
MW-2	11/4/2014	140	300	220	1300	410	160	210	<10	<10
WW-Z	5/29/2015	140	000	220		t of Free Produ		210	-10	- 1
	4/2/2014	6900	18000	1200	16000	1800	600	980	560.000	34
MW-3	11/12/2014	4600	11000	620	8700	1300	280	<5000	310.000	<50
	5/29/2015				0.09-Fee	t of Free Produ	uct			
	4/2/2014	<1	<1	<1	<1	3.5	<5	<100	10.000	<1
MW-4	11/11/2014	<1	<1	<1	<1	1.6	<5	<100	<10	<1
	5/29/2015	<1	<1	<1	<1	1.9	<5	<100	<10	<10
MANA/ E	4/2/2014					Dev				
MW-5	11/11/2014 5/29/2015					Dry				
	4/3/2014	2.6	<1	2.4	10	2.5	4.2	<100	<10	<10
MW-6	11/11/2014	<1	<1	<1	<1	0.8	<5	<100	<10	<10
BODER AS	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10
	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
MW-7	11/11/2014	0.71	<1	<1	<1	<1	<5	<100	<10	<10
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10
	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
MW-8	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10
N/14/ O	4/2/2014	830	7500	1700	14000	50	590	1700	5000	500
MW-9	11/11/2014	380	11000	1900	13000	5	650	1100	<10	<10
	5/28/2015 4/1/2014	250 1800	5700 5700	1200 350	8200 8500	<50 50	480 690	<5000 5000	<500 500.000	<50 500
MW-10	11/11/2014	1600	5700	350		t of Free Produ	(7)(7)(7)	5000	500.000	500
WW-10	5/28/2015	66	76	67	860	<1	370	<100	<10	<10
	4/2/2014	2.3	4.1	11	4.1	<1	4.4	120	<10	<10
MW-11	11/11/2014	0.53	<1	<1	<1	<1	<5	80	<10	58
	5/29/2015	0.51	<1	<1	3.8	<1	6.6	50	<10	<10
	4/2/2014	2.9	0.67	1.6	0.91	18	4.7	630	9.300	<10
MW-12	11/11/2014	990	19	910	140	21	180	3600	14.000	<10
	5/28/2015	53	2.7	430	14	22	44	2300	<10	<10
NAV 40	4/1/2014	0.62	8.8	4.5	86	<1	31	10	<10	<10
MW-13	11/11/2014	<1	<1	<	<1	<1	<5 <5	<100	<10	<10
	5/28/2015 4/1/2014	<1	<1	<1	<1 0.60-Fee	<1 t of Free Produ		<100	<10	<10
MW-15	11/11/2014					t of Free Produ	TOTAL CONTRACTOR OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY O			
11111	5/29/2015				78Y 000000000000000000000000000000000000	t of Free Produ	100001001			
	4/2/2014	<1	<1	<1	<1	<1	3.4	<100	<10	<10
MW-16	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
	5/29/2015					ole to Locate				
	4/2/2014	280	5100	450	13000	50	850	2200	500.000	500
MW-17	11/12/2014	32	3000	450	8300	<10	690	270	<100	<10
	5/28/2015	210	7500	480	12000	<50	830	2200	<500	<50
M/M/ 10	4/2/2014	1900	7200	630 560	8300 8700	340 510	370	4900	70.000	500
MW-18	11/12/2014 5/28/2015	3100 970	11000 2500	560 180	8700 4100	510 230	290 180	12000 3000	<1000 33.000	<100 <10
	4/3/2014	300	1800	490	12000	50	900	610	500.000	50
MW-19	11/13/2014	1400	2800	1600	24000	<50	1400	1300	<50	<50
	5/28/2015	2100	17000	330	16000	<50	1200	6200	<500	<50
	4/3/2014	1800	11000	460	11000	50	960	3100	65.000	500
MW-20	11/13/2014	1400	12000	500	14000	120	1100	<10000	<1000	<100
	5/29/2015					t of Free Produ				
	4/3/2014	5700	12000	880	23000	50	990	3600	500.000	500
MW-22	11/11/2014	6300	23000	700	21000	<20	1200	9600	<20	<14
	6/5/2015	4800	16000	760	26000	<100	840	<10000	<1000	<100
M/M/ 02	4/3/2014	4200	16000	880	19000	120	1100	5900	500.000	500
MW-23	11/13/2014	890 570	3600	450	16000	<50	1200	1500	<50 <500	<34
	5/28/2015	570	1500	89 320	8300 4400	<50	660	<5000	<500	<50
	1/1/2014									
MW-25	4/1/2014 11/10/2014	5.5 38	200 140	200	2600	<1 1.9	1300 490	170 2800	<10 <10	<10 <10

Table 2 Facility Name: Handy Pantry #65 / University Mart & Clouds Chevron UST 07584 / 07777 / 12352 Address: 2367 Taylor Street Columbia, South Carolina Crawford Project No. 7.0547 **Groundwater Laboratory Analytical Result Summary** Well ID: Date: Benzene Toluene Ethylbenzene Xylenes (Total) MTBE Naphthalene TAA TAME TBA <100 <100 4/3/2014 <10 <1 <1 <1 <1 <1 <5 MW-26 11/11/2014 <1 <1 <1 <1 <1 <5 <100 <10 <100 6/2/2015 <1 <1 <1 <5 <100 <10 <100 <100 <100 4/1/2014 <1 <1 <1 <1 <1 <5 <10 MW-27 11/13/2014 <1 <1 <1 <1 <1 <5 <100 <10 <100 5/28/2015 <1 <1 <1 <5 <100 <10 <100 <1 <1 4/1/2014 <1 <1 <1 <1 <1 <5 <100 <10 <100 MW-28 11/13/2014 <1 <1 <1 <1 <1 <5 <100 <10 <100 <1 <1 <5 <100 <10 <100 5/28/2015 <1 <1 <1 4/1/2014 <1 <1 <1 <1 <1 <5 <100 <10 <100 MW-29 11/13/2014 <1 <1 <1 <1 <1 <5 <100 <10 <100 0.01-Feet of Free Product 5/29/2015 4/1/2014 <1 <1 <1 <1 <1 <5 <100 <10 <100 MW-30 <5 <100 <100 11/10/2014 <1 <1 <1 <1 <1 <10 5/28/2015 <1 <1 <1 <1 <1 <5 <100 <10 <100 0.9 <1 <1 <5 <10 <100 4/2/2014 <1 2.7 59 310 MW-31 30 9.8 9.3 160 460 <10 <100 11/12/2014 4.1 5/29/2015 0.01-Feet of Free Product 0.94 <100 4/2/2014 <1 1.9 2.4 6.6 170 <10 MW-32 11/12/2014 4 13 72 10 <1 45 <100 <10 <100 5/28/2015 <1 <1 <1 <1 <1 <5 <100 <10 <100 560 5200 2500 670 4100 500.000 5000 4/1/2014 6900 50 MW-33 11/12/2014 130 410 210 550 1.2 71 1000 <10 <100 5/28/2015 <100 <1 <1 <1 <1 <1 <5 29 <10 4/1/2014 <1 <1 <5 39 <100 <1 <1 <1 <10 MW-34 11/12/2014 <1 <1 <1 <1 <1 <5 39 <10 <100 5/28/2015 <1 1.1 <1 <1 <1 <5 <100 <10 <100 5600 4/1/2014 3700 4300 2000 6200 160 550 54.000 5000 2800 76.000 MW-35 6000 7200 700 4700 <100 11/12/2014 7400 330 <5000 5/28/2015 3300 5100 4700 640 4400 1500 <50 < 500 4/1/2014 5.1 38 55 96 <10 <100 MW-36 11/12/2014 <1 <1 <1 <100 <10 <100 <1 <1 <5 <100 <1 1.3 2.3 <1 <5 <100 <10 5/28/2015 <1 4/1/2014 <1 <1 <1 <1 <1 3.7 <100 <10 <100 MW-37 11/12/2014 <1 <1 <1 <1 <1 <5 <100 <10 <100 5/28/2015 <1 <1 <1 <1 <1 <5 <100 <10 <100 4/1/2014 <1 <1 <5 <100 <10 <100 <1 <1 <1 MW-38 <1 <100 <10 <100 11/12/2014 <1 <1 <1 <1 <5 6/2/2015 <1 <1 <1 <1 <1 <5 <100 <10 <100 4/2/2014 3.2 14 3.3 <100 <10 <100 <1 2.2 <1 11 220 MW-39 1500 3700 340 <100 11/12/2014 1000 <1 <10 6/2/2015 1.3 160 140 1100 <1 160 <100 <10 <100 4/2/2014 5.8 14 580 24 <100 <10 <100 <1 MW-40 11/12/2014 140 970 300 2900 12 150 600 <10 <100 5.2 47 3.9 590 <1 <100 <10 <100 6/2/2015 38 <100 <10 <100 4/1/2014 <1 <1 <1 <1 <1 <5 MW-41 11/11/2014 <1 <1 <1 <1 <1 <5 <100 <10 <100 6/2/2015 <1 <1 <1 <1 <1 <5 <100 <10 <100 <100 4/1/2014 <1 <1 <1 <1 <1 <5 <100 <10 MW-42 11/12/2014 <1 <1 <1 <1 <1 <5 <100 <10 <100 <1 <1 <1 <5 <100 <10 <100 6/2/2015 <1 <1 4/2/2014 <1 <1 <1 <1 <1 <5 <100 <10 <100 MW-43 <1 <1 <1 <1 <5 <100 <10 <100 11/11/2014 <1 <1 <5 <100 <10 <100 5/28/2015 <1 <1 <1 <1 4/1/2014 <1 <1 <1 <1 <1 <5 <100 <10 <100 MW-44 11/11/2014 <1 <1 <5 <100 <10 <100 <1 <1 <1 5/28/2015 <1 <1 <1 <1 <1 <5 <100 <10 <100 4/1/2014 <1 <1 <1 <1 <1 <5 <100 <10 <100 MW-45 <100 <100 11/11/2014 <1 <1 <1 <1 <1 <5 <10 5/28/2015 <1 <1 <1 <1 <1 <5 <100 <10 <100 <100 <10 <100 4/1/2014 <1 <1 <1 <1 <1 <5 <100 MW-46 11/11/2014 <100 <10 <1 <1 <1 <1 <1 <5 5/28/2015 <1 <1 <1 <1 <1 <5 <100 <10 <100 4/2/2014 <1 <1 <1 <5 <100 <10 <100 <1 <1 MW-48 11/11/2014 Unable to Access - Locked Gate <1 <1 <100 <10 <100 5/29/2015

acility Name: Address:	Handy Pantry # 2367 Taylor Str	eet Columbi	a, South Ca	ırolina	ry Analytical R	Crawford I	ST Project No. ary	0758	4 / 07777 / 1 7.0547	2352
Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	ТВ
	4/2/2014					•				
MW-49	11/11/2014				Unable to A	ccess - Locked	Gate			
	5/29/2015									
MW-50	4/2/2014 11/11/2014				Linable to A	ccess - Locked	Cato			
10100-50	5/29/2015				Offable to A	ccess - Locked	Gale			
	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
MW-51	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<1
	4/3/2014	<1	<1	<1	<1	<1	4.1	<100	<10	<1
MW-53	11/11/2014	<1	<1	<1	<1	<1	4.1	<100	<10	<10
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10
MW-54	4/1/2014 11/11/2014	<1	<1	<1	<1	9.6 ble to Locate	<5	<100	6.700	<10
10100-54	5/28/2015	<1	<1	<1	<1	6.4	<5	140	<10	<10
	4/3/2014	10	1	3.5	<1	24	3.9	98	6.400	<10
MW-55	11/11/2014		303	0.0	A1000	ble to Locate	0.0		3.450	- 11
	5/28/2015	1000	40	410	260	190	180	1700	15	<10
	4/3/2014	<1	<1	<1	<1	<1	<5	50	<10	<10
MW-56	11/11/2014			· · · · · · · · · · · · · · · · · · ·		ble to Locate			7/	
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10
1414/ FO	4/2/2014				A	bandoned				
MW-58	11/11/2014 5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10
	4/2/2014	28	2.8	300	6.4	130	45	2600	42.000	16
MW-59	11/11/2014	81	3.6	730	14	91	96	4500	27.000	<10
	5/28/2015	1400	23	1100	620	89	290	3900	34.000	<10
	4/2/2014						000,0000			
MW-60	11/11/2014				Una	ble to Locate				
	5/29/2015			.00						
	4/1/2014	0.86	<1	<1	<1	3	3.3	260	<10	<10
MW-62	11/12/2014	51	<1	<1	0.93	2.6	65	730	<10	<10
	5/29/2015 4/2/2014	-11	<1	-1	1.50-Fee <1	et of Free Produ	5	120	<10	<10
MW-63	11/12/2014	<1	<1	<1		ble to Locate	5	120	<10	< 10
14144-00	5/29/2001					et of Free Produ	ct			
	4/2/2014					ocate - Paved	NA .			
MW-65	11/11/2014				Unable to L	ocate - Paved	over			
	5/29/2015					ocate - Paved				
2-2-2-2	4/1/2014	<1	<1	<1	<1	<1	5	<100	<10	<10
MW-67	11/12/2014	<1	<1	<1	<1	<1	<5 -5	<100	<10	<10
	6/2/2015 4/2/2014	<1 <1	<1 <1	<1 <1	<1 <1	<1 <1	<5 5	<100 <100	<10 <10	<10 <10
MW-70	11/11/2014	<1	<1	<1	<1	<1	1.5	<100	<10	<10
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10
	4/1/2014	12000	13000	2400	13000	70	1000	<5000	160.000	<50
MW-5AR	11/13/2014	830	180	98	670	13	130	<100	13.000	<10
	5/28/2015	2500	1200	280	1300	43	460	650	52.000	<10
DW 45	4/3/2014	460	3400	320	9200	<50	<250	710	<500	<50
PW-1R	11/13/2014	850	6900	580	18000	<50	1300	<5000	<500	<50
	5/29/2015	0.45	10	17		et of Free Produ		<100	<10	<10
DW-1	4/2/2014 11/10/2014	0.45 <1	1.2 <1	1.7 <1	7.2 <1	<1.0 <1	<5.0 <5	<100	<10	<10
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10
	4/2/2014	<1.0	<1.0	<1.0	<1.0	7.1	4.1	<100	<10	<10
DW-2	11/11/2014	<1	<1	<1	<1	10	<5	<100	<10	<10
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10
1240000000	4/3/2014	9800	22000	3700	17000	990	780	10000	190.000	<50
DW-3	11/13/2014	2000	20000	2800	10000	23	650	2700	<20	<14
	5/28/2015	310	4000	79	3100	6.5	130	750	<10	<10
DW-4	4/3/2014 11/13/2014	<1 <1	<1 1	<1 <1	<1 <1	<1 <1	<5 <5	<100 <100	<10 <10	<10 <10
DVV-4	6/2/2015	<1	<1	<1	<1	<1	<5 <5	<100	<10	<10
	4/1/2014	3300	68	37	1000	940	81	4300	83.000	<10
DW-5	11/12/2014	6700	380	240	3100	1400	190	5300	110.000	<10

					Table 2					
Facility Name: Address:	Handy Pantry # 2367 Taylor St	reet Columbi	a, South Ca		ry Analytical Re	Crawford	JST I Project No. <b>nary</b>	0758	4 / 07777 / 1 7.0547	2352
Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
	4/1/2014	8.5	1.2	1.6	7.2	3	5	<100	<10	<100
DW-6	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	4/3/2014	0.52	0.46	<1.0	1.4	2.6	4.2	<100	<10	<100
DW-7	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	1.2	<5	<100	<10	<100
DW-8	4/2/2014 11/11/2014				Ab	andoned				
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
DW-9	11/11/2014	<1	2.8	<1	<1	<1	<5	<100	<10	<100
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	4/2/2014	180	8.4	30	53	42	6.5	350	9.500	100
SW-1	11/12/2014				Unable to Acces	ss - Overgro	wn Brush		-	
	5/28/2015	230	18	89	160	30	24	590	<10	<100

BDL= Below Detectable Limit RBSL= Risk Based Screening Levels NE= Not Established



1,2 DCA = 1,2 Dichloroethane
J = Estimated value detected below reporting limit

	Facility Name: Address:			ly Pantry #65 / U 2367 Taylor Stree <b>Si</b> t	et Columbia, te Specifi		а	ary			JST Project No.	07584 / 07777 / 12352 7.0547
Well ID:	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	
	Initial	140.0	280.0	56.0	460.0	380.0	54.0	200.0	9.2	140.0	1719.2	
	SSTL	77.0	280.0	56.0	460.0	380.0	54.0	200.0	9.2	140.0	1656.2	
	Initial > SSTL	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	
MW-2	Subsequent	00.0	0.0	0.0	0.0	Free Pro		0.0	0.0	0.0	55.5	Free Product
	SSTL	77.0	280.0	56.0	460.0	380.0	54.0	200.0	9.2	140.0	1656.2	
	Subsequent > SSTL				10.0.0							1
	Initial	3000.0	7400.0	260.0	4500.0	3300.0	260.0	2000.0	340.0	1300.0	22360.0	
	SSTL	111.0	7400.0	260.0	4500.0	1976.0	108.0	2000.0	340.0	1300.0	17995.0	1
	Initial > SSTL	2889.0	0.0	0.0	0.0	1324.0	152.0	0.0	0.0	0.0	4365.0	
MW-3	Subsequent					Free Pro						Free Product
	SSTL	111.0	7400.0	260.0	4500.0	1976.0	108.0	2000.0	340.0	1300.0	17995.0	1
	Subsequent > SSTL								2.12.12			1
	Initial	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	
	SSTL	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	1
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
MW-5	Subsequent	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Dry
	SSTL	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	1
	Subsequent > SSTL		55.5	00.0	00.0	Dry		1000.0	100.0	1000.0	02.0.0	1
	Initial	4100.0	27000.0	2500.0	19000.0	150.0	960.0	1600.0	2000.0	20000.0	77310.0	
	SSTL	35.0	7134.0	2500.0	19000.0	150.0	68.0	809.0	270.0	15628.0	45594.0	1
100000000000	Initial > SSTL	4065.0	19866.0	0.0	0.0	0.0	892.0	791.0	1730.0	4372.0	31716.0	1
MW-9	Subsequent	250	5700	1200	8200	50	480	5000	500	5000	26380.0	
	SSTL	35.0	7134.0	2500.0	19000.0	150.0	68.0	809.0	270.0	15628.0	45594.0	1
	Subsequent > SSTL	215.0	0.0	0.0	0.0	0.0	412.0	4191.0	0.0	0.0	4818.0	1
	Initial	740.0	7800.0	2500.0	15000.0	2500.0	950.0	50000.0	5000.0	50000.0	134490.0	
	SSTL	24.0	7800.0	2500.0	15000.0	294.0	53.0	793.0	707.0	11042.0	38213.0	
	Initial > SSTL	716.0	0.0	0.0	0.0	2206.0	897.0	49207.0	4293.0	38958.0	96277.0	1
MW-10	Subsequent	66	76	67	860	1	370	100	10	100	1650.0	1
	SSTL	24.0	7800.0	2500.0	15000.0	294.0	53.0	793.0	707.0	11042.0	38213.0	
	Subsequent > SSTL	42.0	0.0	0.0	0.0	0.0	317.0	0.0	0.0	0.0	359.0	1
	Initial	1.7	5.0	11.0	5.0	5.6	4.7	370.0	1.5	19.0	423.5	
	SSTL	1.7	5.0	11.0	5.0	5.6	4.7	370.0	1.5	19.0	423.5	1
1 DAY 40	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	
MW-12	Subsequent	53	2.7	430	14	22	44	2300	10.000	100	1.0	
	SSTL	1.7	5.0	11.0	5.0	5.6	4.7	370.0	1.5	19.0	1.0	
	Subsequent > SSTL	51.3	0.0	419.0	9.0	16.4	39.3	1930.0	8.5	81.0	1.0	
	Initial					Free Pro	duct					
	SSTL	16.0	3198.0	3700.0	21680.0	730.0	45.0	492.0	199.0	5838.0	35898.0	1
	Initial > SSTL											1
MW-15	Subsequent	i	•						•	•		Free Product
	SSTL	16.0	3198.0	3700.0	21680.0	730.0	45.0	492.0	199.0	5838.0	35898.0	1
	Subsequent > SSTL										0.0	1

	Facility Name: Address:			dy Pantry #65 / U 2367 Taylor Stree							JST I Project No.	07584 / 07777 / 12352 7.0547
	31 E 100 E 100 E 100 E 100 E 100 E 100 E 100 E 100 E 100 E 100 E 100 E 100 E 100 E 100 E 100 E 100 E 100 E 100 E			Si	te Specifi	c Target Lev	el Summ	ary				
	ar 100 a 100 a				Xylenes		***************************************					
Well ID:	Item	Benzene	Toluene	Ethylbenzene	(Total)	MTBE	Naphth	TAA	TAME	TBA	Total	
	Initial	1400.0	26000.0	2500.0	23000.0	1000.0	1000.0	9400.0	2000.0	20000.0	86300.0	
	SSTL	32.0	6631.0	2500.0	21680.0	1000.0	66.0	773.0	263.0	14286.0	47231.0	
MW-17	Initial > SSTL	1368.0	19369.0	0.0	1320.0	0.0	934.0	8627.0	1737.0	5714.0	39069.0	
	Subsequent	210	7500	480	12000	50	830	2200	500.000	5000	28770.0	
	SSTL	32.0	6631.0	2500.0	21680.0	1000.0	66.0	773.0	263.0	14286.0	47231.0	
	Subsequent > SSTL	178.0	869.0	0.0	0.0	0.0	764.0	1427.0	237.0	0.0	3475.0	
	Initial	1900.0	7200.0	630.0	8300.0	340.0	370.0	4900.0	70.0	5000.0	28710.0	
	SSTL	40.0	19326.0	3700.0	21680.0	4260.0	348.0	938.0	4989.0	54462.0	109743.0	
MW-18	Initial > SSTL	1860.0	0.0	0.0	0.0	0.0	22.0	3962.0	0.0	0.0	5844.0	
200000000000000000000000000000000000000	Subsequent	970	2500	180	4100	230	180	3000	33.000	100	11293.0	
	SSTL	40.0	19326.0	3700.0	21680.0	4260.0	348.0	938.0	4989.0	54462.0	109743.0	
	Subsequent > SSTL	930.0	0.0	0.0	0.0	0.0	0.0	2062.0	0.0	0.0	2992.0	
	Initial	300.0	1800.0	490.0	12000.0	50.0	900.0	610.0	500.0	5000.0	21650.0	
	SSTL	54.0	11081.0	3700.0	21680.0	16080.0	86.0	1065.0	320.0	26814.0	80880.0	
MW-19	Initial > SSTL	246.0	0.0	0.0	0.0	0.0	814.0	0.0	180.0	0.0	1240.0	
100 CERT (1) 10 CERT (1)	Subsequent	2100	17000	330	16000	50	1200	6200	500.000	5000	48380.0	
	SSTL	54.0	11081.0	3700.0	21680.0	16080.0	86.0	1065.0	320.0	26814.0	80880.0	
	Subsequent > SSTL	2046.0	5919.0	0.0	0.0	0.0	1114.0	5135.0	180.0	0.0	14394.0	
	Initial	412.0	2930.0	728.0	8820.0	88.7	817.0	2850.0	200.0	2000.0	18845.7	
	SSTL	83.0	2930.0	728.0	8820.0	88.7	108.0	1403.0	200.0	2000.0	16360.7	
MW-20	Initial > SSTL	329.0	0.0	0.0	0.0	0.0	709.0	1447.0	0.0	0.0	2485.0	Free Product
	Subsequent					Free Pro						
	SSTL	83.0	2930.0	728.0	8820.0	88.7	108.0	1403.0	200.0	2000.0	16360.7	
	Subsequent > SSTL	#VALUE!	-2930.0	0.0	-8820.0	0.0	-108.0	0.0	0.0	0.0	#VALUE!	
	Initial	3300.0	17000.0	2900.0	20000.0	1000.0	640.0	6200.0	130.0	20000.0	71170.0	
	SSTL	90.0	17000.0	2900.0	20000.0	1000.0	112.0	1469.0	130.0	20000.0	62701.0	
MW-22	Initial > SSTL	3210.0	0.0	0.0	0.0	0.0	528.0	4731.0	0.0	0.0	8469.0	
	Subsequent	4800	16000	760	26000	100	840	10000	#######	10000	69500.0	
	SSTL	90.0	17000.0	2900.0	20000.0	1000.0	112.0	1469.0	130.0	20000.0	62701.0	
	Subsequent > SSTL	4710.0	0.0	0.0	6000.0	0.0	728.0	8531.0	870.0	0.0	20839.0	
	Initial	4200.0	16000.0	880.0	19000.0	120.0	1100.0	5900.0	500.0	5000.0	52700.0	
	SSTL	72.0	14880.0	3700.0	21680.0	33368.0	100.0	1279.0	359.0	38475.0	113913.0	
MW-23	Initial > SSTL	4128.0	1120.0	0.0	0.0	0.0	1000.0	4621.0	141.0	0.0	11010.0	
	Subsequent	570	1500	89	8300	50	660	5000	500.000	5000	21669.0	
	SSTL	72.0	14880.0	3700.0	21680.0	33368.0	100.0	1279.0	359.0	38475.0	113913.0	
	Subsequent > SSTL	498.0	0.0	0.0	0.0	0.0	560.0	3721.0	141.0	0.0	4920.0	
	Initial	5000.0	3000.0	1900.0	23000.0	5000.0	5000.0	100000.0	10000.0	100000.0	252900.0	4
	SSTL	104.0	3000.0	1900.0	23000.0	5000.0	121.0	1612.0	415.0	60494.0	95646.0	4
MW-25	Initial > SSTL	4896.0	0.0	0.0	0.0	0.0	4879.0	98388.0	9585.0	39506.0	157254.0	4
	Subsequent	29	140	190	3000	1	560	430	10	100	4460.0	4
	SSTL	104.0	3000.0	1900.0	23000.0	5000.0	121.0	1612.0	415.0	60494.0	95646.0	4
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	439.0	0.0	0.0	0.0	439.0	

	Facility Name: Address:			dy Pantry #65 / U 2367 Taylor Stree <b>Si</b>	et Columbia te Specifi		3	ary			JST I Project No.	07584 / 07777 / 12352 7.0547
Well ID:	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	
	Initial	57.0	90.0	520.0	250.0	12.0	210.0	510.0	50.0	500.0	2199.0	
	SSTL	51.0	90.0	520.0	250.0	12.0	210.0	510.0	50.0	500.0	2193.0	
1000	Initial > SSTL	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	
MW-31	Subsequent				10.0000	Free Pro	duct	110,540		10000000		Free Product
	SSTL	51.0	90.0	520.0	250.0	12.0	210.0	510.0	50.0	500.0	2193.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Initial	520.0	7200.0	1500.0	7200.0	500.0	410.0	3200.0	1000.0	10000.0	31530.0	
	SSTL	53.0	7200.0	1500.0	7200.0	500.0	410.0	1136.0	1000.0	10000.0	28999.0	
	Initial > SSTL	467.0	0.0	0.0	0.0	0.0	0.0	2064.0	0.0	0.0	2531.0	
MW-33	Subsequent	1	1	1	1	1	5	29	1.000	100	140.0	
	SSTL	53.0	7200.0	1500.0	7200.0	500.0	410.0	1136.0	1000.0	10000.0	28999.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
	Initial	4400.0	2000.0	1700.0	3500.0	300.0	580.0	5300.0	51.0	5000.0	22831.0	
	SSTL	56.0	2000.0	1700.0	3500.0	300.0	542.0	1181.0	51.0	5000.0	14330.0	
	Initial > SSTL	4344.0	0.0	0.0	0.0	0.0	38.0	4119.0	0.0	0.0	8501.0	
MW-35	Subsequent	3300	5100	1500	4700	50	640	4400	500.000	5000	25190.0	1
	SSTL	56.0	2000.0	1700.0	3500.0	300.0	542.0	1181.0	51.0	5000.0	14330.0	1
	Subsequent > SSTL	3244.0	3100.0	0.0	1200.0	0.0	98.0	3219.0	449.0	0.0	11310.0	
	Initial	240.0	34.0	270.0	240.0	11.0	220.0	850.0	50.0	44.0	1959.0	
	SSTL	90.0	34.0	270.0	240.0	11.0	220.0	850.0	50.0	44.0	1809.0	
MW-37	Initial > SSTL	150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.0	
IVIVV-37	Subsequent	1	1	1	1	1	5	100	10	100	220.0	
	SSTL	90.0	34.0	270.0	240.0	11.0	220.0	850.0	50.0	44.0	1809.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.0	56.0	
	Initial	13.0	1300.0	460.0	4200.0	250.0	330.0	5000.0	500.0	5000.0	17053.0	
	SSTL	13.0	1300.0	460.0	4200.0	250.0	330.0	1607.0	500.0	5000.0	13660.0	
MW-39	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	3393.0	0.0	0.0	3393.0	
10100-39	Subsequent	1.3	160	140	1100	1	160	100	10	100	1772.3	
	SSTL	13.0	1300.0	460.0	4200.0	250.0	330.0	1607.0	500.0	5000.0	13660.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Initial	290.0	2900.0	650.0	7100.0	500.0	530.0	10000.0	1000.0	10000.0	32970.0	
	SSTL	113.0	2900.0	650.0	7100.0	500.0	530.0	1876.0	1000.0	10000.0	24669.0	
MW-40	Initial > SSTL	177.0	0.0	0.0	0.0	0.0	0.0	8124.0	0.0	0.0	8301.0	
10100-40	Subsequent	5.2	47	3.9	590	1	38	100	10	100	895.1	
	SSTL	113.0	2900.0	650.0	7100.0	500.0	530.0	1876.0	1000.0	10000.0	24669.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Initial	260.0	1000.0	1100.0	1000.0	1000.0	420.0	20000.0	2000.0	20000.0	46780.0	
	SSTL	257.0	1000.0	1100.0	1000.0	1000.0	420.0	3234.0	2000.0	20000.0	30011.0	
MW-41	Initial > SSTL	3.0	0.0	0.0	0.0	0.0	0.0	16766.0	0.0	0.0	16769.0	
17177-41	Subsequent	1	1	1	1	1	5	100	10	100	220.0	
	SSTL	257.0	1000.0	1100.0	1000.0	1000.0	420.0	3234.0	2000.0	20000.0	30011.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Facility Name: Address:			y Pantry #65 / U 2367 Taylor Stree	et Columbia,	South Carolina	1				IST Project No.	07584 / 077 7.0	777 / 12352 547
				Sit		Target Lev	el Summa	ary					
Well ID:	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	ТВА	Total		
well ib.	Initial	5.0	5.0	5.0	5.0	5.0	5.0	100.0	10.0	100.0	240.0		
	SSTL	5.0	5.0	5.0	5.0	5.0	5.0	110.0	2.0	14.0	156.0	ł	
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	86.0	94.0	ł	
MW-54	Subsequent	1	1	1	1	6.4	5	140	10	100	265.4	1	
	SSTL	5.0	5.0	5.0	5.0	5.0	5.0	110.0	2.0	14.0	156.0		
	Subsequent > SSTL	0.0	0.0	0.0	0.0	1.4	0.0	30.0	8.0	86.0	125.4		
	Initial	4.8	25.0	20.0	25.0	93.0	11.0	1800.0	15.0	100.0	2093.8		
	SSTL	4.8	25.0	20.0	25.0	51.0	11.0	279.0	15.0	100.0	530.8		
	Initial > SSTL	0.0	0.0	0.0	0.0	42.0	0.0	1521.0	0.0	0.0	0.0		
MW-58	Subsequent	1	1	1	1	1	5	100	10	100	0.0	1	
	SSTL	4.8	25.0	20.0	25.0	51.0	11.0	279.0	15.0	100.0	530.8	1	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	
	Initial	420.0	398.0	234.0	262.0	16.4	168.0	648.0	50.0	500.0	2696.4		
	SSTL	326.0	398.0	234.0	262.0	16.4	168.0	648.0	50.0	500.0	2602.4	1	
	Initial > SSTL	94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Unable to	l ocate -
MW-65	Subsequent	04.0	0.0	0.0		ble to Locate -			0.0	0.0	0.0		Over
	SSTL	326.0	398.0	234.0	262.0	16.4	168.0	648.0	50.0	500.0	2602.4	Luvec	
	Subsequent > SSTL	020.0	000.0	20.110		ble to Locate -			00.0	000.0	2002.1	1	
	Initial	9200.0	1000.0	1400.0	4400.0	160.0	810.0	1300.0	1000.0	10000.0	29270.0		
	SSTL	83.0	1000.0	1400.0	4400.0	160.0	108.0	1300.0	381.0	10000.0	18832.0	1	
000000000000000000000000000000000000000	Initial > SSTL	9117.0	0.0	0.0	0.0	0.0	702.0	0.0	619.0	0.0	10438.0	1	
MW-5AR	Subsequent	2500	1200	280	1300	43	460	650	52.000	100	6585.0	1	
	SSTL	83.0	1000.0	1400.0	4400.0	160.0	108.0	1300.0	381.0	10000.0	18832.0	1	
	Subsequent > SSTL	2417.0	200.0	0.0	0.0	0.0	352.0	0.0	0.0	0.0	2969.0	1	
	Initial	460.0	3400.0	320.0	9200.0	50.0	250.0	710.0	500.0	5000.0	19890.0		
	SSTL	58.0	11928.0	3700.0	21680.0	290.0	19298.0	1114.0	330.0	29344.0	87742.0	1	
	Initial > SSTL	402.0	0.0	0.0	0.0	0.0	0.0	0.0	170.0	0.0	572.0		
PW-1R	Subsequent					Free Prod	duct					Free P	Product
	SSTL	58.0	11928.0	3700.0	21680.0	290.0	19298.0	1114.0	330.0	29344.0	87742.0	i	
	Subsequent > SSTL												
	Initial	2600.0	19000.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	61020.0		
	SSTL	45.0	8470.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	47935.0	1	
	Initial > SSTL	2555.0	10530.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13085.0	1	
DW-3	Subsequent	310	4000	79	3100	6.5	130	750	10.000	100	8485.5	1	
	SSTL	45.0	8470.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	47935.0	1	
	Subsequent > SSTL	265.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	265.0	1	
	Initial	130.0	2.8	23.0	36.0	17.0	6.5	340.0	2.6	23.0	580.9	İ	
	SSTL	5.0	2.8	23.0	36.0	17.0	6.5	240.0	2.6	23.0	355.9	1	
0)4/4	Initial > SSTL	125.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	225.0	1	
SW-1	Subsequent	230	18	89	160	30	24	590	10	100	1251.0	1	
	SSTL	5.0	2.8	23.0	36.0	17.0	6.5	240.0	2.6	23.0	355.9	1	
	Subsequent > SSTL	225.0	15.2	66.0	124.0	13.0	17.5	350.0	7.4	77.0	895.1	1	
SSTL = Si	te Specific Target Level		100 9, 200						-0.0000		Initial>	SSTL	325262.0
	sk Based Screening Lev					CF	RAWF	ORD		l	Subseque		#VALUE
	ethyl Tert-Butyl Ether					EN	VIRONM	ENTAL		l	COC Rec		#VALUE
	applicable						SERVIC			l			
0 - Evel	ded from Calculations												

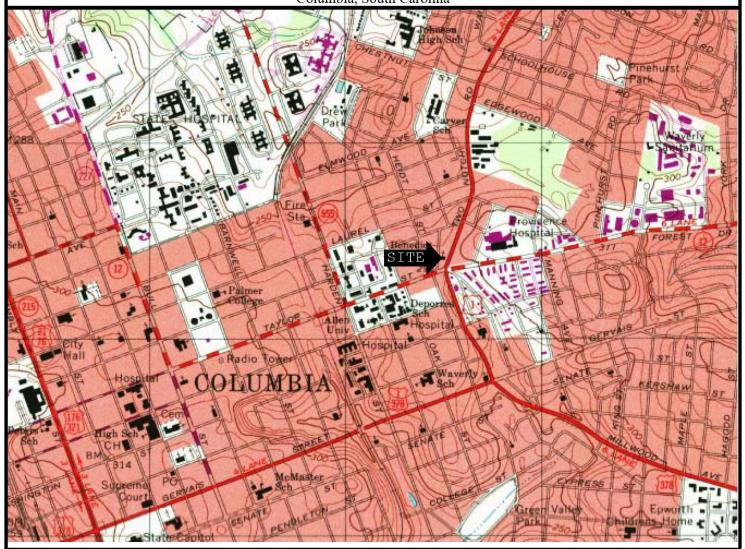
# **Figures**

Figure 1: Topographic Map
Figure 2: Site Facility Base Map
Figure 3: Groundwater Chemicals of Concern Map
Figure 4: Groundwater Elevation Map



## FIGURE 1

Site Location Map
Handy Pantry #65 / University Mart / Clouds Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina



#### CRAWFORD ENVIRONMENTAL SERVICES

15 Church Avenue, SW Roanoke Virginia, 24011

540-343-6256 (office) 540-343-6259 (fax)

#### NORTH COLUMBIA, SOUTH CAROLINA

Source: U.S.G.S. Topographic Map of the

Columbia North Quadrangle, Virginia, 7.5 Minute Series (1977, revised 1988)

Scale: 1:24,000 Contour Interval: 20 Feet Vertical Datum: National Geodetic Vertical

Datum 1929

Horizontal Datum: North American Datum1927

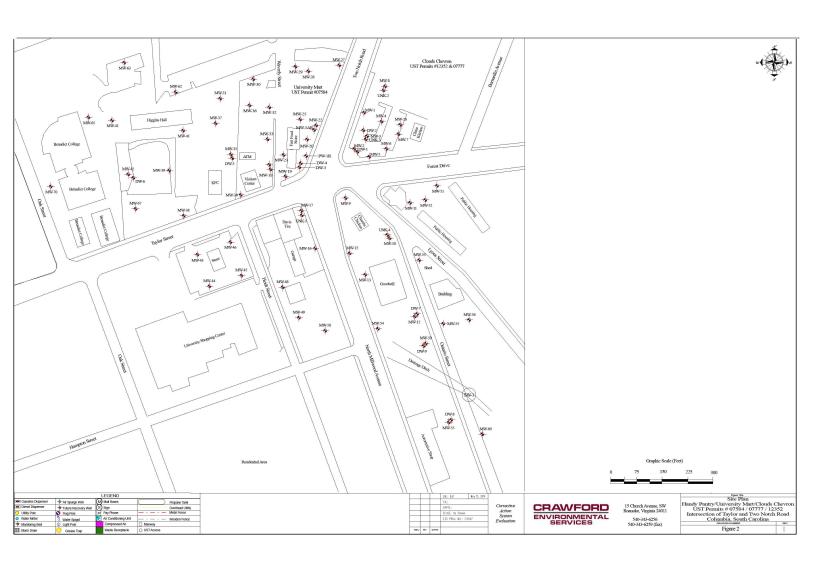
Project: CASE Report

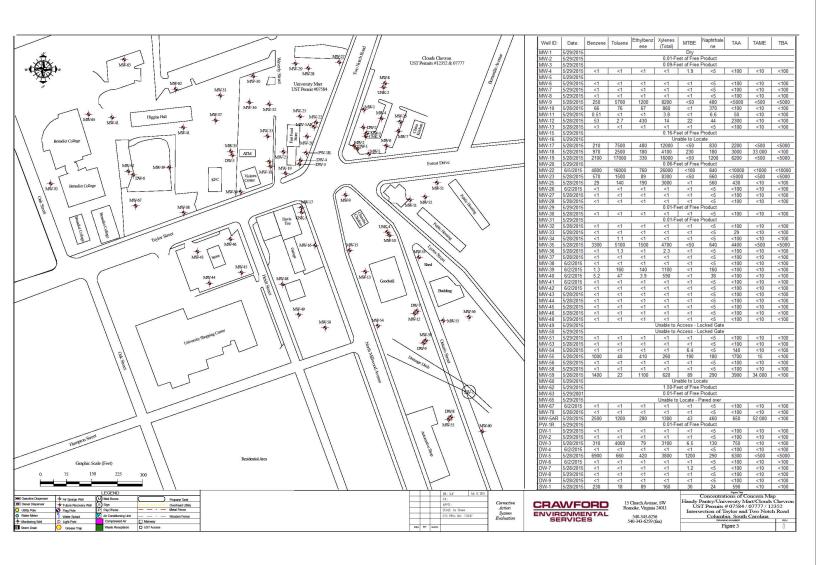
Client: SCDHEC

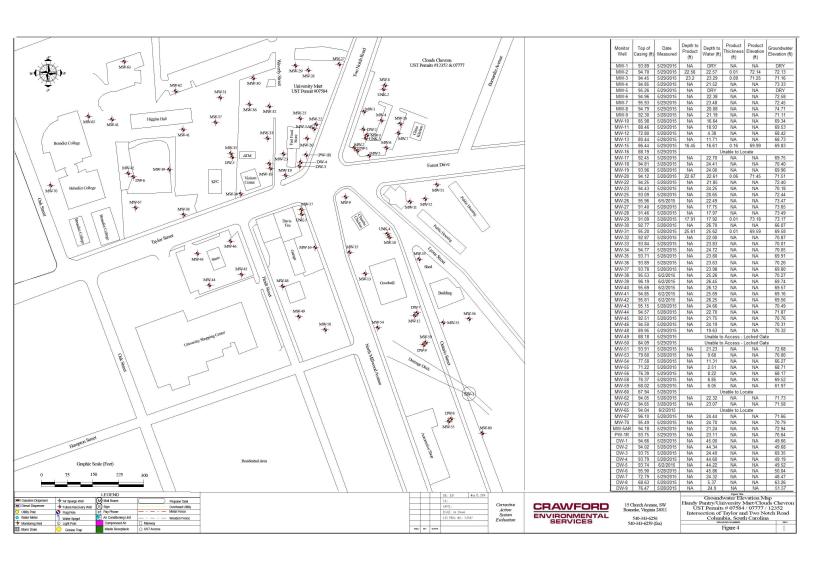
CES Job #: 7.0547



Latitude: 034"00'42.72"N Longitude: 081"01'00.13"W







# APPENDIX A

Purge Water Disposal Manifest



TRANSPORTER

913-897-6966

1-800-997-6966

# APPENDIX B

**Groundwater Sampling Data Sheets** 



	· Mw	r-1			SAMP	LE ID:					DATE	5-	29-15	
					DI	PCINC	DATA		17,	39'	Jan	1	DRY	,
WELL	***************************************	Total V	Well Depth (fe	eet).	321,100	Other Declination of the	CREEN INTE	RVAL	STATIC			-	URGE PUM	
DIAMETE	R (inches):			d		DEPTH:	7 feet to	27 fe	et TO WAT	ER (fee	et): DRY	0	R BAILER:	
VELL VO	LUME PURGE	: 1 WELL V	OLUME = (1 = (	TOTAL WE		- STATI	C DEPTH TO		X WELL (	CAPAC	TY gallons	s/foot	=	gallon
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
			1	1				+		-				_
VELL CA	PACITY (Gallo	ons Per Foot):	0.75" = 0.0	2; 1" = 0	0.04; <b>1.2</b> !	5" = 0.06;	2" = 0.16;	3" = 0.3	7; <b>4</b> " = 0.65	5" =	1.02;	6" = 1.	47; <b>12</b> " =	5.88
SAMPLED	BY (PRINT)			SAMPL	SAI ER(S) SIGI	MPLINO NATURE(S	G DATA	,	SAMPLING	DATE:	: 1.02;		47; 12" =	
SAMPLED PUMP OR DEPTH IN		Corma		SAMPL	SAI ER(S) SIGN	WPLING NATURE(S	G DATA	,		DATE: -15 ERED:	YN	SAME		:
PUMP OR DEPTH IN	BY (PRINT) TUBING WELL (feet):	Of ma	N	SAMPL	SAI ER(S) SIGI	WPLING NATURE(S	G DATA ): ::*********************************	,	SAMPLING 5-19	DATE: - /5 ERED: uipment	Y N Type:	SAME	FILTER  G NT	: SIZE:
SAMPLEC FUMP OR DEPTH IN DUPLICA SAMI	D BY (PRINT) TUBING WELL (feet):	Of ma	N	SAMPL TUBING MATER	SAI ER(S) SIGI	MPLIN( NATURE(S MCC PE	G DATA  D:  RVATION  VOL  FIELD	,	SAMPLING 5-79 FIELD-FILTE Filtration Equ	DATE: - /5 ERED: uipment	Y N Type:	SAMF	FILTER  G NT	SIZE:  AMPLE PUMP FLOW RATE
PUMP OR DEPTH IN	D BY (PRINT) TUBING WELL (feet): TE COLLECTE PLE CONTAIN  # CONTAINER	D: Y  ER SPECIFIC  MATERIA	N CATION	SAMPL TUBING MATER	SAI ER(S) SIGN IAL CODE: SAMPI	MPLING NATURE(S PE PE	G DATA  D:  RVATION  VOL  FIELD	FINAL	SAMPLING 5-79 FIELD-FILTE Filtration Equ	DATE: -/5 ERED: Lipment	Y N Type:	SAMF	FILTER  G NT	SIZE:  AMPLE PUMP FLOW RATE
SAMPLEC FUMP OR DEPTH IN DUPLICA SAMI	D BY (PRINT) TUBING WELL (feet): TE COLLECTE PLE CONTAIN  # CONTAINER	D: Y  ER SPECIFIC  MATERIA L CODE	N CATION VOLUME	SAMPL TUBING MATER	SAI ER(S) SIGN PIAL CODE: SAMPI RVATIVE SED	MPLING NATURE(S PE PE LE PRESEI TOTAL ADDED IN (mL	G DATA  D:  RVATION  VOL  FIELD	FINAL	SAMPLING 5-19 FIELD-FILTE Filtration Equi	DATE: -/5 ERED: Lipment	Y N Type:	SAMF	FILTER  G NT	SIZE:  AMPLE PUMP FLOW RATE ml/min)
SAMPLEC SAMPLE SAMPLE	D BY (PRINT) TUBING WELL (feet): TE COLLECTE PLE CONTAIN  # CONTAINER	D: Y  ER SPECIFIC  MATERIA L CODE  CG	N CATION VOLUME 40 ml	SAMPL TUBING MATER PRESE	SAI ER(S) SIGN PIAL CODE: SAMPI RVATIVE SED	MPLING NATURE(S PE  LE PRESEI  TOTAL ADDED IN (mL	G DATA  D:  RVATION  VOL  FIELD	FINAL pH	SAMPLING 5-79 FIELD-FILTE Filtration Equ	DATE: -/5 ERED: Lipment	Y N Type:	SAMF	FILTER  G NT	SIZE:  AMPLE PUMP FLOW RATE ml/min)

VELL NO	Mw-	2			SAMP	PLE ID:					DATE	2-2	9-15	
					-	IDOING	<b>54 4 4</b>			1	FP	) (	/	22.
/ELL		Total	Well Depth (fe	ot/·		JRGING	REEN INTE	R\/ΔI	STATIC	DEPTH	122.		JRGE PUM	
IAMETE	R (inches):			3		DEPTH: 2	O feet to	30 fee	et TO WAT	ER (fee	et):	0	R BAILER:	
ELL VO	LUME PURGE	: 1 WELL \	OLUME = (T = (	OTAL WE		l - STATIC et -	DEPTH TO	WATER) feet)		CAPACI	TY gallons	/foot	-	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOI
						100	\ \	+						_
				0	0									
		4	Re	10	1									
			W "	_		-		-		-				-
			-											
														-
								+						
					1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1									
	PACITY (Gallo	ns Per Foot)	: <b>0.75</b> " = 0.00		SA	MPLING	DATA	3" = 0.3			= 1.02;			
AMPLE	BY (PRINT)			SAMPI	SA LER(S) SIG	MPLING	DATA	3" = 0.3	SAMPLING	DATE:			PLING TIME	:
AMPLEI PUMP OF DEPTH IN	D BY (PRINT)  TUBING  WELL (feet):	Cocas	n Co	SAMPI	SA LER(S) SIG	MPLING NATURE(S):	DATA	3" = 0.3	SAMPLING	DATE:	YN	SAMF		:
AMPLET PUMP OF DEPTH IN	D BY (PRINT)	LOCAS	n N	SAMPI	SA LER(S) SIG VAL T G RIAL CODE	MPLING NATURE(S): MCGOVY : PE	DATA note	3" = 0.3	SAMPLING 5-29-	DATE:  /5 ERED: uipment	Y N t Type:	SAMF	FILTER  G NT	:
AMPLET UMP OF EPTH IN UPLICA	D BY (PRINT) TUBING WELL (feet): TE COLLECTE	LOCAS	n N	SAMPI TUBIN MATER	SA LER(S) SIG VAL T G RIAL CODE	MPLING NATURE(S): McCovr :: PE	DATA nock  VATION	3" = 0.3	SAMPLING 5-24 FIELD-FILTI FILTRATION Eq. INTEND ANALY AND/O	DATE:  /5 ERED: uipment	Y N t Type:	SAMF	FILTER  G NT	SIZE:  AMPLE PUMP FLOW RATE
AMPLEC JUMP OF EPTHIN UPLICA SAMI	D BY (PRINT) TUBING WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER	D: Y  ER SPECIFIE  MATERIA	N CATION	SAMPI TUBIN MATER	SA LER(S) SIG PRIAL CODE SAMP ERVATIVE JSED	MPLING NATURE(S): NCCOVIV :: PE  PLE PRESERY ADDED IN F	DATA nock  VATION	FINAL	SAMPLING 5-24 FIELD-FILTI FILTRATION Eq. INTEND ANALY AND/O METHO	DATE:	Y N t Type:	SAMF	FILTER  G NT	: AMPLE PUMP FLOW RATE mil/min)
AMPLEC JMP OF EPTHIN UPLICA SAM	D BY (PRINT) TUBING WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER	D: Y  ER SPECIFIE  MATERIA L CODE	N CATION VOLUME	SAMPI TUBIN MATER	SA LER(S) SIG MACH G RIAL CODE SAMP ERVATIVE JSED	MPLING NATURE(S): NCCOVIV :: PE  PLE PRESERT ADDED IN F (ML)	DATA nock  VATION	FINAL pH	SAMPLING 5-24 FIELD-FILTI FIltration Eq. INTEND ANALY AND/O	DATE:	Y N t Type:	SAMF	FILTER  G NT	AMPLE PUMP FLOW RATE ml/min)
AMPLEC JUMP OF EPTHIN UPLICA SAMI	D BY (PRINT) TUBING WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER	D: Y  ER SPECIFIE  MATERIA L CODE  CG	N CATION VOLUME 40 ml	SAMPI TUBIN MATER	SA LER(S) SIG PRIAL CODE SAMP ERVATIVE JSED	MPLING NATURE(S): MCGOVW : PE LE PRESERV ADDED IN F (ML)	DATA nock  VATION	FINAL pH	SAMPLING 5-24 FIELD-FILTI FILTRATION Eq. INTEND ANALY AND/O METHO	DATE:	Y N t Type:	SAMF	FILTER  G NT	: AMPLE PUMP FLOW RATE mil/min)

SAMPLING EQUIPMENT CODES:

APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electr RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain);

ESP = Electric Submersible Pump; avity Drain); O = Other (Specify)

GROUNDWATER SAMPLING LOG  SITE Cloud's Chevron / University Mart / Handy Pantry SITE LOCATION: Columbia, South Carolina  WELL NO: MW-3  SAMPLE ID: DATE 5 - 29 - 15  PURGING DATA  WELL SCREEN INTERVAL DEPTH- 9 feet to 29 feet TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO WATER (feet): TO	GROU	INDWATE	R SAMPLING	s LOG che	ak for F	P
WELL NO: MW-3  PURGING DATA  PURGING DATA  WELL DIAMETER (inches):  WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CA	SITE Cloud's Chevron / University Mart / Han	dy Pantry	SITE Columb	ia, South Carolina	-	
PURGING DATA  WELL DIAMETER (inches):  Total Well Depth (feet): 2 q  WELL SCREEN INTERVAL DEPTH: 1 q feet to 2 q feet  TO WATER (feet): 7 OR BAILER:  WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X  Feet - Feet X  WELL CAPACITY  Feet - Feet X  TIME  VOLUME VOLUME TEMP. Δ PH Δ COND. Δ DO (mg/L) Δ IDIT Δ COLOR ODOR  TIME PURGED PURGED (°C) Δ (su) Δ (μS) Δ (μS) Δ (MFL) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (DIT) Δ (D		SAMPLE ID:	LOCATION.		DATE: 5 - 29 - 15	
WELL SCREEN INTERVAL DIAMETER (inches):  WELL SCREEN INTERVAL DEPTH 13.39 PURGE PUMP TYPE DEPTH: 1 feet to 1 feet TO WATER (feet):  WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY Feet X gallons/foot = gallons  TIME VOLUME VOLUME TEMP. Δ PH Δ COND. Δ DO (mg/L) Δ IDITY Δ COLOR ODOR		PURGIN	NG DATA	FP	) DTW DTP	= 23.2031
= (	DIAMETER (inches):	9 WELL	L SCREEN INTERVAL	et TO WATER (feet):	13.39   PURGE PUI	MP TYPE
TIME VOLUME VOLUME TEMP. A PH A COND. A DO A IDITY A COLOR ODOR					gallons/foot =	gallons
	TIME VOLUME VOLUME TEMP. A		A	(mg/l) A IE	DITY   A   COLOR	ODOR
		he	000			
	Tour					
					-	_
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88	WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" =	= 0.04; <b>1.25"</b> = 0.06	6; <b>2</b> " = 0.16; <b>3</b> " = 0.3	7; <b>4"</b> = 0.65; <b>5"</b> = 1.0	)2; 6" = 1.47; <b>12</b> " =	= 5.88
SAMPLING DATA						
SAMPLER(S) SIGNATURE(S): SAMPLING DATE: SAMPLING TIME:  Pygo McCormack Pupu McCormack 5-29-15	Plyan Molormack Ph	per Malo			SAMPLING TIME	
PUMP OR TUBING DEPTH IN WELL (feet):  DUPLICATE COLLECTED:  Y  N  TUBING MATERIAL CODE: Filtration Equipment Type:	PUMP OR TUBING DEPTH IN WELL (feet):  MATE	VG " pur				₹ SIZE:

	DBY (PRINT)	ne Corc	nact	SAMPLER(S) SIG		k.	5-29-15	SAMPLING	TIME:
PUMP OF DEPTH IN	R TUBING TWELL (feet):			TUBING MATERIAL CODE	Comme		FIELD-FILTERED: Filtration Equipment		ILTER SIZE:
DUPLICA	TE COLLECTE	D: Y	N						
SAM	PLE CONTAIN	ER SPECIFIC	CATION	SAMP	LE PRESERVATION	1	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
		CG	40 ml	HCL			8260B		
		CG	40 ml	HCL			8011		
		*******							
REMARK		ample	1 - 0	.09' FP.					
MATERIA	L CODES: A	G = Amber G	lass; CG =	Clear Glass; PE	= Polyethylene; F	PP = Polypro	pylene; S = Silicone;	T = Teflon; O =	Other (Specify)
SAMPLIN	G EQUIPMENT	CODES:		Peristaltic Pump; erse Flow Peristaltic		= Bladder P w Method (T	ump; ESP = Electric ubing Gravity Drain);	Submersible Pump; O = Other (Specify)	

SITE Clo	ud's Chevron / University Ma	rt / Handy Pantry	SITE LOCATION:	Columbia, South Carolina		
	Mw-4	SAMPLE ID:			DATE:	5-29-15
	/ · · · ·					3 41 10

WELL DIAMETER		Total W	/ell Depth (fee	et): 2	8	WELL S	CREEN INTE	RVAL <b>Q</b> fee	STATIC I	ER (fee	121,5	J' PI	URGE PUM R BAILER:	
WELL VO	LUME PURGE	: 1 WELL VO	= (T	OTAL W		- STAT	IC DEPTH TO	(WATER)		APAC	gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
9:00	_		20.9	_	7.1	_	34/	-	0.98	_	62,1	-	CC	MC
	-													
						-								
						-		-						
										N - 7 / 50				
														-
	-					_								_
WELL CAI	PACITY (Gallo	ns Per Foot):	<b>0.75</b> " = 0.02	2 1"=	0.04: 1.2	5" = 0.06:	<b>2"</b> = 0.16:	3" = 0.37	7: <b>4</b> " = 0.65:	5" =	= 1.02: (	5" = 1 4	47· <b>12"</b> =	5.88

## **SAMPLING DATA**

Ry	TUBING	resor	racle	TUBING TUBING	w McCo	urmoek	5-29-15  FIELD-FILTERED:	9:00	ITME:
	WELL (feet):	Name of Street	^	MATERIAL CODE	<u>.</u>		Filtration Equipment		LIER SIZE.
DUPLICA	TE COLLECTE	D: Y	(M)						
SAM	PLE CONTAIN	ER SPECIFI	CATION	SAMP	LE PRESERVATIO	DN	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
		CG	40 ml	HCL			8260B	B	
		CG	40 ml	HCL			8011	13	
REMARK	S:								
MATERIA	AL CODES: A	G = Amber G	Blass; CG =	Clear Glass; PE	= Polyethylene;	PP = Polyprop	oylene; S = Silicone;	T = Teflon; O =	Other (Specify)
SAMPLIN	IG EQUIPMEN	T CODES:		Peristaltic Pump; verse Flow Peristaltic		P = Bladder P raw Method (T	ump; ESP = Electric	Submersible Pump; O = Other (Specify	

Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Comp	SITE NAME:	Cloud's Che	vron / Uni	versity Mai	rt / Handy	/ Pantry		OCATION	Colum	bia, Sou	th Carolin	na .			
VELL CAPACITY   Gallons   Per Fool   0.75" = 0.02;   1" = 0.04;   1.25" = 0.08;   2" = 0.16;   3" = 0.37;   4" = 0.85;   5" = 1.02;   6" = 1.47;   12" = 5.83	VELL NO	: Mw	-5			SAME	PLE ID:					DATE	5-7	29-15	i i
Total Well Depth (feet):   26						PU	JRGING	DAT	Ą		3	MRV 2	10.21	hotter	~ +
TIME	IAMETE			/OLUME = (	dk	LL DEPTH	DEPTH:	L feet	TO WATE	feet TO	ATIC DEPTI WATER (fe	et):	OF	R BAILER:	
TIME VOLUME (gallons) VOLUME PURGED (Gallons) VOLUME PURGED (Gallons) VOLUME PURGED (Gallons) VOLUME PURGED (Gallons) VOLUME PURGED (Gallons) VOLUME PRESERVATION SAMPLE PRESERVATION SAMPLE ROLL FINAL CODE PURGED (Gallons) PRESERVATIVE USED VOLUME PRESERVATIVE SAMPLING DATE SAMPLING AND FLORE CODE CODE CODE CODE CODE CODE CODE COD			CUMUI	- (	т т	iei	et –		Tee	et) A		T	s/100t :	=	gallons
SAMPLING DATA  AMPLED BY (PRINT)  SAMPLER(S) SIGNATURE(S):  SAMPLING DATE:  5-24-15  UMP OR TUBING EPTH IN WELL (feet):  MATERIAL CODE:  SAMPLE CONTAINER SPECIFICATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE CONTAINER SPECIFICATION  SAMPLE CONTAINER SPECIFICATION  SAMPLE CONTAINER SPECIFICATION  SAMPLE PRESERVATIVE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:  SAMPLING TIME:	TIME	PURGED	VOLUME PURGED		Δ		Δ	100000000000000000000000000000000000000	1 A			IDITY	Δ	COLOR	ODO
SAMPLED BY (PRINT)  SAMPLER(S) SIGNATURE(S):  SAMPLING DATE:  5-29-15  SAMPLING TIME:  5-29-15  JMP OR TUBING EPTH IN WELL (feet):  UPLICATE COLLECTED:  Y  SAMPLE CONTAINER SPECIFICATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE CONTAINER  SAMPLING EQUIPMENT CODE  PRESERVATIVE USED  MATERIA  CODE  CONTAINER  CODE  CONTAINER  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  C															
SAMPLED BY (PRINT)  SAMPLER(S) SIGNATURE(S):  SAMPLING DATE:  5-29-15  SAMPLING TIME:  5-29-15  JMP OR TUBING EPTH IN WELL (feet):  JPLICATE COLLECTED:  Y  N  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE CONTAINER SPECIFICATION  SAMPLE CONTAINER  MATERIA CODE  SAMPLING EQUIPMENT CODE  PRESERVATIVE USED  MOTOL VOLUME  SECONTAINER  CODE  CONTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  CODE  COMTAINER  CODE  COMTAINER  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  COD															
SAMPLED BY (PRINT)  SAMPLER(S) SIGNATURE(S):  SAMPLING DATE:  5-29-15  SAMPLING TIME:  5-29-15  JMP OR TUBING EPTH IN WELL (feet):  JPLICATE COLLECTED:  Y  N  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE CONTAINER SPECIFICATION  SAMPLE CONTAINER  MATERIA CODE  SAMPLING EQUIPMENT CODE  PRESERVATIVE USED  MOTOL VOLUME  SECONTAINER  CODE  CONTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  COMTAINER  CODE  CODE  COMTAINER  CODE  COMTAINER  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  COD															
SAMPLED BY (PRINT)  SAMPLER(S) SIGNATURE(S):  SAMPLING DATE:  5-29-15  SAMPLING TIME:  5-29-15  JMP OR TUBING EPTH IN WELL (feet):  UPLICATE COLLECTED:  Y  SAMPLE CONTAINER SPECIFICATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE CONTAINER  SAMPLING EQUIPMENT CODE  PRESERVATIVE USED  MATERIA  CODE  CONTAINER  CODE  CONTAINER  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  C															
SAMPLED BY (PRINT)  SAMPLER(S) SIGNATURE(S):  SAMPLING DATE:  5-29-15  SAMPLING TIME:  5-29-15  JMP OR TUBING															
SAMPLED BY (PRINT)  SAMPLER(S) SIGNATURE(S):  SAMPLING DATE:  5-29-15  SAMPLING TIME:  UMP OR TUBING EPTH IN WELL (feet):  UPLICATE COLLECTED:  Y  SAMPLE CONTAINER SPECIFICATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE CONTAINER SPECIFICATION  SAMPLE CONTAINER  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING FLOW RATE (milmin)  AMPLE CODE  CG 40 ml HCL  CG 40 ml HCL  SOUND SAMPLE SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  SAMPLE EQUIPMENT CODE  SAMPLE EQUIPMENT CODE  SAMPLE EQUIPMENT CODE  SAMPLE EQUIPMENT CODE  SAMPLE EQUIPMENT CODE  SAMPLE EQUIPMENT CODE  SAMPLE EQUIPMENT CODE  SAMPLE EQUIPMENT CODE  SAMPLE EQUIPM								-							
SAMPLED BY (PRINT)  SAMPLER(S) SIGNATURE(S):  SAMPLING DATE:  5-24-15  UMP OR TUBING EPTH IN WELL (feet):  UPLICATE COLLECTED:  Y  SAMPLE CONTAINER SPECIFICATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE CONTAINER  SAMPLING EQUIPMENT CODE  SAMPLING FLOW RATE (ml/min)  FINAL PH  CODE  CG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  GG 40 ml  HCL  HCL  HCL  HCL  HCL  HCL  HCL  HC									-						
AMPLED BY (PRINT)  SAMPLER(S) SIGNATURE(S):  SAMPLING DATE: 5-29-15  SAMPLING TIME:  UMP OR TUBING EPTH IN WELL (feet): UPLICATE COLLECTED:  Y   SAMPLE CONTAINER SPECIFICATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLING EQUIPMENT CODE  RATE (ml/min)  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CO	ELL CA	APACITY (Gallo	ons Per Foot):	<b>0.75</b> " = 0.0	2; 1" = 0	.04; <b>1.2</b>	<b>5</b> " = 0.06;	<b>2"</b> = 0.16	5; <b>3"</b> = 0.	37; 4" =	0.65; <b>5</b> ":	= 1.02; (	6" = 1.4	7; <b>12"</b> =	5.88
UMP OR TUBING EPTH IN WELL (feet):  UPLICATE COLLECTED:  Y  N  SAMPLE CONTAINER SPECIFICATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE CONTAINER  SAMPLE CONTAINER  SAMPLE CONTAINER  SAMPLE PRESERVATIVE USED  MATERIA L CODE  SAMPLE PRESERVATIVE USED  MATERIA L CODE  SCG 40 ml HCL 8260B  CG 40 ml HCL 8011	AMPI FI	) BY (PRINT)			SAMPLE				A	LCAMDI	INC DATE:		CAMPI	INC TIME	
EPTH IN WELL (feet): UPLICATE COLLECTED: Y N  SAMPLE CONTAINER SPECIFICATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PUMP FLOW RATE (ml/min)  AMPLE CONTAINER SPECIFICATION  AMPLE CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  COD	ruin EEL	5 51 (1 1(1141)			OANII LL	-11(0) 010	INTI ONE(S	).					SAIVIPL	ING TIME	
SAMPLE CONTAINER SPECIFICATION  SAMPLE PRESERVATION  SAMPLE PUMP FLOW RATE (ml/min)  AMPLE CONTAINER CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  CODE  C	EPTH IN	WELL (feet):												FILTER	SIZE:
SAMPLE CONTAINER SPECIFICATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  AND/OR METHOD  SAMPLING EQUIPMENT CODE  PUMP FLOW RATE (ml/min)  AMPLE CODE  S  CODE  FINAL PH  CODE  CODE  FINAL PH  CODE  FINAL PH  CODE  S  CG  40 ml  HCL    8260B   8011	UPLICA	TE COLLECTE	D: Y	N											NIDI E
CODE   CONTAINER   CODE   VOLUME   PRESERVATIVE   USED   ADDED IN FIELD   FINAL   PH	SAM	PLE CONTAIN	ER SPECIFIC		SAMPI	LE PRESEI	RVATION		AN	ALYSIS ND/OR	EQL	JIPMEN	T F	PUMP LOW RATE	
CG 40 ml HCL 8011		CONTAINER		VOLUME			ADDED IN	FIELD							
				40 ml	HC	L									
			CG	40 ml	HC	L				80	011				
	,														
	EMARK														

MATERIAL CODES: AG = Amber Glass;

SAMPLING EQUIPMENT CODES:

CG = Clear Glass;

APP = After Peristaltic Pump; B = Ba RFPP = Reverse Flow Peristaltic Pump; PP = Polypropylene;

B = Bailer; BP = Bladder Pump; ESP = Electromp; SM = Straw Method (Tubing Gravity Drain);

T = Teflon;

O = Other (Specify)

ESP = Electric Submersible Pump;

O = Other (Specify)

S = Silicone;

/PE = Polyethylene;

SITE NAME:	Cloud's Che	vron / Univ	ersity Mar	t / Han	dy Pantry		SITE LOCATION:	Columb	oia, South C	arolin	а			
WELL NO	o: MW	-61			SAMP	-					DATE	5-	29-19	5
					PU	RGIN	G DATA							
	ER (inches);		Vell Depth (fe	3	0	DEPTH	CREEN INTE	30 fe	STATIC eet TO WAT	ER (fee	et): 17 3	y P	URGE PUN R BAILER:	
WELL VO	OLUME PURGE	E: 1 WELL V	OLUME = (T = (	OTAL W	ELL DEPTH fee	- STAT	IC DEPTH TO	) WATER feet	) X WELL C	APAC	ITY gallons	s/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
												-		
10:15	-	_	20.7	_	6.9	_	352	-	0.87	-	37	_	u	Tes
·														
								-						
WELL CA	PACITY (Gallo	ns Per Foot):	<b>0.75" =</b> 0.02	; 1" =	0.04; 1.25	" = 0.06;	2" = 0.16;	3" = 0.3	7; 4" = 0.65;	5" =	1.02; €	5" = 1.	47; 12" =	5.88
					SAN	API IN	G DATA							
SAMPLED	BY (PRINT)	clae-			LER(S) SIGN	ATURE(S		16	SAMPLING D				LING TIME:	

PUMP OF DEPTH-I	R TUBING N WELL (feet): TE COLLECTE	clorm B	N	TUBING MATERIAL CODE		rack	5-29-15 FIELD-FILTERED: Filtration Equipment	/ 0 / / S Type:	) ILTER SIZE:
SAM	PLE CONTAIN	ER SPECIFIC	CATION	SAMP	LE PRESERVATION	ı	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE D CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			(Timinally)
		CG	40 ml	HCL			8260B	B	
		CG	40 ml	HCL			8011	B	rik reser
REMARK	3:								
MATERIA	L CODES: A	G = Amber G	lass; CG =	Clear Glass; PE :	= Polyethylene; F	P = Polyprop	ylene; S = Silicone;	T = Teflon; O = (	Other (Specify

SITE Cloud's Chevron / University Mart /	Handy Pantry	SITE Columbia, South Carol	ina
WELL NO: MW-7	SAMPLE ID:		DATE: 5-29-15

## **PURGING DATA**

WELL		Total W	ell Depth (fe	et):	^	WELLS	SCREEN INTER	RVAL	STATIC	DEPTH	1		URGE PUM	IP TYPE
	R (inches):					DEPTH	et to	30 fee				80	R BAILER:	13
WELL VO	LUME PURGE:	1 WELL VO	DLUME = (T = (	OTAL W	ELL DEPTH fee		TIC DEPTH TO	WATER) feet)		CAPAC	ITY gallons	foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
0:30	-	_	20.9	_	7.1	,	280	_	0.97	-	20		CL	NO
-				-						+				-
							4							
			1	<b> </b>					p	-				
													-	
												0.0		
				L										

#### SAMPLING DATA

SAMPLE	BY (PRINT)			SAMPLER(S) SIG	NATURE(S):	1	SAMPLING DATE:	SAMPLING	
Rua	a Mas	armac	P	Kurau	Malanne	all	5-29-15	10130	)
DEPTHIN	R TUBING NWELL (feet):	-		TUBING V MATERIAL CODE			FIELD-FILTERED: Filtration Equipment		ILTER SIZE:
DUPLICA	TE COLLECTE	D: Y							
SAM	PLE CONTAIN	ER SPECIFI	CATION	SAMP	LE PRESERVATION	v	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
		CG	40 ml	HCL			8260B	B	
		CG	40 ml	HCL			8011	13	
REMARK									
	L CODES: A		APP = After	Peristaltic Pump;	B = Bailer; BP	PP = Polypro P = Bladder P		Submersible Pump;	

SITE NAME: Cloud's Chevron / University Mart / Handy	Pantry	SITE LOCATION:	Columbia, South Carolina	
WELL NO: MW-8	SAMPLE ID:			DATE: 5-29-15

#### **PURGING DATA** WELL DIAMETER (inches): Total Well Depth (feet): 28 WELL SCREEN INTERVAL DEPTH: 8.5 Get to 27 feet WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X feet - feet X STATIC DEPTH PURGE PUMP TYPE TO WATER (feet): 20,0 8 OR BAILER: 1-WELL CAPACITY gallons/foot = gallons CUMUL. TURB VOLUME COND. VOLUME TEMP. DO TIME Δ Δ IDITY COLOR ODOR Δ PURGED PURGED (su) (°C) (µS) (mg/L) (NTU) (gallons) (gallons) 7.1 21.0 0.96 4 205 NO

#### SAMPLING DATA

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Ru	BY (PRINT)	Corono	rcle.	SAMPLER(S) SIG	Macaum De	٠	SAMPLING DATE: 5-24-15	SAMPLING	5
DEPTHIN	TUBING WELL (feet): TE COLLECTE	D: Y	(N)	TUBING ** MATERIAL CODE			FIELD-FILTERED: Filtration Equipment		ILTER SIZE:
	PLE CONTAIN		\.	SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
		CG	40 ml	HCL			8260B	13	
		CG	40 ml	HCL			8011	B	-
REMARK	S:								
MATERIA	L CODES: A	<b>G</b> = Amber G			= Polyethylene;	PP = Polypro	pylene; S = Silicone;	T = Teflon; O =	Other (Specify
SAMPLIN	G EQUIPMEN	T CODES:		Peristaltic Pump; erse Flow Peristaltic		P = Bladder P aw Method (1	Pump; ESP = Electric Fubing Gravity Drain);	Submersible Pump; O = Other (Specify	



SITE NAME: Cloud's Chevron / University Mart / Handy I	Pantry	SITE LOCATION:	Columbia, South Carolina	
WELL NO: MW-9	SAMPLE ID:			DATE: 5-28-15

					PU	RGING	G DATA							
	R (inches):		Vell Depth (fe			DEPTH	CREEN INTE	30 fe	et TO WAT	DEPTI ER (fe	1 21,19 et):	9 P	URGE PUM R BAILER:	
WELL VO	LUME PURGE	: 1 WELL V	OLUME = (T = (	OTAL W	ELL DEPTH fee		TIC DEPTH TO		X WELL	CAPAC	gallons	s/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
2:45		_	21.2	_	6.8		273	-	0.91	_	62	-	CL	Yes
WELL CA	PACITY (Gallo	ns Per Foot):	<b>0.75</b> " = 0.02	2; 1"=			2" = 0.16; G DATA	<b>3</b> " = 0.3	7; <b>4</b> " = 0.65	5"	= 1.02; (	š" = 1.·	47; 12" =	5.88
SAMPLED	BY (PRINT)	Cormo	-E	SAMP	LER(S) SIGN	ATURE(S		ans	SAMPLING	DATE:		SAMP 2	LING TIME	
PUMP OR			-	TUBIN	IG 0		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	S. L. MAN	FIELD-FILTE	RED:			FILTER	SIZE:

#### DEPTHTIN WELL (feet): Filtration Equipment Type: MATERIAL CODE: DUPLICATE COLLECTED: (N) SAMPLE INTENDED SAMPLING EQUIPMENT PUMP **ANALYSIS** SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION FLOW AND/OR CODE RATE METHOD (ml/min) TOTAL VOL ADDED IN FIELD SAMPLE MATERIA PRESERVATIVE FINAL CONTAINER VOLUME ID CODE L CODE USED pH (mL) CG HCL 13 40 ml 8260B CG 40 ml HCL 8011 REMARKS: MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify) BP = Bladder Pump; SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

check for No

#### GROUNDWATER SAMPLING LOG

SITE Cloud's Chevron / University Mart / Handy F	antry	SITE LOCATION:	Columbia, South Carolina	
WELL NO: MW-10	SAMPLE ID:			DATE: 5-28-15

**PURGING DATA** WELL SCREEN INTERVAL DEPTH: 18 feet to 28 feet - STATIC DEPTH TO WATER) WELL Total Well Depth (feet): PURGE PUMP TYPE OR BAILER: LFPP STATIC DEPTH TO WATER (feet) 1664 28 DIAMETER (inches): WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH TER) X feet) X WELL CAPACITY feet gallons/foot = gallons CUMUL. TURB VOLUME VOLUME COND. TEMP. pH DO TIME Δ Δ Δ IDITY COLOR **ODOR PURGED** PURGED (°C) (su) (µS) (mg/L) (NTU) (gallons) (gallons) 2:10 241 392 1.5 1,5 0,91 cur Yes 21.6 1.0 25 3 236 5 0.92 288 SICH ,01 145 104 224 78 1.0 3.5 21.0 12 6: 0.78 104 26 Yes 2:25 1.0 224 6 4.5 6.7 0 0.8E 102 18 KS 4 5.0 0 2:30 21.0 224 00 9,5 0.88 jec WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

#### SAMPLING DATA

RU		leloec	noch	SAMPLER(S) SIG	NATURE(S):	rele	SAMPLING DATE: 5-28-15	SAMPLING 2/3 C	)
	WELL (feet):	2,	6	TUBING/ MATERIAL CODE	PF		FIELD-FILTERED: Filtration Equipment		LTER SIZE:
DUPLICA	TE COLLECTE	D: Y	N						
SAMI	PLE CONTAIN	ER SPECIFIC	CATION	SAMP	LE PRESERVATION	V	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		CFPP	
		CG	40 ml	HCL			8260B		
		CG	40 ml	HCL			8011	V	
								7	-
REMARK	<u>1</u> 3:			L					
MATERIA	L CODES: A	G = Amber G	lass; CG =	Clear Glass; PE	= Polyethylene;	PP = Polyproj	pylene; S = Silicone;	T = Teflon; O = 0	Other (Specify
SAMPLIN	G EQUIPMEN	T CODES:		Peristaltic Pump; erse Flow Peristaltic		= Bladder P	ump; ESP = Electric	Submersible Pump;	

STABILIZATION CRITERIA

SITE NAME:	Cloud's Chev	vron / Univ	ersity Mar	/ Hand	y Pantry		SITE LOCATION:	Columb	ia, South C	arolina				
WELL N	o: Mw-	44.4			SAME	PLE ID:					DATE	5-2	29-15	and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th
					PL	JRGIN	G DATA							
	ER (inches):	1,500,000	Vell Depth (fe	2	0	DEPTH		fe	STATIC et TO WAT		et):   %, 9		JRGE PUM R BAILER:	
WELL V	OLUME PURGE	: 1 WELL V	OLUME = (T = (	OTAL WE		I - STA et -	TIC DEPTH TO	WATER feet		APACI	TY gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
7:45	1.5	1.5	20.5	-	6.9	_	249	-	ti/	-	652	2	dy	Yes
7,55	1.0	2.5	20.6	11	6.7	,2	221	IR	0.82	,22	103	549	Stry	45
8,00	1.0	35	20.3	13	6.6	11	216	5	0.78	104	72	31	CL	yes
8:05	1.0	4.5	20.4	11	6.7	11	215	1	0,75	103	13	59	CI	45
8:10	0,5	5.0	20.3	11	6.6	11	214	1	0177	,02	11	2	cl	405
8:15	0.6	5.5	20.3	0	6.6	0	216	2	0.78	101	9.9	1,1	CI	Yes
							<u> </u>							

#### SAMPLING DATA

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

	D BY (PRINT)		-	SAMPLER(S) SIG			SAMPLING DATE:	SAMPLING	TIME:
Ry	an once	100 CMACK	2	Regard	J Malor	made.	5-29-15	8:15	
PUMP OF DEPTH IN	TUBING WELL (feet):	-	JS.	TUBING & MATERIAL CODE	13 mg		FIELD-FILTERED: Filtration Equipment	Y (N) F	ILTER SIZE:
DUPLICA	TE COLLECTE	D: Y	N						
SAM	PLE CONTAIN	ER SPECIFI	CATION	SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		RERP	
		CG	40 ml	HCL			8260B	1	
		CG	40 ml	HCL			8011		
								y	
REMARK	S:								
MATERIA	L CODES: A	G = Amber G	ilass; CG =	Clear Glass; PE	= Polyethylene;	<b>PP</b> = Polyprop	ylene; S = Silicone;	T = Teflon; O =	Other (Specify)
SAMPLIN	G EQUIPMEN	T CODES:		Peristaltic Pump; verse Flow Peristaltic	B = Bailer; BI	= Bladder Pu		Submersible Pump; O = Other (Specify	

SITE Cloud's Chevron / University Ma	art / Handy Pantry	SITE Columbia, South Car	rolina
WELL NO: MW-12	SAMPLE ID:		DATE: 28 - 15
		William on the control of the control	

	R (inches):	Total W	Vell Depth (fe	et): J	1.65	DEPTH		fee	STATIC TO WAT		t):4,39	S O	URGE PUM R BAILER:	PIYPE
WELL VO	LUME PURGE:	1 WELL VO	OLUME = (T = (	OTAL W	ELL DEPTH fee	- STAT t-	IC DEPTH TO	WATER) feet)	X WELL					gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
110	2,5	2.5	21.6	_	7.2	-	227		0.83	-	492	-	das	yes
1115	1.5	4.0	20.9	17	6.6	16	219	8	0.71	112	76	416	81 in	yes
1:20	1.5	55	20.8	,1	6.5	1	214	5	0.69	,02	109	33	Stales	Yes
1:25	1.0	6.5	20.8	02	6.5	0	213	11	0,68	101	20	87	Ch	yes
130	1-0	7.5.	20.8	0	6.5	0	214	1	0.69	,01	10	100	eL	Yes
								-						
		- Alba-									-			
	PACITY (Gallons													

#### SAMPLING DATA

_	D BY (PRINT)	- 1	,	SAMPLER(S) SIG		00	SAMPLING DATE:	SAMPLING	TIME:
PUMP OF DEPTH IN	R TUBING N WELL (feet):	20		TUBING MATERIAL CODE	Plan	Joek -	5-28-75 FIELD-FILTERED: Filtration Equipment		LTER SIZE:
DUPLICA	TE COLLECTE	D: (Y	) N						
SAM	PLE CONTAIN	ER SPECIFI	CATION	SAMP	LE PRESERVATIO	DN	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			(mining)
		CG	40 ml	HCL			8260B	RIPP	
	×	CG	40 ml	HCL			8011	V	
REMARK	S:								
	L CODES: A				= Polyethylene;	PP = Polyprop	oylene; S = Silicone;	T = Teflon; O = 0	Other (Specify)
SAMPLIN	G EQUIPMENT	CODES:	APP = After RFPP = Rev	Peristaltic Pump; erse Flow Peristaltic	B = Bailer; B Pump; SM = Str	P = Bladder P aw Method (T	ump; ESP = Electric ubing Gravity Drain);	Submersible Pump; O = Other (Specify)	

SITE NAME: Cloud's Chevron / University Mart / Handy	Pantry	SITE LOCATION: Columbia, South Carolina	
WELL NO: MW-13	SAMPLE ID:		DATE: 5-28-/5

	R (inches): LUME PURGE	Total V	Vell Depth (fe	eet): 3 OTAL W	ELL DEPTH	DEPTH	CREEN INTER feet to IC DEPTH TO	fe		ER (fee	et): 1, 4	1 0	URGE PUM R BAILER:	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
2:45	1.5	15	21.9	_	8,2	-	390	-	11/2	-	+1000	-	CIM	none
2:50	1.0	2.5	21.8	11	7.6	016	3/8	78	0,99	13	341		any	nore
2:55	1.0	3.5	21,1	47	7.1	0.5	301	11	0.91	,08	106	235	sila	0
3:00	1.0	4.5	21.1	0	6.3	6.8	300	1	0.93	,02	183	47	cul	ON
3:05	1.0	55	21.0	.1	6.3	2	302	2	0,92	101	75	78	6/001	0
3:10	1.0	6.5	21.1	d	6.2	0.1	300	2	0,92	0	25	50	CI	1
3:15	10	7.5	21.0	1	6.2	<del>-6</del>	300	0	0.93	.0(	9,5	15.5	ci	NO

## SAMPLING DATA

SAMPLE	BY (PRINT)	-		SAMPLER(S) SIG	NATURE(S):		SAMPLING DATE:	SAMPLING	TIME:
Ru	00 M	clon	rack	Kusan	O Clarin	nade	5-28-15	3:15	
DEPTHIN	TUBING WELL (feet):	ی کی	5 \	TUBING) MATERIAL CODE	D) poo		FIELD-FILTERED: Filtration Equipment	Type: N FI	LTER SIZE:
DUPLICA	TE COLLECTE	D; Y	N						
SAMI	PLE CONTAIN	ER SPECIFIC	CATION	SAMP	LE PRESERVATION	ı	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
		CG	40 ml	HCL			8260B	RSOP	
		CG	40 ml	HCL			8011	ROP	
REMARKS	S:			I					
MATERIA	L CODES: A	G = Amber G	lass; CG =	Clear Glass; PE	= Polyethylene; P	PP = Polyprop	ylene; S = Silicone;	T = Teflon; O = 0	Other (Specify
SAMPLIN	G EQUIPMENT	CODES:		Peristaltic Pump; erse Flow Peristaltic		= Bladder Pu w Method (Tu	mp; ESP = Electric ubing Gravity Drain);	Submersible Pump; O = Other (Specify)	

check for

SITE (	Cloud's Che	vron / Univ	ersity Mart	/ Hand	y Pantry		SITE LOCATION:	Columbia	a, South Ca	arolina				
WELL NO	MW-	15			SAMP	LE ID:					DATE	5-	29-15	)
					PU	RGIN	G DATA				,	0	TP = 16	.45
WELL DIAMETE	R (inches):		/ell Depth (fee	a.	5	WELL S DEPTH	CREEN INTE	25 feet	STATIC I	DEPTH ER (fee	16.6	Po	URGE PUM R BAILER:	IP TYPE
WELL VO	DLUME PURGE	: 1 WELL V	DLUME = (To	OTAL WE	LL DEPTH fee	- STAT t-	TIC DEPTH TO	WATER) feet)		APACI	TY gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
												4		
										19:10				
WELL CA	PACITY (Gallo	ns Per Foot):	<b>0.75</b> " = 0.02	1" = 0	).04; <b>1.25</b>	" = 0.06 <del>;</del>	2" = 0.16;	<b>3"</b> = 0.37;	<b>4</b> " = 0.65;	5" =	1.02; 6	" = 1.4	47; <b>12"</b> =	5.88
					SAN	IPLIN	G DATA							
	BY (PRINT)	ecacite	H		ER(S) SIGN				SAMPLING D			SAMP	LING TIME:	

	NWELL (feet): TE COLLECTE	D: Y	N	MATERIAL CODE	: 12		Filtration Equipment	Туре:		
SAM	PLE CONTAIN	ER SPECIFI	CATION	SAMP	LE PRESERVATION	ı	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)	
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
		CG	40 ml	HCL			8260B			
		CG	40 ml	HCL			8011			
		***								
REMARK	A	Sandr	d - 0	2116' FP						
MATERIA		G = Amber G				P = Polyproj	oylene; S = Silicone;	T = Teflon: O = 0	Other (Specify	

CNV

#### GROUNDWATER SAMPLING LOG



SITE NAME: Cloud's Chevron / University Mart / Handy F	Pantry	SITE LOCATION:	Columbia, South Carolina	on one	
WELL NO: MW - 16	SAMPLE ID:			DATE:	

#### **PURGING DATA** WELL SCREEN INTERVAL DEPTH: 5 feet to 25 feet WELL Total Well Depth (feet): STATIC DEPTH PURGE PUMP TYPE 25 DIAMETER (inches): TO WATER (feet): OR BAILER: - STATIC DEPTH TO WATER) WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH WELL CAPACITY feet) X gallons/foot = feet gallons CUMUL. TURB VOLUME VOLUME TEMP. COND. DO TIME COLOR Δ Δ A IDITY ODOR Δ Δ **PURGED PURGED** (°C) (su) (µS) (mg/L) (NTU) (gallons) (gallons) WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 SAMPLING DATA SAMPLED BY (PRINT) SAMPLER(S) SIGNATURE(S): SAMPLING DATE: SAMPLING TIME:

#### PUMP OR TUBING TUBING FIELD-FILTERED: FILTER SIZE: DEPTH IN WELL (feet): MATERIAL CODE: Filtration Equipment Type: DUPLICATE COLLECTED: N SAMPLE INTENDED SAMPLING PUMP ANALYSIS SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION **EQUIPMENT** FLOW AND/OR CODE RATE METHOD (ml/min) TOTAL VOL SAMPLE MATERIA PRESERVATIVE FINAL CONTAINER VOLUME ADDED IN FIELD ID CODE LCODE USED pH (mL) HCL ---CG 40 ml 8260B CG 40 ml HCL 8011 REMARKS:

STABILIZATION CRITERIA

MATERIAL CODES: AG = Amber Glass;

SAMPLING EQUIPMENT CODES:

CG = Clear Glass;

APP = After Peristaltic Pump;

RFPP = Reverse Flow Peristaltic Pump;

PP = Polypropylene;

SM = Straw Method (Tubing Gravity Drain);

BP = Bladder Pump;

S = Silicone;

T = Teflon;

O = Other (Specify)

ESP = Electric Submersible Pump;

O = Other (Specify)

PE = Polyethylene;

B = Bailer;



SITE NAME:	Cloud's Che	vron	/ Univ	ersity Mar	/ Han	dy Pantry		SITE LOCATION:	Columb	ia, South C	arolin				
WELL NO	: MW	-1	7			SAMP	LE ID:				1	DATE	5-	28-15	_
						PU	RGIN	G DATA					103		
	ER (inches):			/ell Depth (fe	3	0	DEPTH	SCREEN INTE	30 fe	STATIC TO WAT	ER (fe	et): 200	7 P	URGE PUM R BAILER:	IP TYPE
WELL VO	DLUME PURGE	≣: 1 V	VELL VO	DLUME = (T = (	OTALW	ELL DEPTH fee		FIC DEPTH TO		X WELL C	CAPAC	ITY gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	VO PUI	IMUL. LUME RGED Illons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
700	_	-	_	19.9	-	6.6	_	184	_	.96	_	31,6	_	ci	A)c.
									1						
														-	
			-												
									-						
WELL CA	PACITY (Gallo	ns Per	Foot):	<b>0.75</b> " = 0.02	; 1"=	0.04; 1.25	" = 0.06;	2" = 0.16;	<b>3</b> " = 0.37	7; <b>4</b> " = 0.65;	5"	= 1.02; 6	i" = 1.4	47; <b>12"</b> =	5.88
						SAN	/PI IN	G DATA							
CAMPIE	RV (DDINIT)				04140	EBYS) SICK				CAMPLING				I INC TIME	

DEPTH IN	R TUBING NWELL (feet): TE COLLECTE	B	(N)	TUBING MATERIAL CODE	: 13	4	FIELD-FILTERED: Y FILTER SIZE: Filtration Equipment Type:					
	PLE CONTAIN			SAMP	LE PRESERVATION	ı	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)			
SAMPLE D CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			,			
		CG	40 ml	HCL			8260B	B				
		CG	40 ml	HCL			8011	13				
REMARK	S:					- 15-78						
AATEDIA	L CODES: A	G = Amber G	lass: CG =	Clear Glass; PE	= Polyethylene; F	P = Polypro	pylene; S = Silicone;	T = Teflon; O = (	Other (Specify			

# check

## **GROUNDWATER SAMPLING LOG**

SITE NAME: Cloud's Chevron / University Mart / Handy	Pantry	SITE LOCATION: Columbia, South Carolina	
WELL NO: MW-18	SAMPLE ID:		DATE: 5-28-15

WELL VO		WELL S DEPTH	WELL SCREEN INTERVAL DEPTH: 10 feet to 30 feet T - STATIC DEPTH TO WATER) X N				STATIC DEPTH TO WATER (feet) 24/4 / OR BA							
WELL VOI	OWE PURGE		= (	OTALW	fee	et – SIAI	IC DEPTH TO	(WATER)	X WELL	CAPAC	ITY gallons	/foot	=	gallon
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ОДО
10:45			21.3	_	6.7	_	2.2.2.	-	0.83	_	6.7	-	CL	Yes
WELL CAP	ACITY (Gallor	ns Per Foot):	<b>0.75</b> " = 0.02	2; 1"=	0.04; 1.25	5" = 0.06;	2" = 0.16;	<b>3"</b> = 0.37	<b>4"</b> = 0.65;	5" =	: 1.02; 6	" = 1.4	17; <b>12"</b> =	5.88

#### SAMPLING DATA SAMPLED BY (PRINT) SAMPLER(S) SIGNATURE(S): SAMPLING DATE: SAMPLING TIME: 5-28-05 10:45 TUBING () MATERIAL CODE: PUMP OR TUBING FIELD-FILTERED: (N) FILTER SIZE: DEPTH IN WELL (feet): Filtration Equipment Type: DUPLICATE COLLECTED: (N) SAMPLE INTENDED SAMPLING PUMP ANALYSIS SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION **EQUIPMENT** FLOW AND/OR CODE RATE METHOD (ml/min) TOTAL VOL SAMPLE MATERIA **PRESERVATIVE** FINAL CONTAINER VOLUME ADDED IN FIELD ID CODE LCODE USED pH (mL) CG HCL 40 ml 8260B CG 40 ml HCL 8011 REMARKS: MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify) SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

checkfor F.P.

SITE Clou	d's Chevron / University Mart / Ha	andy Pantry	SITE Columbia, South Card	lina
WELL NO:	MW-19	SAMPLE ID:		DATE: 5-28-15

WELL		Total M	(all Donth /fo	ot).	PU		CREEN INTE	DVAL	STATIC	DEDTI		Lo	UDGE DUM	DTVDE
	R (inches):	Total W	/ell Depth (fe	3	0	DEPTH	TO WAT	ER (fe	et):24,0	0 0	OR BAILER:			
WELL VO	LUME PURGE	: 1 WELL VO	DLUME = (T = (	OTAL W	ELL DEPTH fee	- STAT	IC DEPTH TO	(WATER) feet)	X WELL	CAPAC	ITY gallons			gallon
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
Nico		_	21.2		6.9	-	168		0.47		16,	>_	CL	Yes
HOTEV :														
	PACITY (Gallo	****												

#### SAMPLING DATA SAMPLED BY (PRINT) SAMPLER(S) SIGNATURE(S): SAMPLING DATE: SAMPLING TIME: Ryan Ches 12100 5-28-15 FIELD-FILTERED: Y N TUBING/) MATERIAL CODE: PUMP OR TUBING FILTER SIZE: DEPTH IN WELL (feet): Filtration Equipment Type: DUPLICATE COLLECTED: N SAMPLE INTENDED SAMPLING EQUIPMENT PUMP ANALYSIS SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION **FLOW** AND/OR CODE RATE METHOD (ml/min) TOTAL VOL MATERIA PRESERVATIVE SAMPLE FINAL CONTAINER VOLUME ADDED IN FIELD ID CODE LCODE USED pH CG HCL 40 ml 8260B 40 ml HCL 8011 CG REMARKS: MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES:

BP = Bladder Pump;

SM = Straw Method (Tubing Gravity Drain);

ESP = Electric Submersible Pump;

O = Other (Specify)

B = Bailer;

APP = After Peristaltic Pump;

RFPP = Reverse Flow Peristaltic Pump;





SITE CK	oud's Chevron / University Ma	rt / Handy Pantry	SITE Columbia, S	outh Carolina
WELL NO:	MW-20	SAMPLE ID:		DATE: 5-28-15
		PURGI	NG DATA	DTP 2261 B7

WELL		Total W	ell Denth (fee	t).			S DATA	RVAL	STATIC	DEPTH	V	TP	226 URGE PUM	
	R (inches):	10.0111	ell Depth (fee	" D.	5	DEPTH	CREEN INTE	15 fee	TOWAT	ER (fee	et): 22.6	10	R BAILER:	
WELL VO	LUME PURGE:	1 WELL VO	LUME = (To	OTAL WE	ELL DEPTH	- STAT et -	IC DEPTH TO	WATER) feet)	X WELL C	APAC	ITY gallons		=	gallon
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
			75	J. A	·ch	£ TT	00 ,	0	rode	10				
											V			
									(III)					

PUMP OF DEPTH IN	TUBING TWELL (feet): TE COLLECTE		N	TUBING MATERIAL CODE	McCon PE		FIELD-FILTERED: Filtration Equipment	Y N FI	LTER SIZE:					
SAM	PLE CONTAIN	ER SPECIFIC	CATION	SAMP	LE PRESERVATION	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)					
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			,,,,,,,					
		CG	40 ml	HCL	HCL	HCL	HCL	HCL	HCL			8260B		
		CG	40 ml	HCL		<u> </u>	8011							
REMARK	  s:   Not 9	campla.	1 0.	102'FP										
MATERIA	L CODES: A	G = Amber G	lass; CG =	Clear Glass; PE :	= Polyethylene;	PP = Polyprop	oylene; S = Silicone;	T = Teflon; O = 0	Other (Specify					

NAME:	Cloud's Che	evron / Uni	versity Mar	t / Hand	ly Pantry	LOCA	TION: C	olumb	ia, South C	arolina	3			
WELL NO	o: Mw	-21			SAME	PLE ID:					DATE	5.	-29-1	15
					-	IDOING D						-		)
	ER (inches):		Well Depth (fe		5	WELL SCRE DEPTH: 5	EN INTER	5 fee	STATIC et TO WAT			100,000	JRGE PUM R BAILER:	P TYPE
WELL VO	OLUME PURG	E: 1 WELL	VOLUME = (7 = (	TOTAL WE		I - STATIC DI et -	PTH TO	WATER) feet)		APACI		/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (galions)	(°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
										, <				
			71	U	ye "	1		$\sim$	200					
		De	5'		·C	LCU								
WELL CA	APACITY (Gallo	ons Per Foot)	: 0.75" = 0.03	2; 1" = (	0.04; 1.2	<b>5</b> " = 0.06; <b>2</b> "	= 0.16;	<b>3"</b> = 0.37	'; <b>4"</b> = 0.65;	5" =	1.02; 6	5" = 1.4	7; 12" =	5.88
SAMPLE	D BY (PRINT)			SAMPL		MPLING D NATURE(S):	ATA		SAMPLING I			SAMPL	ING TIME:	
DEPTH IN	R TUBING NWELL (feet): TE COLLECTE	D: Y	N	TUBING	G RIAL CODE:				FIELD-FILTE Filtration Equ	RED:	YN		FILTER	SIZE:
	PLE CONTAIN				SAMPI	LE PRESERVAT	TON		INTENDI ANALYS AND/OI METHO	18 R	EQU	MPLING IIPMEN CODE	T F	AMPLE PUMP LOW RATE nl/min)
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME	U	RVATIVE SED	TOTAL VOL ADDED IN FIELI (mL)	, t	NAL H						
		CG	40 ml	HC	CL				8260E	}				

REMARKS:

HCL

40 ml

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; SAMPLING EQUIPMENT CODES:

B = Bailer; BP = Bladder Pump; ESP = Elect tump; SM = Straw Method (Tubing Gravity Drain); APP = After Peristaltic Pump; B = B RFPP = Reverse Flow Peristaltic Pump; ESP = Electric Submersible Pump; O = Other (Specify)

8011

O = Other (Specify)

check for F.P.

## **GROUNDWATER SAMPLING LOG**

SITE Cloud's Chevron / University Mart / Handy F	Pantry	SITE Colur	mbia, South Carolina	
WELL NO: MW-22	SAMPLE ID:			DATE: 5-28-15

R (inches):	Total W	/ell Depth (fe	et): 3	0	WELL S DEPTH	WELL SCREEN INTERVAL STAT			STATIC DEPTH TO WATER (feet): 21,85		5 P	URGE PUM R BAILER:	PIZE
LUME PURGE	: 1 WELL VO	DLUME = (T = (	OTAL W	ELL DEPTH fee	I - STAT et -	IC DEPTH TO	WATER) feet)	X WELL C	CAPAC		/foot	=	gallons
VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
	_	20.6	_	6.8	-	234	-	0.93	_	/3.1	~	_	Yes
	VOLUME PURGED	VOLUME PURGE: 1 WELL VOLUME VOLUME PURGED PURGED	VOLUME PURGE: 1 WELL VOLUME = (T = (  CUMUL. VOLUME PURGED (PURGED (gallons) (9C)	LUME PURGE: 1 WELL VOLUME = (TOTAL W = (  VOLUME VOLUME PURGED (°C) (gallons) (gallons)	Total Well Depth (feet): 30  LUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH feeth): 1 WELL VOLUME = (TOTAL WELL DEPTH feeth): 1 WELL VOLUME   TEMP.   PURGED (gallons) (gallons) (°C) (°C) (su)	Total Well Depth (feet): 30   WELL S	LUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO feet -	Total Well Depth (feet): 30 WELL SCREEN INTERVAL DEPTH: 0 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to 30 feet to	Total Well Depth (feet):  R (inches):  WELL SCREEN INTERVAL DEPTH: O feet to 30 feet TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT TO WAT T	Total Well Depth (feet):  R (inches):  WELL SCREEN INTERVAL DEPTH TO WATER (feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O feet to 3 O f	Total Well Depth (feet): 30   WELL SCREEN INTERVAL DEPTH TO WATER (feet): 21, 85	R (inches):    Total Well Depth (feet): 30   WELL SCREEN INTERVAL DEPTH TO WATER (feet): 21,85   O	R (inches):  Total Well Depth (feet):  B (inches):  WELL SCREEN INTERVAL DEPTH TO WATER (feet): 21,85 OR BAILER:  LUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X Geet (feet): 21,85 OR BAILER:  VOLUME PURGED (Gallons)  CUMUL. VOLUME PURGED (9C)  Δ

1	BY (PRINT)	Moloc	made	SAMPLER(S) SIG	NATURE(S):	ick	5-28-15	SAMPLING	IIME:	
DEPTH IN	TUBING I WELL (feet):	7	<b>-</b> ,	TUBING MATERIAL CODE	_		FIELD-FILTERED: Y S FILTER SIZE. Filtration Equipment Type:			
DUPLICA	TE COLLECTE	D: Y	75							
SAMI	PLE CONTAIN	ER SPECIFI	CATION	SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)	
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		13		
		CG	40 ml	HCL			8260B	,		
		CG	40 ml	HCL			8011			
REMARKS	S:									
MATERIA	L CODES: A	G = Amber G	lass; CG =	Clear Glass; PE	Polyethylene;	PP = Polyprop	oylene; S = Silicone;	T = Teflon; O = 0	Other (Specify	
AMPLIN	G EQUIPMENT	CODES:		Peristaltic Pump; erse Flow Peristaltic		= Bladder P aw Method (T	ump; ESP = Electric ubing Gravity Drain);	Submersible Pump; O = Other (Specify)		

check for

## **GROUNDWATER SAMPLING LOG**

SITE NAME: Cloud's Chevron / University Mart / Handy I	antry	SITE LOCATION:	Columbia, South Carolina	
WELL NO: MW-23	SAMPLE ID:			DATE: 5- 28-15

					PU	RGIN	G DATA							
	R (inches):	200000000000000000000000000000000000000	Vell Depth (fe		30	WELL S	CREEN INTE	RVAL 30 fee	STATIC t TO WAT	TER (fe	et):24,2		URGE PUM R BAILER:	
WELL VO	LUME PURGE	: 1 WELL V	OLUME = (T = (			- STAT	IC DEPTH TO	WATER) feet)	X WELL	CAPAC	ITY gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
12115	_		20.8	-	6.9	_	273	-	0.79	-	13.4		CL	Tes
										-			2025-19812	
WELL CA	PACITY (Gallor	ns Per Foot):	0.75" = 0.02	2; 1"=	= 0.04; 1.28	5" = 0.06;	<b>2"</b> = 0.16;	<b>3" =</b> 0.37	; 4" = 0.65	5"	= 1.02; 6	S" = 1.	47; <b>12"</b> =	5.88
							G DATA							
The		eloca	acle	'H	PLER(S) SIGI	VATURE(S	S): Corno	ek	5-28	-16	7	12:		
	TUBING WELL (feet): E COLLECTEI	D: Y	N	MATE	NG () ERIAL CODE:	_	-		FIELD-FILT Filtration Eq			)	FILTER	SIZE:
JUPLICAL	E COLLECTE	J. Y	10											

SAMPLE CONTAINER SPECIFICATION				SAMP	LE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)	
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		13	
		CG	40 ml	HCL			8260B	1	
		CG	40 ml	HCL			8011	/	
								U	
REMARK	S:			I.				<u></u>	

Intry SITE Columbia, Sout	h Carolina
SAMPLE ID:	DATE:

#### **PURGING DATA** Total Well Depth (feet): 30 WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet WELL PURGE PUMP TYPE STATIC DEPTH DIAMETER (inches): TO WATER (feet): OR BAILER: WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY feet feet) gallons/foot = gallons CUMUL. VOLUME TURB VOLUME COND. TEMP. DO TIME Δ Δ Δ IDITY Δ COLOR ODOR **PURGED PURGED** (su) (°C) (µS) (mg/L) (NTU) (gallons) (gallons) WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLE	D BY (PRINT)			SAMPLER(S) SIG	NATURE(S):		SAMPLING DATE:	SAMPLING	TIME:
	R TUBING N WELL (feet):			TUBING MATERIAL CODE			FIELD-FILTERED: Filtration Equipment		ILTER SIZE:
DUPLICA	TE COLLECTE	D: Y	N						
SAM	PLE CONTAIN	ER SPECIFI	CATION	SAMP	LE PRESERVATION	ı	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
		CG	40 ml	HCL			8260B		
		CG	40 ml	HCL			8011		
		****							
REMARK	S:	of L	ocated	? .					
MATERIA	AL CODES: A	G = Amber G	Blass; CG =	Clear Glass; PE	= Polyethylene; F	PP = Polypro	pylene; S = Silicone;	T = Teflon; O =	Other (Specify)
SAMPLIN	IG EQUIPMEN	T CODES:		Peristaltic Pump; verse Flow Peristaltic		= Bladder F	Pump; ESP = Electric	Submersible Pump; O = Other (Specify	

check for

SITE C	loud's Chevron / University	Mart / Handy Pantry	SITE LOCATION:	Columbia, South Carolina	
WELL NO:	MW-25	SAMPL	E ID:	DATE: 5-18-15	

	R (inches):	Total W	/ell Depth (fe	et): 2.5	5.6	DEPTH		fee		ER (fe	et): 20. 6	5 P	URGE PUM R BAILER:	
WELL VO	LUME PURGE	: 1 WELL V	= (T	OTAL W		I – STAT et –	IC DEPTH TO	(WATER) feet)		CAPAC	ITY gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
9:00		_	20.7	_	6.8	_	196		0.87	-	8.1	<u> </u>	CL	yes
									100 - 00					
WELL CA	PACITY (Gallo	ns Per Foot):	0.75" = 0.02	2; 1"=			2" = 0.16; G DATA	3" = 0.37;	4" = 0.65	5"	= 1.02; •	<b>5" =</b> 1.	47; 12" =	5.88
SAMPLED Hyd	BY (PRINT)	Cormar	K		LER(S) SIG	NATURE(S		I	SAMPLING			-	PLING TIME	

SAMPLE	BY (PRINT)	_	1.2	SAMPLER(S) SIG	A 45	0 _	SAMPLING DATE:	SAMPLING	
PUMP OF	R TUBING * N WELL (feet):	Corma	-	TUBING MATERIAL CODE	McCormoc		## 78 - 75  FIELD-FILTERED: Filtration Equipment 1		ILTER SIZE:
	PLE CONTAIN		CATION	SAMP	LE PRESERVATION	ı	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		B	
		CG	40 ml	HCL			8260B	1	
		CG	40 ml	HCL			8011		
								J	
REMARK	S:								
MATERIA	L CODES: A	G = Amber G	ilass; CG =	Clear Glass; PE	= Polyethylene; F	PP = Polyprop	oylene; S = Silicone;	T = Teflon; O =	Other (Specif
SAMPLIN	G EQUIPMENT	CODES:		Peristaltic Pump; rerse Flow Peristaltic		= Bladder P w Method (T	ump; <b>ESP</b> = Electric ubing Gravity Drain);	Submersible Pump; O = Other (Specify	

	· Mw	-26			SAMP		OCATION:				DATE	1	18+1	S
	, - 4 4	NO				11	Charles Departs					7	7	
						RGING								
ELL AMETE	R (inches):	Total V	Well Depth (fe	et): 30		DEPTH:	REEN INTER	VAL fee	STATIC et TO WAT	DEPTH ER (fee	t):224	9 0	URGE PUN R BAILER:	
ELL VC	DLUME PURGE	: 1 WELL V	OLUME = (T = (	OTAL WELL	DEPTH fee		C DEPTH TO V	VATER) feet)	X WELL	CAPACI	TY gallons		=	gallons
IME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
319			26.4	- (	712		10/2	_	0,6	-	2.8	+	C1	\$11
Fol	D BY (PRINT)	mis V	r Gr	SAMPLE		NATURE(S)	DATA		SAMPLING	17	S I	13	PLING TIME	
	WELL (feet):	D: Y	(N	MATERIA	L CODE:				Filtration Eq	uipment				
	PLE CONTAIN		har .		SAMPL	LE PRESER	RVATION		INTENE ANALY AND/O METHO	SIS OR	EQI	MPLIN JIPME CODE	IG NT	AMPLE PUMP FLOW RATE ml/min)
	# CONTAINER S	MATERIA L CODE	VOLUME	PRESER\ USE		TOTAL' ADDED IN (mL)	FIELD FI	NAL oH						
		CG	40 ml	HCL			-	-	8260	В	8			
			40 ml	HCL			-		8011				-	
		CG												
MPLE CODE		CG				4								

SITE Clo	oud's Chevron / University Mart / Handy	Pantry	SITE LOCATION: Columbia, South Carolina	
WELL NO:	Mw-27	SAMPLE ID:		DATE: 5-28-15
		PLIBGII	NG DATA	

						IRGIN	G DATA							
	R (inches):		/ell Depth (fe			WELL S DEPTH	CREEN INTE	RVAL 30 fe	STATIC TO WAT	DEPTH ER (fe	H et):/7,7.	5 P	URGE PUM R BAILER:	
WELL VO	LUME PURGE	: 1 WELL V	OLUME = (T = (	OTAL W	ELL DEPTH	- STAT	IC DEPTH TO		) X WELL C	APAC	ITY gallons	s/foot	-	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
H130	1	_	20.2	_	7.0	-	200		0.42	_	21	-	CL	NO
WELL CA	PACITY (Gallo	ns Per Foot):	0.75" = 0.02	2; 1"=	0.04; 1.25	5" = 0.06;	<b>2"</b> = 0.16;	3" = 0.3	7; <b>4"</b> = 0.65;	5" =	= 1.02;	5" = 1.4	47; <b>12"</b> =	5.88

# SAMPLING DATA | SAMPLER(S) SIGNATURE(S):

SAMPLE	BY (PRINT)	COCM	coff	SAMPLER(S) SIG	NATURE(S):	-k	SAMPLING DATE: 5-28-15	SAMPLING 8,30	
PUMP OF DEPTH IN	R TUBING N WELL (feet):	_		TUBING MATERIAL CODE				Y N F	ILTER SIZE:
DUPLICA	TE COLLECTE	D; Y	(1)						
SAM	PLE CONTAIN	ER SPECIFIC	CATION	SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		B	
		CG	40 ml	HCL			8260B	1	-
		CG	40 ml	HCL		-	8011		
							_	(1)	
DEMARK									
REMARK									
MATERIA	L CODES: A	G = Amber G	lass; CG =	Clear Glass; PE	= Polyethylene;	PP = Polypro	pylene; S = Silicone;	T = Teflon; O = 0	Other (Specify)
SAMPLIN	G EQUIPMEN	T CODES:		Peristaltic Pump; verse Flow Peristaltic		P = Bladder P aw Method (T	ump; ESP = Electric ubing Gravity Drain);	Submersible Pump; O = Other (Specify)	

SITE CK NAME:	oud's Chevron / University Mart / Handy F	Pantry	SITE LOCATION:	Columbia, South Carolina	
WELL NO:	MW-28	SAMPLE ID:			DATE: 5-28-15
					all.

#### **PURGING DATA** WELL SCREEN INTERVAL DEPTH: 5 feet to 30 feet PURGE PUMP TYPE OR BAILER: 3 WELL Total Well Depth (feet): 30 STATIC DEPTH TO WATER (feet): 7,97 DIAMETER (inches): OR BAILER: WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) WELL CAPACITY feet) X feet gallons/foot = gallons CUMUL. TURB VOLUME COND. VOLUME TEMP. DO TIME Δ Δ Δ Δ IDITY Δ COLOR ODOR PURGED **PURGED** (su) (°C) (µS) (mg/L) (NTU) (gallons) (gallons) 8145 184 13.4 CL Yes 20,2 7. Z 0.99

#### SAMPLING DATA

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

PUMP OR DEPTH IN	WELL (feet):	re( beau		TUBING MATERIAL CODE	Clarmor		5-2%-15 FIELD-FILTERED: Filtration Equipment		) LTER SIZE:
DUPLICA"	TE COLLECTE	D: Y	N						
SAMI	PLE CONTAIN	ER SPECIFIC	CATION	SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		B	
		CG	40 ml	HCL			8260B	1	
		CG	40 ml	HCL			8011		CH
REMARK	g:								
						'			
MATERIA	L CODES: A	G = Amber G	lass; CG =	Clear Glass; PE	= Polyethylene;	PP = Polypro	pylene; S = Silicone;	T = Teflon; O =	Other (Specify



SITE Cloud's Ch	evron / Univ	ersity Mar	t / Handy	Pantry		TE CONTION:	Columbia	a, South	Carolin	a			
WELL NO: MW	29			SAMP		OCATION.				DATE	5-7	18-15	
				PU	RGING	DATA						17.	91
WELL DIAMETER (inches): WELL VOLUME PURC		Vell Depth (fe		)	WELL SO DEPTH: - STATIO	REEN INTE	30 fee	t TOV	FIC DEPTH VATER (fe	et):[7,9	P	JRGE PUM R BAILER:	
TIME VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
(gallerie)	(ganoris)			)	A. N	et							
	X	re	, "\	Co	,000								
			,										
VELL CAPACITY (Ga	lons Per Foot):	<b>0.75</b> " = 0.0	2; <b>1"</b> = 0	.04; <b>1.2</b> 5	5" = 0.06;	2" = 0.16;	<b>3" =</b> 0.37	; <b>4</b> " = 0	.65; <b>5</b> "	= 1.02;	6" = 1.	47; <b>12"</b> =	5.88
RAMPLED BY (PRINT)	W/		SAMPLE		NATURE(S)	DATA	"		NG DATE:		SAMF	LING TIME	:
PUMP OR TUBING DEPTH IN WELL (feet) DUPLICATE COLLECT	:	N	TUBING	IAL CODE:	21				LTERED: Equipmen			FILTER	SIZE:
SAMPLE CONTAI	NER SPECIFIC			SAMPI	LE PRESER	RVATION		ANA	NDED LYSIS D/OR THOD	EQ	MPLIN UIPME CODE	G NT	AMPLE PUMP FLOW RATE ml/min)
SAMPLE CONTAINER S	MATERIA L CODE	VOLUME	US	RVATIVE SED	TOTAL ' ADDED IN (mL)	FIELD	PH PH						
	CG	40 ml	HC						60B	-			
	CG	40 ml	НС	iL_		1		80					
							-				**		
		1		100		- 111						19	
REMARKS:  NOTE  MATERIAL CODES:	Samp		O.O.	FF	Polyethyle		Polypropy		= Silicone	<b>T</b> = Te		O = Other	/O

SITE Cloud's Chevron / University Mart / Handy I	Pantry	SITE LOCATION:	Columbia, South Carolina	
WELL NO: MW-30	SAMPLE ID:			DATE: 5-28-15

#### **PURGING DATA**

							DATA	21.72/202		-		1 -		
	R (inches):		/ell Depth (fe			DEPTH:	CREEN INTE	30 fee	t TO WAT			7 0	URGE PUM R BAILER:	
WELL VO	LUME PURGE	: 1 WELL VO	DLUME = (T = (	OTAL W		- STAT	IC DEPTH TO	WATER) feet)	X WELL (	CAPAC	ITY gallons	/foot	-	gallon
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
0;00	-	_	20.8	-	7.2	_	199	~	0.84	-	21.4	_	CL	mo
								-						
										-				

PUMP OR	TUBING WELL (feet):	-		TUBING MATERIAL CODE	35	rde	5-28-15 FIELD-FILTERED: Filtration Equipment	Y NO FI	FILTER SIZE:		
	PLE CONTAIN		CATION	SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)		
SAMPLE ID CCDE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
		CG	40 ml	HCL			8260B	13			
		CG	40 ml	HCL			8011	B			
REMARK	S:	G = Amber G	lace: CG =	Clear Glass; PE	= Polyethylene;	PP = Polypro	pylene: S = Silicone:	T = Teflon: O =	Other (Specify		

SITE NAME:	Cloud's Ch	nevron / U	niversity Ma	art / Handy I	Pantry	S	ITE OCATION	Colum	bia, S	South C	arolin	a		_	
WELL	NO: MW	-31			SAMP	LE ID:	97111011					DATE	5-	28-15	
					PH	IRGING	DAT	^					000	2066	1'87
	ER (inches):	Tota	Well Depth (	feet): 35		WELL SO	REEN IN	ITERVAL	feet	STATIC TO WAT	DEPTI ER (fee	125.6	52 P	リタロ URGE PUM R BAILER:	IP TYPE
			-		fee	et –	CUEPIN	fee	et) X	WELL	CAPAC	gallons	s/foot	=	gallons
TIME	VOLUME PURGED (gallons)	VOLUM PURGE (gallons	E TEMP.	Δ	pH (su)	Δ	COND (μS)	). Δ	(	DO mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
			-		-	<del>                                     </del>	1,	1	-						
			1		~	600	W.	1		-	-	-			
	-	-	DR	re	Y				1						
			1	1	-				+	_	-			_	
	-														
		1	+	1		-		+-	$\vdash$						
		-	-		-										
		_	+		-	-		-	$\vdash$				_		
WELL CA	APACITY (Gall	ons Per Foot	): 0.75" = 0.0	2; 1" = 0.04	1.25	" = 0.06:	2" = 0.16	3" = 0.3	7. 4	" = 0.65:	5" -	102 6	" - 1 1	7. 400	
				- A				0.0	., 4	- 0.00,		1.02, 6	- 1.4	7; 12" = :	5.88
SAMPLE	D BY (PRINT)				SAM	IPLING	DATA	4							
Ry	on M	clara	ark	SAMPLER(	S) SIGN	ATURE(S):	b. 000 d	ole.		PLING D			SAMPL	ING TIME:	
PUMP OF DEPTH IN	TUBING WELL (feet):		CILI	TUBING MATERIAL			Com	-0/-0	FIEL	D-FILTER	RED:	Y N	1 Li	FILTER	SIZE:
DUPLICA	TE COLLECTE	D: Y	N						Title	non Equi	pinera	уре.			
SAM	PLE CONTAIN	ER SPECIFI	CATION	:	SAMPLE	PRESERV	/ATION		1	NTENDE ANALYSI AND/OR METHOD	S	EQUI	PLING PMEN ODE	T FI	MPLE UMP LOW ATE I/min)
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVAT USED	IVE	TOTAL VO ADDED IN FI (mL)		FINAL pH						1,111	
		CG	40 ml	HCL						8260B				-	
		CG	40 ml	HCL	_		-			8011				-	
							+								
REMARKS	S:		_												
	L CODES: A			Clear Glass;		olyethylene		Polypropy		S = Silic	one;	T = Teflo	n; C	) = Other (S	pecify)
SAMPLING	3 EQUIPMENT	CODES:	APP = After RFPP = Rev	Peristaltic Pum erse Flow Peris	p; E taltic Pu	B = Bailer; mp; SM	BP = E = Straw M	Bladder Pur Method (Tul	mp; bing Gr	ESP = E ravity Drai	lectric in);	Submersi O = Othe	ble Pur	mp; cify)	
										•			1-6-	"	

SITE NAME: Cloud's Chevron / University Mart / Handy F	Pantry	SITE COL	lumbia, South Carolina	
WELL NO: MW-32	SAMPLE ID:			DATE: 5-28-/5

#### **PURGING DATA**

						I/OII4	DATA							
	R (inches):		Vell Depth (fe	-	30	DEPTH	CREEN INTE	30 fee	STATIC et TO WAT	ER (fee	et): 22,0	O O	URGE PUM R BAILER:	P TYPE
WELL VO	LUME PURGE	: 1 WELL V	OLUME = (1 = (	OTALW	ELL DEPTH fee		IC DEPTH TO	WATER) feet)	X WELL	CAPAC	ITY gallons	foot	=	gallon
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
9:45	_	_	21.1	_	6.8		188	_	0.89	_	6,8	_	CL	y e
									,					

## SAMPLING DATA SAMPLER(S) SIGNATURE(S):

				34	WIF LING DA	17				
SAMPLE	BY (PRINT)		A	SAMPLER(S) SIG	NATURE(S):		SAMPLING DATE:	SAMPLING TIME:		
Ru	an Me	Como	r H	Turan !	Mr Carms	ck	5-28-15	9.45		
DEPTHIN	WELL (feet):	~		TUBING U MATERIAL CODE			FIELD-FILTERED: Filtration Equipment		LTER SIZE:	
DUPLICA	TE COLLECTE	:D: Y	P				T		SAMPLE	
SAM	SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION						INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	PUMP FLOW RATE (ml/min)	
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		13		
		CG	40 ml	HCL			8260B			
		CG	40 ml	HCL			8011			
								16		
REMARK	S:									
MATERIA	L CODES: A	G = Amber G	Glass; CG =	Clear Glass; PE	= Polyethylene;	PP = Polypro	pylene; S = Silicone;	T = Teflon; O =	Other (Specif	
	L CODES: A		APP = After	Clear Glass; PE: Peristaltic Pump; verse Flow Peristaltic	B = Bailer; Bl	P = Bladder P	,,	T = Teflon; O = (  C Submersible Pump; O = Other (Specify)		

SITE Cloud's Chevron / University Mart / Handy F	Pantry	SITE CO	olumbia, South Carolina	
WELL NO: MW-33	SAMPLE ID:			DATE: 5-28-15

#### **PURGING DATA**

WELL	D. 6 - 1 - 1	Total W	ell Depth (fe	et): 3	5		CREEN INTE		STATIC				JRGE PUM R BAILER:	
WELL VO	R (inches): LUME PURGE:	1 WELL VO	DLUME = (T = (	OTAL W	ELL DEPTH	- STAT	DEPTH TO	WATER) feet)	X WELL					gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOI
15:30	-	_	21,1	_	7.1	_	232	_	0.91	4	16		CL	Yes

	WELL (feet):	_	nock	TUBING () MATERIAL CODE:	mcCarme		FIELD-FILTERED: Filtration Equipment		LTER SIZE:
	PLE CONTAIN		CATION	SAMP	LE PRESERVATION	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		13	
		CG	40 ml	HCL			8260B		
		CG	40 ml	HCL			8011		
REMARK		G = Amber G	Blass; CG =	Clear Glass; PE	= Polyethylene;	PP = Polypro	pylene; S = Silicone;	T = Teflon; O =	Other (Specify

SITE Cloud's Chevron / University Mart / Handy	Pantry	SITE LOCATION:	Columbia, South Carolina	
WELL NO: MW-34	SAMPLE ID:			DATE: 5-28-15

#### **PURGING DATA**

						ILO III	DATA							
WELL DIAMETE	R (inches):	Total W	ell Depth (fe	et): 3	5	DEPTH:	CREEN INTE	35 feet	STATIC TO WAT	ER (fe	et): 247	12 P	URGE PUN R BAILER:	P TYPE
WELL VO	LUME PURGE	: 1 WELL VO	DLUME = (T = (	OTAL W	ELL DEPTH fee	- STAT	IC DEPTH TO	WATER) feet)	X WELL C	APAC	gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
11:00		_	20.3	)	6.7	_	241		0.94	-	26	_	ш	ye
WELL OA	PACITY (Gallo	na Par Faath	0.75% - 0.00	2. 4"-	0.04: 4.2	E" = 0.06:	2" - 0.16:	2" - 0.27	4" - 0 65:	£13	- 1.02:	67 - 1	47: 49" -	500

DEPTH IN	TUBING WELL (feet): TE COLLECTE	Colona D: Y	- (N)	TUBING MATERIAL CODE	Victormac —		FIELD-FILTERED: Filtration Equipment		LTER SIZE:
	PLE CONTAIN			SAMP	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)			
SAMPLE ID CCDE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		B	
		CG	40 ml	HCL			8260B	1	
		CG	40 ml	HCL			8011		
								6	
DEMARK									
REMARK	L CODES: A	C = Ambas C	Name: CC =	Clear Glass: PE	= Polyethylene;	PP = Polypro	pylene: S = Silicone:	T = Teflon; O =	Other (Specify



SITE NAME: Cloud's Chevron / University Mart / Handy F	antry	SITE LOCATION: Columbia, South Carolina	
WELL NO: MW-35	SAMPLE ID:		DATE: 5-28-15

PURGING DATA Total Well Depth (feet): 35 WELL SCREEN INTERVAL PURGE PUMP TYPE STATIC DEPTH WELL DEPTH: 20 feet to 35 TO WATER (feet): OR BAILER: DIAMETER (inches): WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) WELL CAPACITY gallons feet feet) X gallons/foot = CUMUL. TURB VOLUME COND. VOLUME TEMP DO ODOR Δ Δ Δ IDITY COLOR TIME Δ PURGED **PURGED** (°C) (su) (µS) (mg/L) (NTU) (gallons) (gallons) Yes 302 0.76 CL-11/15 20.2 7.0 WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA SAMPLING TIME: SAMPHER(S) SIGNATURE(S): SAMPLING DATE: SAMPLED BY (PRINT) 5-28-15 115 Myon one Common CM3C FIELD-FILTERED: FILTER SIZE: PUMP OR TUBING TUBING MATERIAL CODE Filtration Equipment Type: DEPTH IN WELL (feet) DUPLICATE COLLECTED: 0 SAMPLE INTENDED SAMPLING PUMP ANALYSIS SAMPLE PRESERVATION EQUIPMENT FLOW SAMPLE CONTAINER SPECIFICATION AND/OR CODE RATE **METHOD** (ml/min) JOV JATOT FINAL PRESERVATIVE MATERIA SAMPLE CONTANER VOLUME ADDED IN FIELD pH USED ID CODE LCODE (mL) S HCL 8260B CG 40 ml HCL 8011 40 ml CG REMARKS: T = Teflon: O = Other (Specify) MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone: ESP = Electric Submersible Pump; APP = After Peristaltic Pump; B = Bailer BP = Bladder Pump; SAMPLING EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

SITE NAME: Cloud's Chevron / University Mart / Handy F	Pantry	SITE LOCATION:	Columbia, South Carolina	
WELL NO: MW- 36	SAMPLE ID:			DATE: 5-28-15

**PURGING DATA** 

						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DATA							
	R (inches):		/ell Depth (fe	0	5	DEPTH	CREEN INTE	35 fe		ER (fe	et):23.6	3 °	URGE PUM R BAILER:	P TYPE
WELL VOL	LUME PURGE	: 1 WELL VO	DLUME = (T = (	OTALW		et -	IC DEPTH TO	WATER) feet)	X WELL	CAPAC	gallons	/foot	=	gallon
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (µS)	۸	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
0:15	_	_	29.8	-	6.9	_	250	_	0.90	-	12,4	-	LL	yes
										+	<u> </u>			

EPTH IN	TUBING WELL (feet): TE COLLECTE	D: Y	(N)	TUBING NATERIAL CODE	-		FIELD-FILTERED: Filtration Equipment		LTER SIZE:
SAM	PLE CONTAIN	ER SPECIFIC	CATION	SAMP	LE PRESERVATION	ı	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE D CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		13	
		CG	40 ml	HCL			8260B		
		CG	40 ml	HCL			8011		-
								. 0	
REMARK	S:					4			

SITE Cloud's Chevron / University Mart / Handy	Pantry	SITE LOCATION:	Columbia, South Carolina	
WELL NO: MW-37	SAMPLE ID:			DATE 5-28-15

#### **PURGING DATA**

WELL		Total W	fell Depth (fe	et): 2 (		WELLS	CREEN INTER	VAL	STATIC TO WAT	DEPTH	1,73.98	PL	JRGE PUM R BAILER:	P TYPE
	R (inches):	4 11/5) 1 1/4	N. IIIAE (T	OTALW	DEDTU		feet to		X WELL C	ER (IEE	et). Com	0	OAILER.	
WELL VOI	LUME PURGE	: 1 WELL VO	= (	OTALW	fee		IC DEPTH TO	feet)	X	APAG	gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	٨	TURB IDITY (NTU)	Δ	COLOR	ODO
11:45	-		20.4	_	7,0	_	218	_	0,73	_	16,9	~	CL	Yez
		-					-							

PUMP OR DEPTH IN	TUBING  WELL (feet):	_		TUBING MATERIAL CODE	1 Clarimock		5-28-15 FIELD-FILTERED: Filtration Equipment	Y NO FI	LTER SIZE:
	PLE CONTAIN			SAMP	LE PRESERVATION	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
		CG	40 ml	HCL			8260B	13	
		CG	40 ml	HCL			8011	13	
						-			
REMARK	S:								

SITE NAME: Cloud's Chevron / University Mart / Handy F	antry	SITE Columbia, South Carolina	
WELL NO: MW-38	SAMPLE ID:		DATE: 612/15

#### PURGING DATA WELL SCREEN INTERVAL DEPTH: 20 feet to 35 feet PURGE PUMP TYPE STATIC DEPTH WELL Total Well Depth (feet): 35 TO WATER (feet):25,26 OR BAILER: DIAMETER (inches): - STATIC DEPTH TO WATER) WELL CAPACITY WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH feet) X gallons/foot = gallons feet -CUMUL. TURB VOLUME VOLUME TEMP COND DO Δ IDITY COLOR ODOR Δ TIME Δ PURGED PURGED (°C) (su) (µS) (mg/L) (NTU) (gallons) (gallons) 40 WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

#### SAMPLING DATA SAMPLER(S) SIGNATURE(S) SAMPLING DATE SAMPLING TIME: SAMPLED BY (PRINT) 115 FIELD-FILTERED FILTER SIZE: TUBING LN PLIMP OR TUBING Filtration Equipment Type MATERIAL CODE DEPTH IN WELL (feet): DUPLICATE COLLECTED: (N SAMPLE INTENDED SAMPLING PUMP ANALYSIS SAMPLE PRESERVATION EQUIPMENT FLOW SAMPLE CONTAINER SPECIFICATION AND/OR CODE RATE METHOD (ml/min) JCV JATOT FINAL PRESERVATIVE MATERIA SAMPLE VOLUME ADDED IN FIELD CONTAINER pH ID CODE L CODE USED (mL) S HCL 8260B CG 40 ml 8011 40 ml HCL ÇG REMARKS: O = Other (Specify) MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify) RFPP = Reverse Flow Peristaltic Pump;

SITE NAME: Cloud's Chevron / University Mart	Handy Pantry	SITE Columbia, South Carolina	
WELL NO: MW-39	SAMPLE ID:		DATE: 6.2.15

**PURGING DATA** WELL SCREEN INTERVAL DEPTH: 20 feet to 35 STATIC DEPTH PURGE PUMP TYPE WELL Total Well Depth (feet): 35 TO WATER (feet): 26 .45 OR BAILER: -DIAMETER (inches): WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) WELL CAPACITY gallons/foot = gallons feet) X CUMUL. TURB COND. VOLUME DO VOLUME TEMP. COLOR ODOR Δ Δ Δ IDITY TIME Δ (mg/L) PURGED **PURGED** (°C) (su) (µS) (NTU) (gallons) (gallons) slau 1,06 246 95.6 1150 6.14 WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

#### SAMPLING DATA

CAMPLING TIME

CAMPING DATE

PUMP OR DEPTH IN	WELL (feet):	W/a.		TUBING MATERIAL CODE	W		FIELD-FILTERED: Filtration Equipment	. 1.7	TER SIZE
	PLE CONTAIN		N	SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml.)	FINAL pH			
		CG	40 ml	HCL			8260B	B	
		CG	40 ml	HCL			8011	13	
REMARK		G = Amber G	20	Clear Glass; PE	= Polyethylene;	PP = Polypro	pylene; S = Silicone;	T = Teflon; O =	Other (Specify

AME:	Cloud's Chev	ron / Unive	ersity Mart	/ Handy Pantr		OCATION:	olumbia	, South Ca	rolina				
VELL NO	MW-	401		SAM	PLE ID:					DATE	6	2.15	
				Р	URGING	DATA							
VELL	R (inches):		ell Depth (fee	3.5	WELL S	CREEN INTER	5 feet	STATIC I	ER (feet		2 PI	URGE PUN R BAILER:	TYPE
ELL VO	LUME PURGE	: 1 WELL VO	DLUME = (TO = (	OTAL WELL DEPT	H - STAT eet -	IC DEPTH TO	WATER) feet)	X WELL C	APACII	gallons/foot =			gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ pH (su)	Δ	COND. (µS)	Λ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
230	-		25.7	- 6.22		152.3	-	0.92	٨	12,0	_	ur	Strui
													-
/ELL C	APACITY (Gallo	ons Per Foot):	0.75" = 0.02	2; 1" = 0.04; 1	.25" = 0.06;	2" = 0.16;	3" = 0.37	'; <b>4"</b> = 0.65;	5" =	1.02;	6" = 1	.47; 12"	= 5.88
AMPLE	D BY (PRINT)		\	SAMPLER(S) S	IGNATURE(	G DATA		SAMPLING	DATE:	_		PLING TIM	E:
DEPTH I	R TUBING N WELL (feet):	Warl	N	TUBING MATERIAL COI	DE:			FIELD-FILTE Filtration Eq	RED:	Y	_	FILTE	R SIZE:
	MPLE CONTAIN			SAN	MPLE PRESI	ERVATION		INTEND ANALY: AND/O METHO	SIS	EQ	MPLII UIPME CODE	NG ENT	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	ADDED	L VOL IN FIELD IL)	FINAL pH						
D CODE		CG	40 ml	HCL				8260	_		13		
		CG	40 ml	HCL		-		8011		-	$\overline{\mathcal{O}}$		

SAMPLING EQUIPMENT CODES:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass;

APP = After Peristaltic Pump;

REMARKS:

PE = Polyethylene; PP = Polypropylene;

APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

S = Silicone; T = Teflon; O = Other (Specify)

ELL NO:	MW-1	to the second			SAMPI	LE ID:					DATE	6/	2/15	
					DU	DOING	DATA					-	1.	
ELL		Total W	ell Depth (fee	1): 2 =		WELLS	CREEN INTE	RVAL	STATIC	DEPTH			IRGE PUM	PTYPE
AMETER	R (inches):	: 1		25		DEPTH:	2 () feet to	35 fee	X WELL	CAPAC	t):25,6	9 OF	R BAILER:	13
ELL VO	LUME PURGE:	1 WELL VO	= (	TAL WELL	fee	t-	O DEPTH TO	feet)	X	UNITAG		s/foot	-	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED	TEMP.	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
215	(galions)	(gallons)	79:17	- 6			89	-	6.8	_	2.9	-	a.	N
	_									-				
	-		-	-		-		+		+		_		-
	PACITY (Gallor	ns Per Foot):	0.75" = 0.02		SA		G DATA		7; 4" = 0.60 SAMPLING				47; 12" =	
EPTH IN	R TUBING N WELL (feet): TE COLLECTE	D: Y	N	TUBING MATERI	AL CODE	:	20//		FIELD-FILT Filtration E	ERED: quipmer	Y That Type:	v 1	FILTER	R SIZE:
	PLE CONTAIN		- 12		SAMP	LE PRESE	ERVATION		INTEN ANAL' AND/ METH	YSIS OR	EQ	AMPLIN UIPME CODE	NT	AMPLE PUMP FLOW RATE (ml/min)
SAMPLE CODE	# CONTAINER S	MATERIA L CODE	VOLUME	US	RVATIVE ED	ADDED I	N FIELD L)	FINAL pH			K	-		
		CG	40 ml	HC		-			8260		5			
		CG	40 ml	НС	L				601		-	_		

MATERIAL CODES: AG = Amber Glass;

SAMPLING EQUIPMENT CODES:

CG = Clear Glass;

PP = Polypropylene;

PE = Polyethylene;

APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Elect RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain);

S = Silicone; T = Teflon; O = Other (Specify)

ESP = Electric Submersible Pump; avity Drain); O = Other (Specify)

	MW-	40			SAMPI	LE ID:					DATE	61	12/1	>
	N. Carlotte A. All. Sections	A Marian										1	1	
					PU	RGING		D) (A)		O DEDTI		Lo	UDOE DUIL	10 TVDE
ELL AMETE	R (inches): 2	Total V	Vell Depth (fee	35		DEPTH:	REEN INTE	35 fe	et TOW	C DEPTH ATER (fee	t): 26 .	23 0	URGE PUN R BAILER:	1/
ELL VO	LUME PURGE	: 1 WELL V	OLUME = (T	OTAL WE	LL DEPTH fee		DEPTH TO	WATER feet	X WEL	L CAPAC	TY gallons		-	gallons
	MOLLINAT	CUMUL.					COND	T			TURB	Г	l	T
TIME	VOLUME PURGED	VOLUME PURGED	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Λ	DO (mg/L)	Δ	(NTU)	Δ	COLOR	ODO
65	(gallons)	(gallons)	7/4		5,9		70	_	0.7	_	6.7	-	CI	1
4/			6.4		201		18	+	0.0		00/			1
												$\vdash$		<b>†</b>
ELL CA	PACITY (Gallo				rende rende									
		ins Per Foot):	0.75" = 0.02	2; 1"=0	0.04; 1.2	5" = 0.06;	2" = 0.16;	<b>3"</b> = 0.3	37; 4" = 0	65; 5"	= 1.02;	6" = 1.	.47; 12"	= 5.88
		ens Per Foot):	0.75" = 0.02	2; 1" = 0	0.04; 1.2	5" = 0.06;	2" = 0.16;	<b>3"</b> = 0.3	37; <b>4"</b> = 0.	65; 5"	= 1.02;	8" = 1.	.47; 12"	= 5.88
_		ns Per Foot):	<b>0.75</b> " = 0.02	2; 1"=0	272107-01-0			<b>3"</b> = 0.3	37; <b>4</b> " = 0.	65; 5"	= 1.02;	6" = 1.	.47; 12"	= 5.88
AMPLE	D BY (PRINT)	ons Per Foot):	0.75" = 0.03		SA		DATA	<b>3"</b> = 0.3		65; 5"	= 1.02;		A7; 12°	
		W	7	SAMPL	SAI ER(S) SIG	MPLING	DATA	<b>3"</b> = 0.3	SAMPLI	IG DATE:	5	SAM	PLING TIME	E:
JMP OF	D BY (PRINT)	W	0.75" = 0.00	SAMPL	SAI ER(S) SIG	MPLINC NATURE(S)	DATA	3" = 0.3	SAMPLIN	IG DATE:	5 Y A	SAM	PLING TIME	
UMP OF	DBY (PRINT)	Vove	7	SAMPL	SAI ER(S) SIG	MPLINC NATURE(S)	DATA	3" = 0.3	SAMPLIN	IG DATE:	5 Y A	SAM	PLING TIME	E:
UMP OF	D BY (PRINT)  O Mod R TUBING N WELL (feet):	Vove	1620	SAMPL	SAI ER(S) SIG	MPLINC NATURE(S)	DATA	3" = 0.3	SAMPLII PIELD-FI Filtration	IG DATE:	Y A	SAM	PLING TIME	R SIZE:
UMP OF EPTH IN UPLICA	D BY (PRINT)  O Mod R TUBING N WELL (feet):	Voce	ohan D	SAMPL	SAI ER(S) SIG	MPLINC NATURE(S)	DATA	3" = 0.3	SAMPLII PIELD-FI Filtration	NG DATE: LTERED: Equipmen	Y At Type:	SAMP	PLING TIME FILTER	E: R SIZE: SAMPLE PUMP FLOW
UMP OF EPTH IN	D BY (PRINT)  O Mode  R TUBING  N WELL (feet): TE COLLECTE	Voce	ohan D	SAMPL	SAI ER(S) SIG	MPLINC NATURE(S)	DATA	3" = 0.3	SAMPLIF PIELD-FI Filtration	NG DATE:	Y At Type:	SAM	FILTER	SAMPLE PUMP FLOW RATE
UMP OF EPTH IN UPLICA	D BY (PRINT)  O MONO R TUBING N WELL (feet): TE COLLECTE  PLE CONTAIN	Voce	CATION	SAMPL TUBINO MATER	SAI ER(S) SIG	MPLINC NATURE(S) : LE PRESER	E DATA  RVATION	FINAL	SAMPLIF PIELD-FI Filtration	NG DATE: LTERED: Equipmen NDED LYSIS	Y At Type:	SAMP	FILTER	SAMPLE PUMP FLOW RATE
UMP OF EPTH IN UPLICA SAM	D BY (PRINT)  R TUBING N WELL (feet): TE COLLECTE	D: Y	ohan D	SAMPL TUBING MATER  PRESE	SAN ER(S) SIG SAMP SAMP	MPLINC NATURE(S)	E DATA  RVATION  VOL FIELD	FINAL	SAMPLII PIELD-FI Filtration	NDED LYSIS DIOR	Y At Type:	SAMP	FILTER	E: SAMPLE PUMP FLOW RATE (ml/min)
UMP OF EPTH IN UPLICA SAM	D BY (PRINT)  O MOS  R TUBING  N WELL (feet):  TE COLLECTE  PLE CONTAIN  #  CONTAINER	D: Y ER SPECIFIC	CATION	SAMPL TUBINO MATER	SAN ER(S) SIG SAMP SAMP	MPLINC NATURE(S) : LE PRESER TOTAL ADDED IN	E DATA  RVATION  VOL FIELD	FINAL	PIELD-FI Filtration	NG DATE:  LTERED: Equipmen  NDED LYSIS D/OR THOD	Y At Type:	SAMP	FILTER	SAMPLE PUMP FLOW RATE (ml/min)
JMP OF EPTH IN UPLICA SAM	D BY (PRINT)  O MOS  R TUBING  N WELL (feet):  TE COLLECTE  PLE CONTAIN  #  CONTAINER	D: Y  ER SPECIFIC  MATERIA L CODE	CATION	SAMPL TUBING MATER  PRESE	SAN ER(S) SIGN SAMP SAMP	MPLINC NATURE(S) : LE PRESER ADCED IN (m)	E DATA  RVATION  VOL FIELD	FINAL	SAMPLII PIELD-FI Filtration	NG DATE:  LTERED: Equipmen  NDED LYSIS D/OR THOD	Y At Type:	SAMP	FILTER	E: SAMPLE PUMP FLOW RATE (ml/min)
UMP OF EPTH IN UPLICA SAM	D BY (PRINT)  O MOS  R TUBING  N WELL (feet):  TE COLLECTE  PLE CONTAIN  #  CONTAINER	ER SPECIFIC  MATERIA L CODE  CG	CATION VOLUME	TUBING MATER  PRESE U	SAN ER(S) SIGN SAMP SAMP	MPLINC NATURE(S) : LE PRESER TOTAL ADDED IN (m)	E DATA  RVATION  VOL FIELD	FINAL pH	PIELD-FI Filtration	NG DATE:  LTERED: Equipmen  NDED LYSIS D/OR THOD	Y At Type:	SAMP	FILTER	E: SAMPLE PUMP FLOW RATE (ml/min)
JMP OF EPTH IN UPLICA SAM	D BY (PRINT)  O MOS  R TUBING  N WELL (feet):  TE COLLECTE  PLE CONTAIN  #  CONTAINER	ER SPECIFIC  MATERIA L CODE  CG	CATION VOLUME	TUBING MATER  PRESE U	SAN ER(S) SIGN SAMP SAMP	MPLINC NATURE(S) : LE PRESER TOTAL ADDED IN (m)	E DATA  RVATION  VOL FIELD	FINAL pH	PIELD-FI Filtration	NG DATE:  LTERED: Equipmen  NDED LYSIS D/OR THOD	Y At Type:	SAMP	FILTER	SAMPLE PUMP FLOW RATE (ml/min)
UMP OF EPTH IN UPLICA SAM	D BY (PRINT)  O MOS  R TUBING  N WELL (feet):  TE COLLECTE  PLE CONTAIN  #  CONTAINER	ER SPECIFIC  MATERIA L CODE  CG	CATION VOLUME	TUBING MATER  PRESE U	SAN ER(S) SIGN SAMP SAMP	MPLINC NATURE(S) : LE PRESER TOTAL ADDED IN (m)	E DATA  RVATION  VOL FIELD	FINAL pH	PIELD-FI Filtration	NG DATE:  LTERED: Equipmen  NDED LYSIS D/OR THOD	Y At Type:	SAMP	FILTER	SAMPLE PUMP FLOW RATE (ml/min)
SAM  AMPLE  CODE	D BY (PRINT)  O MODE  R TUBING  N WELL (feet):  TE COLLECTE  PLE CONTAIN  #  CONTAINER  S	ER SPECIFIC  MATERIA L CODE  CG	CATION VOLUME	TUBING MATER  PRESE U	SAN ER(S) SIGN SAMP SAMP	MPLINC NATURE(S) : LE PRESER TOTAL ADDED IN (m)	E DATA  RVATION  VOL FIELD	FINAL pH	PIELD-FI Filtration	NG DATE:  LTERED: Equipmen  NDED LYSIS D/OR THOD	Y At Type:	SAMP	FILTER	SAMPLE PUMP FLOW RATE (ml/min)
JMP OF EPTH IN UPLICA SAM	D BY (PRINT)  O MODE  R TUBING  N WELL (feet):  TE COLLECTE  PLE CONTAIN  #  CONTAINER  S	ER SPECIFIC  MATERIA L CODE  CG	CATION VOLUME	TUBING MATER  PRESE U	SAN ER(S) SIGN SAMP SAMP	MPLINC NATURE(S) : LE PRESER TOTAL ADDED IN (m)	E DATA  RVATION  VOL FIELD	FINAL pH	PIELD-FI Filtration	NG DATE:  LTERED: Equipmen  NDED LYSIS D/OR THOD	Y At Type:	SAMP	FILTER	SAMPLE PUMP FLOW RATE (ml/min)

SITE Cloud's Chevron / University Mart / Handy F	Pantry	SITE LOCATION:	Columbia, South Carolina	
WELL NO: MW-43	SAMPLE ID:			DATE: 5-U8-15

#### **PURGING DATA**

							אואטנ							
WELL DIAMETER	R (inches):	Total W	ell Depth (fe			DEPTH:	CREEN INTER	10 fee	STATIC et TO WAT	ER (fee	et) 24,60	PL	JRGE PUM R BAILER:	
WELL VO	LUME PURGE	: 1 WELL VO	DLUME = (T = (	OTAL W		- STAT	IC DEPTH TO	WATER) feet)	X WELL	CAPAC	ITY gallons	/foot	=	gallon
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	٨	TURB IDITY (NTU)	Δ	COLOR	ODO
7:30			20.1	_	6.6	-	198	-	0.95	-	264	_	CL	NO
				$\vdash$		-								
								-						
								+		-				-
								-		+-	-			-
				+		1								

DEPTH IN	TUBING TWELL (feet): TE COLLECTE	_	- N	MATERIAL CODE:	_		FIELD-FILTERED: Filtration Equipment		LTER SIZE:
	PLE CONTAIN		CATION	SAMPI	LE PRESERVATION	1	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
		CG	40 ml	HCL			8260B	<u>B</u>	
		CG	40 ml	HCL			8011	13	
REMARK		G = Amber G	ilass: CG =	Clear Glass: PE	= Polyethylene;	PP = Polypro	pylene; S = Silicone;	T = Teflon; O =	Other (Specif

SITE NAME: Cloud's Chevron / University Mart / Handy I	Pantry	SITE LOCATION:	Columbia, South Carolina	
WELL NO: MW - 44	SAMPLE ID:			5-28-15

**PURGING DATA** WELL SCREEN INTERVAL
DEPTH: 16 feet to 31 feet
- STATIC DEPTH TO WATER) PURGE PUMP TYPE STATIC DEPTH Total Well Depth (feet): WELL 31 TO WATER (feet):22.7 OR BAILER: DIAMETER (inches): WELL CAPACITY WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH feet) X gallons/foot = gallons = ( feet -CUMUL. TURB COND. VOLUME VOLUME TEMP. DO ODOR COLOR Δ IDITY Δ TIME Δ PURGED PURGED (su) (µS) (mg/L) (°C) (NTU) (gallons) (gallons) 13 CL Yes 6.8 747 0.87 20.2 7:20 WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

	o Tive
DATE: SAMPLIN	
-15 72	
	FILTER SIZE:
uipment Type:	
SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
в 13	
13.	
Silicone; T = Teflon; O	= Other (Speci
,	Silicone; T = Teflon; O = Electric Submersible Pur Drain); O = Other (Spec

CAMPI INC DATA

SITE NAME: Cloud's Chevron / University Mart / Handy	Pantry	SITE LOCATION:	Columbia, South Carolina	
WELL NO: MW-45	SAMPLE ID:			DATE: 5-28-15

#### **PURGING DATA**

					10	101110	DAIA							
WELL DIAMETE	R (inches):		/ell Depth (fe	9	0	DEPTH:	CREEN INTER	3 0 fee	STATIC TO WAT	ER (fee	et): 21,7		JRGE PUM R BAILER:	
WELL VO	LUME PURGE	: 1 WELL V	DLUME = (T = (	OTALW	ELL DEPTH fee	- STAT	IC DEPTH TO	WATER) feet)	X WELL	CAPAC	ITY gallons	s/foot	=	gallon
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	۸	COLOR	ODO
7:10			20.0	_	6.8	_	205	-	0.92		38	-	CL	yes
										-				-
				+				+		+				
											-			-

SAMPLING TIME: SAMPLING DATE: SAMPLER(S) SIGNATURE(S): SAMPLED BY (PRINT) 15-28-15 Kyan McCormac FILTER SIZE: FIELD-FILTERED: PUMP OR TUBING DEPTH IN WELL (feet): TUBING / Filtration Equipment Type: DUPLICATE COLLECTED: (N) SAMPLE INTENDED SAMPLING PUMP ANALYSIS EQUIPMENT **FLOW** SAMPLE PRESERVATION SAMPLE CONTAINER SPECIFICATION AND/OR CODE RATE METHOD (ml/min) TOTAL VOL FINAL PRESERVATIVE SAMPLE MATERIA ADDED IN FIELD VOLUME CONTAINER pH LCODE USED ID CODE (mL) S 3 ---8260B HCL CG 40 ml 8011 HCL 40 ml CG

SAMPLING DATA

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

SITE NAME: Cloud's Chevron / University Mart / Handy F	antry	SITE LOCATION:	Columbia, South Carolina	
WELL NO: MW-46	SAMPLE ID:			DATE: 5-28-15

PURGING DATA WELL SCREEN INTERVAL
DEPTH: 20 feet to 35 feet
- STATIC DEPTH TO WATER) PURGE PUMP TYPE STATIC DEPTH Total Well Depth (feet): WELL 35 TO WATER (feet): 24.17 OR BAILER: DIAMETER (inches): WELL CAPACITY WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH gallons/foot = gallons feet) X feet -CUMUL. TURB COND VOLUME VOLUME TEMP DO COLOR **ODOR** Δ ٨ Δ IDITY TIME Λ **PURGED** (su) (µS) (mg/L) **PURGED** (°C) (NTU) (gallons) (gallons) NO 7:40 20.0 6.7 210 0,96 15 WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA SAMPLING TIME: SAMPLER(S) SIGNATURE(S): SAMPLING DATE: SAMPLED BY (PRINT) 5-28-15 7:40 armorle mcs Kyan al prm FILTER SIZE: FIELD-FILTERED: (N) TUBING \ PUMP OR TUBING Filtration Equipment Type MATERIAL CODE: DEPTH IN WELL (feet): DUPLICATE COLLECTED: /N SAMPLE INTENDED SAMPLING PUMP ANALYSIS **EQUIPMENT** FLOW SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION AND/OR CODE RATE METHOD (ml/min) TOTAL VOL FINAL PRESERVATIVE MATERIA SAMPLE ADDED IN FIELD VOLUME CONTAINER pH LCODE USED ID CODE (mL) S 8260B HCL CG 40 ml 12 8011 HCL 40 ml CG REMARKS: O = Other (Specify) T = Teflon: CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone: MATERIAL CODES: AG = Amber Glass; ESP = Electric Submersible Pump; BP = Bladder Pump; B = Bailer: APP = After Peristaltic Pump; SAMPLING EQUIPMENT CODES: SM = Straw Method (Tubing Gravity Drain); O = Other (Specify) RFPP = Reverse Flow Peristaltic Pump;

ELL NO:	MW	-47			SAMPL	LE ID:					DATE:			
					DII	DOING	DATA							
ELL		Total W	ell Depth (fee	t): 0 c		WELL S	CREEN INTE	RVAL		DEPTH		Pl	JRGE PUM	PTYPE
AMETER	R (inches):			25		DEPTH:	20 feet to	35 feet	TOWA	TER (fee		O	R BAILER:	
ELL VO	LUME PURGE:	1 WELL VO	DLUME = (TC = (	OTAL WEL	L DEPTH fee	- STATI	C DEPTH TO	feet)	X WELL	CAPACI	gallons	foot .	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (galions)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)		DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
								+						
										+				
				-		-		+		+				_
	APACITY (Gallo	ns Per Foot):	0.75" = 0.03		SA		G DATA		4" = 0.0				.47; 12" =	
AMPLE	D BY (PRINT)			SAMITL	ER(O) SIG	NATORE(	<b>5</b> ).							
EPTH IN	R TUBING N WELL (feet): TE COLLECTE	D: Y	N	MATER	IAL CODE	2			FIELD-FIL Filtration			l	FILTER	R SIZE:
	IPLE CONTAIN		CATION		SAMP	PLE PRESI	ERVATION		ANAI	NDED LYSIS D/OR HOD	EQ	MPLII UIPMI CODE	NG ENT	PUMP FLOW RATE (ml/min
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME	U	RVATIVE SED	ADDED	L VOL IN FIELD IL)	FINAL						
		CG	40 ml	Н		-	_		_	60B	-	_		
_		CG	40 ml	Н	CL	-	-		801					

SAMPLING EQUIPMENT CODES:

ESP = Electric Submersible Pump; ravity Drain); O = Other (Specify)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify) APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain);

SITE Cloud's Chevron / University Mart / Handy I	Pantry	SITE LOCATION:	Columbia, South Carolina	
WELL NO: MW-48	SAMPLE ID:			DATE: 5-29-15

**PURGING DATA** WELL SCREEN INTERVAL DEPTH: 15 feet to 30 feet STATIC DEPTH PURGE PUMP TYPE WELL Total Well Depth (feet): 30 TO WATER (feet):/ 9,63 OR BAILER: DIAMETER (inches): WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY gallons/foot = gallons feet) X feet -CUMUL. TURB COND. VOLUME VOLUME TEMP. DO ODOR COLOR Δ Δ Δ IDITY Δ (°C) (mg/L) **PURGED PURGED** (su) (µS) (NTU) (gallons) (gallons) 173 .99 CC NO 11:00 7.2 21.0 WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

				SAI	MPLING DAT	Α			
17	BY (PRINT)		b	SAMPLER(S) SIG	NATURE(S):	10	SAMPLING DATE:	SAMPLING	_
	WELL (feet):	progac		TUBING MATERIAL CODE		,,,	FIELD-FILTERED: Filtration Equipment	Y N FI	LTER SIZE:
	PLE CONTAIN		CATION	SAMP	LE PRESERVATION	4	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE IN CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VCL ADDED IN FIELD (mL)	FINAL pH			
		CG	40 ml	HCL			8260B	13	
		CG	40 ml	HCL			8011	13	
REMARK	S:								
	L CODES: A	G = Amber ( T CODES:	APP = Afte	Clear Glass; PE r Peristaltic Pump; verse Flow Peristaltic	B = Bailer; BI	PP = Polypro P = Bladder I aw Method (		T = Teflon; O = ic Submersible Pump O = Other (Specify	

ME:	loud's Chev		ersity iviait	папиу	raility	LC	CATION:	Joiumbia,	South Ca	ai Oiii ia	DATE			
ELL NO:	MW-	49			SAMP	LE ID:					DATE			
					PU	RGING	DATA							
ELL	R (inches):	Total V	Vell Depth (fee	30		WELL SO	SEEN INTE	RVAL 20 feet	STATIC I		D:		RGE PUM R BAILER:	PTYPE
ELL VOL	UME PURGE:	1 WELL V	OLUME = (TC			- STATI	DEPTH TO	WATER) feet)	X WELL C			/foot	=	gallons
		CUMUL.	Γ	Т			COND	ТТ	DO.		TURB	TURB		
IME	VOLUME PURGED (gallons)	VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	۸	(NTU)	Δ	COLOR	ODOR
								+						
			-	-				1		_		-		
$\overline{}$														
ELL CA	PACITY (Gallo	ns Per Foot):	<b>0.75</b> " = 0.02	; 1" = 0.	04; 1.2	:5" = 0.06;	<b>2" =</b> 0.16;	<b>3" =</b> 0.37;	<b>4</b> ¹⁹ = 0.65	; 5" =	= 1.02;	6" = 1.	47; <b>12"</b> =	5.88
							G DATA		SAMPLING	DATE		CAME	LING TIME	
AMPLED	BY (PRINT)			SAMPLE	R(S) SIG	NATURE(S	5):		SAMPLING	LATE.		SAWI	CINO TIME	
EPTH IN	TUBING WELL (feet):			TUBING MATERI	AL CODE				FIELD-FILT Filtration Eq			1	FILTER	R SIZE:
	PLE CONTAIN		CATION		SAME	PLE PRESE	RVATION		INTEND ANALY AND/ METH	'SIS DR	EQ	AMPLIN BUIPME CODE	IG NT	PUMP FLOW RATE (ml/mln)
AMPLE	# CONTAINER S	MATERIA L CODE	VOLUME	1,511,511,511,511,511,511	RVATIVE SED	ADDED I	NFELD	FINAL pH						
		CG	40 ml	НС		-			8260	_	-		+	
		CG	40 ml	НС	L				8011					
						+						_		
						_								

SAMPLING EQUIPMENT CODES:

APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

ELL NO:	MW-	50			SAMP		CATION:				DATE:					
	1															
					PU	IRGING		nui Oriansi u				T =:		D T)/DE		
ELL	R (inches):	Total W	ell Depth (fee	31	2	DEPTH:	S feet to	30 feet	STATIC TO WAT				IRGE PUM R BAILER:	PTYPE		
ELL VO	LUME PURGE:	1 WELL VO	= (TC	TALWE	LL DEPTH fee	- STATI	STATIC DEPTH TO		C DEPTH TO WATER fee	(WATER) feet)	X WELL				gallons	
ГІМЕ	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	٨	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF		
					_											
										-						
ELL CA	APACITY (Galio	ns Per Foot):	0.75" = 0.02		SA	MPLIN	G DATA									
AMPLE	D BY (PRINT)			SAMP	LER(S) SIG	SNATURE(S	S):		SAMPLING	3 DATE:		SAME	PLING TIME			
EPTH IN	R TUBING N WELL (feet): TE COLLECTE	D: Y	N	TUBIN MATE	G RIAL CODE	E			FIELD-FILT Filtration E				FILTER	R SIZE:		
	PLE CONTAIN		CATION		SAMI	PLE PRESE	RVATION		INTEN ANAL' AND METH	YSIS	EQ	MPLIN UIPME CODE	NG NT	PUMP FLOW RATE (ml/min		
SAMPLE D CODE	CONTAINER S	MATERIA L CODE	VOLUME		ERVATIVE USED	ADDED I	N FIELD	FINAL pH								
		CG	40 ml		CL	-			826		-		-			
		CG	40 ml	Н	ICL	-			801							

SAMPLING EQUIPMENT CODES:

ESP = Electric Submersible Pump; avity Drain); O = Other (Specify)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify) APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electr RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain);

SITE NAME: Cloud's Chevron / University Mart / Handy F	Pantry	SITE LOCATION:	Columbia, South Carolina		
WELL NO: MW-51	SAMPLE ID:			DATE:	5-29-15

PURGING DATA TO WATER (feet): 23,72 WELL SCREEN INTERVAL DEPTH: 20 feet to 35 feet PURGE PUMP TYPE Total Well Depth (feet): WELL 35 OR BAILER: DIAMETER (inches): WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) WELL CAPACITY gallons/foot = gallons feet feet) CUMUL. TURB COND. DO VOLUME VOLUME TEMP. COLOR **ODOR** Δ Δ IDITY Δ TIME Δ (mg/L) **PURGED PURGED** (°C) (su) (µS) (NTU) (gallons) (gallons) Yes 13 0.99 8:00 21.6 7.0 168 WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

#### SAMPLING DATA SAMPLING DATE: SAMPLING TIME: SAMPLER(S) SIGNATURE(S) SAMPLED, BY (PRINT) 5-29-15 8100 706 Lamor FILTER SIZE: FIELD-FILTERED: Y TUBING () PUMP OR TUBING Filtration Equipment Type: MATERIAL CODE DEPTH IN WELL (feet): (N) DUPLICATE COLLECTED: SAMPLE INTENDED SAMPLING PUMP ANALYSIS EQUIPMENT FLOW SAMPLE PRESERVATION SAMPLE CONTAINER SPECIFICATION AND/OR RATE CODE METHOD (ml/mln) TOTAL VOL PRESERVATIVE FINAL MATERIA SAMPLE ADDED IN FIELD CONTAINER VOLUME pH USED ID CODE LCODE (mL)S 8260B 40 ml HCL CG 8011 HCL 40 ml CG REMARKS: T = Teflon; O = Other (Specify) S = Silicone; PP = Polypropylene; MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; BP = Bladder Pump; ESP = Electric Submersible Pump; B = Bailer; APP = After Peristaltic Pump; SAMPLING EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

AME:	· Mw-	50			SAMPL	E ID:					DATE:	5	29-15	
	11100-	<i>-</i>			- DII	DOING	DATA	1	D, 75':	=				
ELL		Total W	ell Depth (fee	35		WELL SCE	REEN INTE		STATIC I	DEPTH	ary	PL	JRGE PUM R BAILER:	PTYPE
ELL VO	R (inches): DLUME PURGE	: 1 WELL VO	DLUME = (TC	TAL WEL	L DEPTH fee	- STATIC	DEPTH TO	WATER) feet)	X WELL C					gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
					) (									
				10			)							
			_	4 -										
ELL C	APACITY (Gallo	ons Per Foot):	0.75" = 0.02	t; 1" = (				3" = 0.37;	<b>4</b> ¹¹ = 0.65	; 5" =	1.02;	6" = 1.	.47; 12" :	5.88
Kua	ED BY (PRINT)  R TUBING IN WELL (feet):	D Const	k	TUBING	ER(S) SIG	1		1ack	SAMPLING 5 - 2° FIELD-FILTI Filtration Eq	7 - ) ERED:	Y (N		FILTER	
UPLICA	ATE COLLECTION		CATION			PLE PRESER	RVATION		INTEND ANALY AND/O	SIS	EQI	MPLI	NG ENT	SAMPLE PUMP FLOW
SAMPLE	#	MATERIA			RVATIVE	IOTAL V		FINAL	METH		-	CODE		RATE (ml/min
CODE		L CODE	VOLUME 40 ml		ISED CL	(mL)		pH 	8260	В			+	
	+	CG	40 ml		CL				8011					

NO+

SAMPLING EQUIPMENT CODES:

MATERIAL CODES: AG = Amber Glass;

REMARKS:

PE = Polyethylene;

B = Bailer;

CG = Clear Glass;

APP = After Peristaltic Pump; B = Ba RFPP = Reverse Flow Peristaltic Pump;

PP = Polypropylene;

iller; BP = Bladder Pump; ESP = Elect SM = Straw Method (Tubing Gravity Drain);

S = Silicone;

ESP = Electric Submersible Pump; avity Drain): O = Other (Specify)

T = Tellon; O = Other (Specify)

Cloud's Chevron / University Mart / HAME:	andy Pantry	SITE LOCATION:	Columbia, South Carolina	
WELL NO: MW-53	SAMPLE ID:			DATE: 5-28-15

**PURGING DATA** PURGE PUMP TYPE WELL SCREEN INTERVAL
DEPTH: 5 feet to 20 feet STATIC DEPTH Total Well Depth (feet): WELL 20 TO WATER (feet): 0.5 OR BAILER: P DIAMETER (inches): - STATIC DEPTH TO WATER) WELL CAPACITY WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH gallons/foot = feet) X gallons feet -CUMUL. TURB COND DO VOLUME VOLUME TEMP. COLOR ODOR IDITY Δ Δ Δ Δ (mg/L) TIME (uS) **PURGED** PURGED (°C) (su) (NTU) (gallons) (gallons) 59.0 CL 242 NO 2 3:30 21.9 WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

#### SAMPLING DATA SAMPLING TIME: SAMPLING DATE: SAMPLER(S) SIGNATURE(S): SAMPLED BY (PRINT) 5-28-15 30 Hyan Me promote FIELD-FILTERED: FILTER SIZE: ĺΝ TUBING PUMP OR TUBING Filtration Equipment Type: MATERIAL CODE: DEPTH IN WELL (feet): ( N) DUPLICATE COLLECTED: SAMPLE INTENDED SAMPLING PUMP ANALYSIS EQUIPMENT FLOW SAMPLE PRESERVATION SAMPLE CONTAINER SPECIFICATION AND/OR CODE RATE METHOD (ml/min) TOTAL VOL FINAL PRESERVATIVE MATERIA SAMPLE ADDED IN FIELD VOLUME CONTAINER pH USED ID CODE LCODE (mL) S 8260B HCL 40 ml CG 8011 HCL 40 ml CG REMARKS: O = Other (Specify) T = Teflon; S = Silicone; PP = Polypropylene; PE = Polyethylene; MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; ESP = Electric Submersible Pump; B = Bailer; BP = Bladder Pump; APP = After Peristaltic Pump; SAMPLING EQUIPMENT CODES: O = Other (Specify) RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain);

SITE NAME: Cloud's Chevron / University Mart / Handy F	Pantry	SITE Columbia, South Carolina	0.175
WELL NO: MW-54	SAMPLE ID:		DATE: 5-28-15

WELL DIAMETER	R (inches):		ell Depth (fee	A		DEPTH:	GREEN INTER	20 fee	STATIC I	ER (fee	et): 11.2	7 PL	JRGE PUM R BAILER:	BPE
WELL VOL	UME PURGE	: 1 WELL VO	= (TC	TALWI	ELL DEPTH fe	et -	IC DEPTH TO	WATER) feet)	X WELL C	APAC	gallons	/foot	=	gallon
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
3,00		(ganoris)	21.2	=	7.4	-	321	-	0.89	-	26		CL	WO
										-	-	$\vdash$		-
						-				-	-	-		$\vdash$
										_				
							2" = 0.16;				4.00	011 - 1	17. 400	- E 00

SAMOLED	BY (PRINT)			SAMPLER(S) SIGN	MPLING DAT		SAMPLING DATE:	SAMPLING '	
AMPLED	DI (FRINI)	0 0	· Jon	D		uncle	5-28-15	3:00	
PUMP OR DEPTHIN	TUBING WELL (feet):	loano	<u>ca</u>	TUBING() MATERIAL CODE:			FIELD-FILTERED: Filtration Equipment		LTER SIZE:
	TE COLLECTE	D: Y	(N)		_				
SAMI	PLE CONTAIN	ER SPECIFIC	CATION	SAMP	LE PRESERVATION	ı	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	- 3	CG	40 ml	HCL			8260B	13	
		CG	40 ml	HCL			8011	3.	
REMARK	S:								
MATERIA	AL CODES: A	G = Amber C	Blass; CG	= Clear Glass; PE	= Polyethylene;	PP = Polypro			Other (Speci
	IG EQUIPMEN	T CODES:		r Peristaltic Pump; verse Flow Peristaltic		= Bladder F	Pump; ESP = Electr Tubing Gravity Drain);	ic Submersible Pump O = Other (Specify	

SITE Cloud's Chevron / University Mart	/ Handy Pantry	SITE Columbia, South C	
WELL NO: MW-55	SAMPLE ID:		DATE: 5-28-15

WELL VOI	R (inches):		/ell Depth (fe		ELL DEPTH	DEPTH:	GREEN INTER	H fee		ER (feel	t):	OF	RGE PUMP R BAILER:	ZFPf
WELL VOI	LOME PORGE		= (	01/41	fee			feet)	Х		gallons	/foot		gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
3:15	1.5	1,5	21.9	_	7.9	-	271	_	1.24	-	862	-	CNY	725
3:20	1.0	2.5	21.9	0	7.6	03	256	15	0.78	146	392	470	dily	785
3:25	1.0	3.5	21.7	0,2	7,2	0,4	217	39	0.88	114	346	40	all	yes,
3,30	1,0	4.5	21.7	0	71	01	2/8	1	0.99	11	90	247	oling	XXC
3:35	1.0	5.5	21.7	0	7.1	0	210	2	0.97	02	51,0	11.	sluy	YNS
3:00	1.0	65	21.8	01	7.2	0.1	213	3	0.98	,01	8.8	35.5	CM	YES
3:45	1.0	1.5	21.7	011	7.2	9	217	17	0,99	10/	816	1/1	cir	YE
_				-										
			1	1										
										_		-		-
						-		-		-		-		-

				SAI	MPLING DAT	ΓΑ			
SAMPLED	BY (PRINT)	elopa	rack	SAMPLER(S) SIGN	1-12	mark	SAMPLING DATE: 5-28-/	-	
DEPTH IN	TUBING WELL (feet):	12	` ~	MATERIAL CODE:	PE		FIELD-FILTERED: Filtration Equipment		LIER SIZE.
	LE CONTAIN		CATION	SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/mln)
SAMPLE ID CODE	# CONTAINER	MATERIA L CODE	VOLUME	PRESERVATIVE USED	ADDED IN FIELD (mL)	FINAL pH		CFPP	
		CG	40 ml	HCL	-		8260B	1	
		CG	40 ml	HCL			8011	1	
REMARKS		G = Amber C		= Clear Glass; PE	= Polyethylene;	PP = Polypro	opylene: \$ = Silicone	T = Teffon; O =	Other (Speci

SITE C	loud's Chev	ron / Unive	ersity Mart	/ Handy	Pantry		OCATION: C	olumbi	a, South Ca	arolina				
	MW-	56			SAMP	LE ID:					DATE	5-7	18-15	
					PU	RGING	DATA						0	
VELL	R (inches):		/ell Depth (fee	4		WELL S	CREEN INTER	VAL O fe	STATIC et TO WAT	DEPTH ER (fee	1.8.2	2 PL	JRGE PUMI R BAILER:	BTYPE
WELL VOI	UME PURGE	: 1 WELL VO	OLUME = (T	OTAL WE	L DEPTH fee	- STAT	IC DEPTH TO	WATER) feet	X WELL	CAPACI	TY gallons	/foot	-	gallons
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (µS)	Λ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOF
9100	_	_	22.1		7.0	-	315		0.91	_	16	_	ch	NG
								-		-	-	-		-

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

				SAI	MPLING DAT	Α			
hos	BY (PRINT)		- 4	SAMPLER(S) SIGN	NATURE(S):	b.	SAMPLING DATE: 5-28-15		0
PUMP OR	14 1	close	JUCIC	TUBING MATERIAL CODE			FIELD-FILTERED: Filtration Equipment		LTER SIZE:
	TE COLLECTE	D: Y	OM						
	PLE CONTAIN		CATION	SAMP	LE PRESERVATION	٧	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/mln)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		1	
	- 0	CG	40 ml	HCL			8260B	13	
		CG	40 ml	HCL			8011	13	
		_							
REMARK	S:								
MATERIA	AL CODES:	AG = Amber (	Glass; CG :	Clear Glass; PE	= Polyethylene;	PP = Polypro		, , , , , ,	Other (Specify)
	NG EQUIPMEN	T CODES:		r Peristaltic Pump; verse Flow Peristaltic		P = Bladder   aw Method (	Pump; ESP = Electric Tubing Gravity Drain);	<ul><li>O = Other (Specify</li></ul>	

TE C	oud's Chevr	on / Univer	rsity Mart /	Handy F	antry	SIT	E C	olumbia,	South Car	rolina				
ME:	MW-				SAMPLE		JATION.				DATE:			
					PUR	GING	DATA							
ELL		Total We	ell Depth (feet)	14	. 1	WELL SCI	REEN INTER	VAL feet	STATIC D		t):		JRGE PUM R BAILER:	P TYPE
ELL VOL	(inches): UME PURGE:	1 WELL VO	LUME = (TO			STATIC	DEPTH TO	WATER) feet)	X WELL CA			/foot	-	gallons
		CUMUL.	= (		1661			T T			TURB			
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	(mg/L)	Δ	IDITY (NTU)	Δ	COLOR	ODOR
				_										
				_										
												-		├-
												-		+
				-+				+						
	D BY (PRINT)	ns Per Foot):	<b>0.75</b> " = 0.02			1PLIN	S DATA		; 4" = 0.65				.47; 12"	
PLIMP OF	R TUBING N WELL (feet):			TUBING	IAL CODE:				FIELD-FILT Filtration Eq	ERED: uipmer	Y nt Type:	N	FILTE	R SIZE:
	TE COLLECTE	D: Y	N											SAMPLE
DEPTH I		IER SPECIFIC	CATION		SAMPL	E PRESE	RVATION		ANALY AND/O METH	SIS		AMPLI QUIPM CODI	NG ENT	PUMP FLOW RATE (ml/min
DUPLICA	PLE CONTAIN			pprof	RVATIVE	ADDED I	FIELD	FINAL pH						
SAMPLE	CONTAINER	MATERIA L CODF	VOLUME		SED	(mi	-		100000	0.23007				-
DUPLICA	4		40 ml	HC	SED	(m			8260		+		-	
SAMPLE	CONTAINER	LCODE		U	SED	(mi			8260 8011					

SAMPLING EQUIPMENT CODES:

APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

O = Other (Specify)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon;

SITE Cloud's Chev	ron / University Mart / Hand	dy Pantry	SITE Columbia,	South Carolina	
	V-58	SAMPLE II	D:	D	ATE: 5-29-15
		PURC	SING DATA		
WELL DIAMETER (inches):	Total Well Depth (feet):		/ELL SCREEN INTERVAL EPTH: feet to 6 feet	STATIC DEPTH TO WATER (feet): 6	PURGE PUMP TYPE OR BAILER:

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	IDITY (NTU)	Δ	COLOR	ODOF
1/15	(ganoring)	(gallotis)	20.7	_	6.9		250	1	0.79	-	28	_	CL	Yes
										-				
WELL CA	PACITY (Gallo	ons Per Foot):	0.75" = 0.0	02; 1":	= 0.04; 1.3	<b>25"</b> = 0.06;	<b>2</b> " = 0.16;	3" = 0.3	37; <b>4"</b> = 0.6	5; 5"	= 1.02;	6" = 1	.47; <b>12</b> ":	= 5.88
						MPLIN GNATURE(	G DATA		SAMPLING		_		PLING TIME	

					MPLING DA	IA	T	L CAMPI INC	TIME.
SAMPLED	BY (PRINT)			SAMPLER(S) SIGN		1	SAMPLING DATE:	SAMPLING	TIVIE.
()	0.0	26.00	mrk	"Horas	Mc Corn	nek.	5-29-15		
PUMP OR	TUBING	CLOV Y	Jack	TUBING	O. H. Carrell	A CONTRACTOR	The land the state of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land of the land	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LTER SIZE.
DEPTHIN	WELL (feet):			MATERIAL CODE			Filtration Equipment	Type;	
DUPLICAT	TE COLLECTE	D: Y	(N)						
SAME	PLE CONTAIN	ER SPECIFIC		SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	CONTAINER S	MATERIA I CODE	VOLUME	PRESERVATIVE USED	101AL VOL ADDED IN FIELD (mL)	FINAL pH		13	
		CG	40 ml	HCL		***	8260B	15	
		CG	40 ml	HCL			8011	13.	
REMARK	S:	G = Amber G	Blass; CG :	= Clear Glass; PE	· cijanijiani	PP = Polypro		T = Teflon; O =	Other (Spec

SITE Cloud's Chevron / Unive	rsity Mart / Handy Pantry	SITE Columbi	ia, South Carolina	
WELL NO: MW-59	SAMPLE II	0:	DAT	E: 5-28-15
	PURG	SING DATA		
	11 D 11 11 11 11 11 11 11 11 11 11 11 11	ICLL CODECN INTERVAL	STATIC DEDTH	PURCE PUMP TYPE

						KONTO	DATA							
WELL DIAMETER	R (inches):		ell Depth (fee		7	DEPTH:	CREEN INTER	7 fee	STATIC TO WAT	ER (fee	t): 6:4	6 OF	IRGE PUM R BAILER: ‡	P TYPE
WELL VO	LUME PURGE:	1 WELL VO	DLUME = (TO = (	OTAL W	ELL DEPTH fee	- STATI	C DEPTH TO	WATER) feet)	X WELL (	CAPACI	TY gallons	/foot	= "	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	٨	TURB IDITY (NTU)	Δ	COLOR	ODO
2.00		_	21.0	_	7.0	-	195	_	9.92	-	36	-	CL	Yes
_			_											
														-
_				_				+		-				-
			-	_				+-		$\vdash$		-		-

				SAI	MPLING DAI	A			
	BY (PRINT)	- 6	~	SAMPLER(S) SIGN		4	SAMPLING DATE: 5-28-15	SAMPLING 2100	TIME:
PUMP OR	TUBING WELL (feet):	ermack		TUBING MATERIAL CODE:			FIELD-FILTERED: Filtration Equipment	. / . /	LTER SIZE:
	TE COLLECTE	D: (Y)	N						
SAMI	PLE CONTAIN		CATION	SAMP	LE PRESERVATION	V	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
		CG	40 ml	HCL			8260B	13	
		CG	40 ml	HCL			8011	13	
REMARK	S:						•		
MATERIA	AL CODES: A	G = Amber C	Blass; CG	= Clear Glass; PE	= Polyethylene;	PP = Polypro	ppylene; S = Silicone;	T = Teflon; O =	Other (Specify)
	IG EQUIPMEN	T CODES:	APP = Afte	r Peristaltic Pump;		P = Bladder	Pump: ESP = Electr	ic Submersible Pump O = Other (Specify	

SITE NAME: Cloud's Chevron / University Mart / Handy F	Pantry	SITE LOCATION:	Columbia, South Carolina	
WELL NO: MW-60	SAMPLE ID:			DATE: 5-28-15

PURGING DATA PURGE PUMP TYPE WELL SCREEN INTERVAL DEPTH: 4 feet to 4 STATIC DEPTH Total Well Depth (feet): WELL OR BAILER: TO WATER (feet): DIAMETER (inches): - STATIC DEPTH TO WATER) WELL CAPACITY WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH gallons/foot = gallons feet) X feet -CUMUL TURB COND DO VOLUME TEMP VOLUME Hq ODOR COLOR Δ IDITY Δ Δ Δ TIME (µS) (mg/L) PURGED (su) PURGED (°C) (NTU) (gallons) (gallons) WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 SAMPLING DATA

#### SAMPLING TIME: SAMPLING DATE: SAMPLER(S) SIGNATURE(S): SAMPLED BY (PRINT) 5-28-15 PUMP OR TUBING Me FIELD-FILTERED: FILTER SIZE: TURING Filtration Equipment Type: MATERIAL CODE DEPTHIN WELL (feet): DUPLICATE COLLECTED: SAMPLE INTENDED PUMP SAMPLING **ANALYSIS** FLOW EQUIPMENT SAMPLE PRESERVATION SAMPLE CONTAINER SPECIFICATION AND/OR CODE RATE METHOD (ml/min) TOTAL VCL FINAL MATERIA PRESERVATIVE SAMPLE ADDED IN FIELD VOLUME CONTAINER USED pH I CODE ID CODE (mL) 8260B HCL CG 40 ml 8011 HCL CG 40 ml REMARKS: Not - oca eu O = Other (Specify) T = Teflon; PE = Polyethylene; PP = Polypropylene; S = Silicone; MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; ESP = Electric Submersible Pump; BP = Bladder Pump; B = Bailer; APP = After Peristaltic Pump; SAMPLING EQUIPMENT CODES: SM = Straw Method (Tubing Gravity Drain); O = Other (Specify) RFPP = Reverse Flow Peristaltic Pump;

ELL NO:	oud's Chevr				SAMPL		OCATION:			-	DATE	:		
0.00	, .,,				-	DOING	DATA							
ELL		Total W	ell Depth (feet	1):		MELLS	CREEN INTE	RVAL	STATIC	DEPTH			JRGE PUM	PTYPE
AMETER	(inches): UME PURGE:			ے.	LL DEPTH	- STAT	20 feet to	O WATER)	X WELL				R BAILER:	gallons
			= (		fee	t –		feet)	Х	_		T		ganons
ГІМЕ	VOLUME PURGED (gallons)	VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
							-	+		+				
												F		-
ELL 04				2 1"=	004 13							1		
JELL UA	PACITY (Gallo	ns Per Foot):	0.75" = 0.02	-,	0.04, 1.2	25" = 0.06	2" = 0.16;	<b>3"</b> = 0.37	'; 4" = 0.65	5; 5"	= 1.02;	6" = 1	.47: 12"	= 5.88
IELL GA	PACITY (Gallo	ns Per Foot):	0.75" = 0.02	-,					7; 4" = 0.65	5; 5"	= 1.02;	6" = 1	.47: 12"	= 5.88
	BY (PRINT)	ns Per Foot):	0.75" = 0.02			MPLIN	IG DAT		SAMPLING				PLING TIM	
SAMPLED PUMP OF DEPTH IN	BY (PRINT)  TUBING WELL (feet):			SAMP	SA LER(S) SIG	MPLIN	IG DAT			DATE	Y		IPLING TIM	
SAMPLED PUMP OF DEPTH IN	BY (PRINT)	D: Y	N	SAMP	SA LER(S) SIG IG RIAL CODE	MPLIN BNATURE	IG DAT		SAMPLING FIELD-FILT	ERED: quipmer DED YSIS OR	Y nt Type:	SAM	FILTE	E: R SIZE: SAMPLE PUMP FLOW RATE
SAMPLED PUMP OF DEPTH IN	D BY (PRINT) R TUBING N WELL (feet): TE COLLECTE	D: Y	N	SAMP TUBIN MATE	SA LER(S) SIG IG RIAL CODE	MPLIN ENATURE  E:  TOT. ADDED	NG DAT	FINAL pH	FIELD-FILT Filtration Ed INTEN ANAL' AND METH	ERED: quipmer DED YSIS OR HOD	Y nt Type:	SAM N AMPLI	FILTE	E:  R SIZE:  SAMPLE PUMP FLOW RATE (ml/min)
PUMP OF DEPTH IN DUPLICA SAM	D BY (PRINT)  R TUBING  WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER	D: Y ER SPECIFIO	N CATION  VOLUME 40 ml	SAMP TUBIN MATE	SAMI SERVATIVE USED	MPLIN ENATURE  E:  PLE PRES  TOT. ADDED  (	S):  ERVATION  AL VOL IN FIELD  mL)	FINAL pl1	FIELD-FILT Filtration Ed INTEN ANAL AND/ METH	G DATE  FERED: quipment  DED YSIS OR HOD	Y nt Type:	SAM N AMPLI	FILTE	E: R SIZE: SAMPLE PUMP FLOW
PUMP OF DEPTH IN DUPLICA SAM	D BY (PRINT)  R TUBING  WELL (feet): TE COLLECTE  PLE CONTAIN  # CONTAINER	D: Y  ER SPECIFIO  MATERIA L CODE	N CATION VOLUME	SAMP TUBIN MATE	SA  ILER(S) SIG  IG  RIAL CODE  SAMI	MPLIN ENATURE  E:  PLE PRES  TOT. ADDED  (	S):  ERVATION  ALVOL IN FIELD  mL)	FINAL pH	FIELD-FILT Filtration Ed INTEN ANAL' AND METH	G DATE  FERED: quipment  DED YSIS OR HOD	Y nt Type:	SAM N AMPLI	FILTE	E: R SIZE: SAMPLE PUMP FLOW RATE (ml/min)
AMPLETO TUMP OF SEPTH IN SUPLICA SAM	D BY (PRINT)  R TUBING WELL (feet): TE COLLECTE  PLE CONTAIN  CONTAINER S	D: Y  ER SPECIFIC  MATERIA L CODE  CG  CG	N CATION  VOLUME 40 ml	SAMP TUBIN MATE	SAMI SERVATIVE USED	MPLIN ENATURE  E:  PLE PRES  TOT. ADDED  (	S):  ERVATION  AL VOL IN FIELD  mL)	FINAL pl1	FIELD-FILT Filtration Ed INTEN ANAL AND/ METH	G DATE  FERED: quipment  DED YSIS OR HOD	Y nt Type:	SAM N AMPLI	FILTE	E: R SIZE: SAMPLE PUMP FLOW RATE (ml/min)



E CI	oud's Chev	ron / Unive	rsity Mart /	Handy Pantry	LOCATION:	Columbia,	South Carolina	I DATE:		
ELL NO:	MW-	62		SAMPL	LE ID:			DATE: C	5-28-15	
				PU	RGING DATA			22.21	OTP.	
ELL		Total We	ell Depth (feet)		WELL SCREEN IN	TERVAL	STATIC DEPTH	. 20 71	PURGE PUN	MP TYPE
******	(inches):			35	DEPTH: 20 feet	to 5 feet	TO WATER (fee		OR BAILER:	
ELL VOL	UME PURGE:	1 WELL VO	= (	fee fee	- STATIC DEPTH	feet)		gallons/fo	ot =	gallons
ГІМЕ	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ pH (su)	Δ COND (μS)	Δ	DO (mg/L) Δ	TURB IDITY (NTU)	Δ COLOR	ODOR
		ret		codu	es i	12	\$.			
	1		\							
_	APACITY (Gallo	ons Per Foot):	0.75" = 0.02		25" = 0.06; 2" = 0.1	ΓΑ	SAMPLING DATE		" = 1.47: 12" SAMPLING TIE	
SAIML CE	551 (11)			Kuren	McCorm	nek	5-28-15	- N	CDT	ER SIZE:
PUMP OF	R TUBING N WELL (feet):			TUBING MATERIAL COD			FIELD-FILTERED Filtration Equipme	Y N nt Type:	FILI	ER SIZE:
DUPLICA	TE COLLECT	ED: Y	N							SAMPLE
SAM	IPLE CONTAIL	NER SPECIFIC	CATION	SAM	PLE PRESERVATION	N	INTENDED ANALYSIS AND/OR METHOD	EQL	MPLING MPMENT CODE	PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	ADDED IN FIELD (mL)	FINAL pH	Topic Annual Con-			
	1	CG	40 ml	HCL			8260B			
		CG	40 ml	HCL			8011			

SAMPLING EQUIPMENT CODES:

ESP = Electric Submersible Pump; ravity Drain); O = Other (Specify)

APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Elect RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain);

Free product 1/8 in.
GROUNDWATER SAMPLING LOG.

ITE C	loud's Chev	ron / Unive	rsity Mart /	Handy	Pantry		OCATION:	Columbia	, South Ca	arolina				
	Mw-	63			SAMPL	E ID:					DATE	00	18-15	
	1.00										-0	2	4.04	BIV
		T	-II D II // II				CREENIN		STATIC	DEPTH	200		JRGE PUM	
ELL IAMETER	R (inches):		ell Depth (feet)	0	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	DEPTH:	20 feet	to 35 fee	t TO WAT	ER (fee	t):24.04	01	R BAILER:	
ELL VOL	LUME PURGE	; 1 WELL VC	= (	I AL WELL	feet		10 00	feet)			gallons	/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (μS)	. Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
100										-				_
				+		0	05					-		
				76	06	XV								
		1 per	/	/			_			-				-
		"	1					-						
_				<b>\</b>										
											_			-
								-		-		-	-	+
						-	-	_		+	$\vdash$	$\vdash$		
										-				
WELL CA	PACITY (Gall	ons Per Foot):	<b>0.75"</b> = 0.02	1" = 0	.04; 1.2	5" = 0.06;	2" = 0.1	6; <b>3"</b> = 0.3	7; 4" = 0.65	5; 5"	= 1.02;	6" = 1	.47; 12"	= 5.88
				CAMPLE	SA ER(S) SIG	MPLIN	IG DAT	7	SAMPLING	DATE	:		PLING TIM	E:
Rya	D BY (PRINT)	Corn	met	Ki	jan 7	nclo	vinol	K_	5-28-	100	-	10	'00°	D CIZE
PUMPION	R TUBING N WELL (feet):			TUBING	TAL CODE	PE			FIELD-FILT Filtration Ed				FILTE	R SIZE:
	TE COLLECT		N											SAMPLE
SAM	IPLE CONTAIL	NER SPECIFI	CATION		SAMP	LE PRES	ERVATION	1	ANAL' AND/ METH	YSIS OR		AMPLI QUIPMI CODE	NG ENT	PUMP FLOW RATE (ml/min
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME		RVATIVE SED	ADDED	AL VOL IN FIELD mL)	FINAL pH						
		CG	40 ml	НС		-	-		8260		+		-	
		CG	40 ml	Н	CL	-	-		801		_			
	+ -													
												_		

SAMPLING EQUIPMENT CODES:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass;

REMARKS:

APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Elec RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain);

PE = Polyethylene;

PP = Polypropylene;

O = Other (Specify)

S = Silicone;

ESP = Electric Submersible Pump;

SITE Cloud's	s Chevron / University Mart / Handy F	antry	SITE LOCATION: Columbia, South Carolina	
WELL NO:	1W-64	SAMPLE ID:		DATE:

#### **PURGING DATA** WELL SCREEN INTERVAL DEPTH: 20 feet to 3 5 feet - STATIC DEPTH TO WATER) WELL Total Well Depth (feet): STATIC DEPTH PURGE PUMP TYPE DIAMETER (inches): TO WATER (feet): OR BAILER: WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH WELL CAPACITY feet feet) X gallons/foot = gallons CUMUL. TURB VOLUME VOLUME TEMP. pH COND. DO TIME Δ ۸ Δ COLOR ODOR Δ IDITY **PURGED** PURGED (°C) (su) (µS) (mg/L) (gallons) (NTU) (gallons) WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLE	D BY (PRINT)			SAMPLER(S) SIG	NATURE(S):		SAMPLING DATE:	SAMPLING	TIME:
DEPTH IN	R TUBING I WELL (feet):			TUBING MATERIAL CODE	:		FIELD-FILTERED: Filtration Equipment		LTER SIZE:
DUPLICA	TE COLLECTE	D: Y	N				•		
SAM	PLE CONTAIN	ER SPECIFI	CATION	SAMP	LE PRESERVATION	ı	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml.)	FINAL pH			
		CG	40 ml	HCL			8260B		
		CG	40 ml	HCL			8011		
REMARK	Not		atedi						
	L CODES: A				= Polyethylene; F	P = Polyprop	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		Other (Specify
SAMPLIN	G EQUIPMENT	CODES:		Peristaltic Pump; erse Flow Peristaltic		= Bladder P w Method (T	ump; ESP = Electric ubing Gravity Drain);	Submersible Pump; O = Other (Specify)	

ABAND, GROUNDWATER SAMPLING LOG

SITE NAME: Cloud's Chevron / University Mart / Handy F	Pantry	SITE LOCATION: Columbia, South Carolina	
WELL NO: MW -6.5	SAMPLE ID:		DATE: 5-28-15

#### **PURGING DATA** Total Well Depth (feet): 35 WELL WELL SCREEN INTERVAL DEPTH: 10 feet to 35 feet STATIC DEPTH PURGE PUMP TYPE DIAMETER (inches): TO WATER (feet): OR BAILER: WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY feet feet) gallons/foot = gallons CUMUL. VOLUME VOLUME TURB TEMP. COND. pH DO TIME Δ PURGED Δ Δ IDITY COLOR ODOR PURGED (°C) (su) (µS) (mg/L) (gallons) (NTU) (gallons) WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

RI	D BY (PRINT)	clocm	ack	SAMPLER(S) SIG	NATURE(S):	ack	SAMPLING DATE: 5-28-15	SAMPLING	TIME:
DEPTH IN	R TUBING TWELL (feet): TE COLLECTE	D: Y	N	TUBING () MATERIAL CODE	:		FIELD-FILTERED: Filtration Equipment		ILTER SIZE:
	PLE CONTAIN			SAMP	LE PRESERVATION	v	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE D CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			( constant)
		CG	40 ml	HCL			8260B		
		CG	40 ml	HCL			8011		
REMARKS	S:								
MATERIA	L CODES: A	G = Amber G		Clear Glass; PE =	Polyethylene; P	P = Polyprop	ylene; S = Silicone;	T = Teflon; O =	Other (Specify

SITE NAME:	Cloud's Che	evron / Uni		t / Handy F		SIT	_		ia, South C	arolina				
WELL NO	· Mw	-66			SAMP		CATION:	-			DATE	:		
					PU	RGING	DATA							
	ER (inches):		Well Depth (fe	33		WELL SC	D feet to	35 fe	et TOWA	DEPTH TER (feet		91.6	URGE PUM R BAILER:	PTYPE
WELL VO	DLUME PURGI	E: 1 WELL	VOLUME = (	TOTAL WELL	DEPTH		DEPTH TO		X WELL	CAPACIT	gallons	s/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)		Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
										$\Box$				
WELL CA	APACITY (Gallo	ons Per Foot)	0.75" = 0.0	2; 1" = 0.04	; 1.25	33 = 0.06; 2	t" = 0.16;	3" = 0.37	7; <b>4"</b> = 0.65	; 5" =	1.02;	3" = 1.4	47; <b>12"</b> =	5.88
					SAN	MPLING	DATA							
SAMPLE	D BY (PRINT)			SAMPLER		IATURE(S):			SAMPLING	DATE:		SAMP	LING TIME:	
DEPTH IN	R TUBING I WELL (feet): TE COLLECTE	D: Y	N	TUBING MATERIAL	CODE:				FIELD-FILTI Filtration Eq				FILTER	SIZE:
SAM	PLE CONTAIN	ER SPECIFIC	CATION		SAMPL	E PRESERV	ATION		INTEND ANALY AND/O METHO	SIS R	EQU	MPLING IIPMEN CODE	G F	MPLE PUMP LOW RATE nl/min)
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVA USED		TOTAL VO ADDED IN FI (mL)		FINAL pH						
		CG CG	40 ml	HCL					8260I 8011	В				
		00	40 1111	HOL					8011					
REMARK	s: NO+	Loca	nhd											
MATERIA	L CODES: A	G = Amber G	lass; CG =	Clear Glass;	PE =	Polyethylene	; PP =	Polypropy	lene; S = S	ilicone;	T = Tef	lon;	O = Other (	Specify)

ESP = Electric Submersible Pump;

O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain);

SITE (	Cloud's Che	vron / Univ	ersity Mar	t / Handy	/ Pantry		OCATION:	Columb	ia, South C	arolina	a			-
	MW	-67			SAMP						DATE	6:	2.15	
					PU		DATA							
	R (inches):		Well Depth (fe	9.		WELL S	CREEN INTE	35 fe	STATIC TO WAT			9 PL OF	REPUM RAILER:	PTYPE
WELL VC	LUME PURGE	:: I WELL V	= (	IOTAL WE		- SIMI	CDEPTHIC		X WELL	CAPACI		s/foot	=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
//30	_	_	21,7	_	7,2	_	186	-	1,26	_	35	,	ar	ODN
				+		-		+		1				
WELL CA	PACITY (Gallo	ns Per Foot):	0.75** = 0.0	2; 1" = 0	.04; 1.25	5" = 0.06;	2" = 0.16;	3" = 0.3	7; <b>4"</b> = 0.65	5" =	1.02;	8" = 1.4	7; 12" =	5.88
					SAI	MPLIN	G DATA		6.2.	15				
SAMPLED	BY (PRINT) meron	1.2 1	1.		ER(S) SIGN	NATURE(S	):		SAMPLING		T	SAMPL	ING TIME	
PUMP OR DEPTH IN	TUBING WELL (feet):	~	- N	TUBING	AL CODE:		-		6/2/( FIELD-FILTE Filtration Equ	RED:	Y OX Type:	>	FILTER	SIZE:
	PLE CONTAIN				SAMPL	E PRESE	RVATION		INTEND ANALYS AND/O METHO	SIS R	EQL	MPLING JIPMEN CODE	T I	AMPLE PUMP FLOW RATE nl/min)
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME	US	RVATIVE	TOTAL ADDED IN (mL	FIELD '	FINAL pH	_					
		CG	40 ml	HC					8260E 8011	3	1	3		
REMARKS	3:													

MATERIAL CODES: AG = Amber Glass;

SAMPLING EQUIPMENT CODES:

CG = Clear Glass;

APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Elect RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain);

PP = Polypropylene;

S = Silicone;

T = Teflon;

O = Other (Specify)

ESP = Electric Submersible Pump;

O = Other (Specify)

PE = Polyethylene;

SITE NAME:	Cloud's Che	vron / Univ	ersity Man	/ Handy	Pantry		OCATION:	Columbia	a, South C	arolin	a			
WELL NO	o: Mw-	68			SAMP	LE ID:					DATE			
					PU	RGING	DATA							
WELL DIAMETE	ER (inches):		Vell Depth (fe	2	2	WELL S	CREEN INTER	RVAL fee	STATIC TO WAT	ED Har			URGE PUM R BAILER:	IP TYPE
WELL VO	OLUME PURGE	: 1 WELL V	OLUME = (T) = (	35	L DEPTH fee	- STAT	IC DEPTH TO	WATER) feet)	X WELL	CAPACI	ITY gallons			gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
								+						
				-				-						
						-								
				-				$\vdash$			-	_		
												-		

## SAMPLING DATA

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLE	D BY (PRINT)			SAMPLER(S) SIG	NATURE(S):		SAMPLING DATE:	SAMPLING	TIME:
DEPTH IN	R TUBING N WELL (feet):			TUBING MATERIAL CODE			FIELD-FILTERED: Filtration Equipment		ILTER SIZE
DUPLICA	TE COLLECTE	D: Y	N					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
SAM	PLE CONTAIN	ER SPECIFI	CATION	ЗАМР	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			(Marinary)
		CG	40 ml	HCL			8260B		
		CG	40 mi	HCL			8011		
REMARKS	s: Not	L000	the .						
MATERIA	, , ,		lass; CG =	Clear Glass; PE =	Polyethylene;	PP = Polyprop	ylene; S = Silicone;	T = Teflon; O = (	Other (Specify
AMPLIN	G EQUIPMENT	CODES:	APP = After RFPP = Rev	Peristaltic Pump; erse Flow Peristaltic I	B = Bailer; BF Pump; SM = Stra	= Bladder Po w Method (T	ump; ESP = Electric ubing Gravity Drain);	Submersible Pump; O = Other (Specify)	

NAME:	Cloud's Che	vron / Uni	versity Mar	t / Handy Pant		LOCATION:	Columbi	a, South C	arolin				
VELL NO	· Mw-	-69		SA	MPLE ID:					DATE			
				F	URGINO	S DATA							
VELL	R (inches):	Total	Well Depth (fe		WELL S	CREEN INTE	RVAL 3.5 fee	STATIC t TO WAT			120	URGE PUM R BAILER:	IP TYPE
		: 1 WELL	/OLUME = (1 = (	OTAL WELL DEP	TH - STAT feet -	IC DEPTH TO	(WATER) feet)	X WELL	-				gallor
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
ELL CA	PACITY (Gallo	ns Per Foot):	0.75" = 0.0	2; 1" = 0.04; 1	.25" = 0.06;	2" = 0.16;	3" = 0.37	; <b>4</b> " = 0.65	5" =	1.02;	6" = 1.	47; <b>12"</b> =	5.88
AMDI ED	BY (PRINT)			SAMPLER(S) S		G DATA		SAMPLING	DATE		CAME	LING TIME	
				SAMPLEN(S) S	OWNIONE	,,,		SAMPLING	DATE.		SAMI	LING TIME	
EPTH IN	TUBING WELL (feet): TE COLLECTE	D: Y	N	TUBING MATERIAL COL	DE:			FIELD-FILTE Filtration Eq				FILTER	SIZE:
SAMF	PLE CONTAINI	ER SPECIFIC	CATION	SAN	IPLE PRESE	RVATION		INTEND ANALYS AND/O METHO	SIS R	EQU	MPLIN JIPMEI CODE	G NT	AMPLE PUMP FLOW RATE ml/min)
AMPLE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	ADDED IN (mL	FIELD	FINAL pH						
		CG	40 ml	HCL				8260	3				
		CG	40 ml	HCL			_	8011					
EMARKS	3.												

SAMPLING EQUIPMENT CODES:

APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electr RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain);

ESP = Electric Submersible Pump;

O = Other (Specify)

NAME:	Cloud's Che	vron / Univ	ersity Mar	t / Hand	ly Pantry		LOCATION:	Columb	ia, South C	arolin	а			
WELL NO	· MW-	70			SAME	PLE ID:					DATE	:		
					PL	JRGIN	IG DATA							
	R (inches):	Total V	Vell Depth (fe	et): 3	5	DEPT	SCREEN INTER	PAL fe	et TO WAT	TER (fee	et): 28	6 P	URGE PUM R BAILER:	PTYPE
WELL VO	LUME PURGE	: 1 WELL V	OLUME = (T = (	TOTAL WI	ELL DEPTH fer	et -	ATIC DEPTH TO	WATER)	X WELL	CAPAC	gallons		-	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Λ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
7/50	2	_	20,3	~	7,/	-	312	>	0.84	-	62	_	CL	yes
						_	-							
							-			-				
										-	_			
				-										
				1		1								

### SAMPLING DATA

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

	D BY (PRINT)		10	SAMPLER(S) SIG		h	SAMPLING DATE:	SAMPLING	
PUMP OF DEPTH IN	R TUBING N WELL (feet):		R	TUBING/ MATERIAL CODE	Molorga	act	5-28-15 FIELD-FILTERED: Filtration Equipment	Y N FI	LTER SIZE:
DUPLICA	TE COLLECTE	D: Y	N					,,	
SAM	PLE CONTAIN	ER SPECIFIC	CATION	SAMP	LE PRESERVATION	١	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			,,
		CG	40 ml	HCL		-	8260B	13	
		CG	40 ml	HCL			8011	3,	
REMARKS	S:								
MATERIA	L CODES: A	G = Amber G	lass; CG =	Clear Glass; PE =	Polyethylene; P	P = Polypropy	dene; S = Silicone;	T = Teflon; O = 0	Other (Specify
AMPLIN	G EQUIPMENT	CODES:		Peristaltic Pump; erse Flow Peristaltic	B = Bailer; BP	= Bladder Pu	mp; ESP = Electric	Submersible Pump;	

SITE NAME:	Cloud's Che	evron / Un	iversity Ma	rt / Handy	Pantry		OCATIO	N: Colu	umbia	a, South C	arolina	9			
WELL N	o: MW	-5a	R		SAM	PLE ID:						DATE	5-	28-15	
					Pl	JRGING	G DA	ΓΑ							
WELL	ED (Inches):	Tota	Well Depth (	eet): 29	2	WELL S	CREEN	INTERVA	> .	STATIC	DEPTH	20 4	/ PI	URGE PUM	
	ER (inches): OLUME PURG	E: 1 WELL	VOLUME = (	TOTAL WEI	L DEPTH	H - STAT	IC DEPT	et to 28	TER)	feet TO WATER (feet		t):/	/ 0	R BAILER:	
			= (			et -			feet)		<i>37 tt 7 to 1</i>	gallons	foot	=	gallon
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COI	100	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
4					- 0		- 100								
9130		-	20.8	7	7,0		215		-	0.95	0	20	_	ar	Yes
				+		-			4						
							-		+						
			-	+				_	_						
/ELL C/	APACITY (Gallo	ons Per Foot	: <b>0.75</b> ²³ = 0.0	2; 1"=0.	04; 1.2	5" = 0.06;	<b>2</b> ** = 0.	16, 3" =	0.37;	<b>4</b> " = 0.65;	5" =	1.02; 6	" = 1.4	i7; <b>12"</b> =	5.88
AMPLE	D BY (PRINT)		10	SAMPLE	SA R(S) SIG	MPLING NATURE(S)	DA	ΓΑ		SAMPLING (				LING TIME:	
UMP OF	R TUBING WELL (feet):	Coem	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	TUBING		Octor.	nocl	R		5-28-	RED:		9:	FILTER	SIZE:
	TE COLLECTE	D: Y	(N)	WAT END	LOUDE	-				Filtration Equ	pment	ype:			
SAM	PLE CONTAIN	ER SPECIFI	CATION		SAMP	LE PRESER	RVATION	ı		INTENDE ANALYS AND/OF METHO	IS R	EQU	IPMEN ODE	T F	AMPLE PUMP LOW RATE nl/min)
AMPLE CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESER		TOTAL \ ADDED IN (mL)	FIELD	FINAL pH							
		CG	40 ml	HCL						8260B			3		
		CG	40 ml	HCI					1	8011		T	3		

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

REMARKS:

checkorfp

SITE NAME: Cloud's Chevron / University Mart	/ Handy Pantry	SITE Columbia, South Carolina	
WELL NO: RW- R	SAMPLE ID:		DATE: 5-28-15

WELL		Tatalii	Vall Darth #	-4).			G DATA		T					
4.1.41.41.41.41	R (inches): 4	l otal v	Vell Depth (fe	et):	9	DEPTH	SCREEN INTE	O O fe	STATIC let TO WAT		et):24,3	PU	JRGE PUN R BAILER:	
WELL VO	LUME PURGE:	1 WELL V	OLUME = (T = (	OTALW	ELL DEPTH	et -	IC DEPTH TO	WATER	X WELL					gallon
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
1:00	2	_	21,1	-	7.0		337	-	0,91	-	16	1	CL	Yes
				_		-		+						_
								+-				$\dashv$		_
WELL CAF	PACITY (Gallon	s Per Foot):	<b>0.75"</b> = 0.02	; 1"=	0.04; 1.2	5" = 0.06;	219 = 0.16;	3" = 0.37	'; <b>4"</b> = 0.65;	5" =	1.02; 6	" = 1.4	7; 12" =	5.88
					CAI	MDI IN	G DATA							

#### SAMPLED BY (PRINT) SAMPLER(S) SIGNATURE(S): SAMPLING DATE: SAMPLING TIME: 5-28-15 Kuan clocarde 1100 PUMP OR TUBING TUBING FIELD-FILTERED: TUBING () MATERIAL CODE: B FILTER SIZE: DEPTH IN WELL (feet): Filtration Equipment Type: DUPLICATE COLLECTED: N SAMPLE INTENDED SAMPLING PUMP **ANALYSIS** SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION EQUIPMENT FLOW AND/OR CODE RATE METHOD (ml/min) TOTAL VOL SAMPLE MATERIA PRESERVATIVE FINAL CONTAINER VOLUME ADDED IN FIELD ID CODE LCODE USED pH (mL) CG 40 ml HCL 8260B CG 40 ml HCL 8011 REMARKS: MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify) APP = After Peristaltic Pump; B = B RFPP = Reverse Flow Peristaltic Pump; SAMPLING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump: SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

check for

# **GROUNDWATER SAMPLING LOG**

O. CITTION.	Cloud's Che		craity Mai	C/ Hall	ay Family		SITE LOCATION:	olumbia	, South C	arolin				
WELL NO	PW-	IR			SAMP	LE ID:					DATE	:		
			- 8		PU	RGIN	G DATA					2:	3.14 6	TP B
	R (inches):		Vell Depth (fe	5	0	WELL S	SCREEN INTER	RVAL feet	STATIC TO WAT	DEPTH	23.2		URGE PUM	
WELL VO	LUME PURGE	: 1 WELL V	OLUME = (1 = (	OTALW	ELL DEPTH fee	- STAT	IC DEPTH TO	WATER)	X WELL	CAPAC	ITY gallons			gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
												_		
VELL CA	PACITY (Gallon	o Por Footh	0.75" - 0.00	433	204 425									

SAMPLED BY (PRINT) SAMPLER(S) SIGNATURE(S): SAMPLING DATE: SAMPLING TIME: PUMP OR TUBING TUBING FIELD-FILTERED: FILTER SIZE: DEPTH IN WELL (feet): MATERIAL CODE: Filtration Equipment Type: DUPLICATE COLLECTED: SAMPLE INTENDED SAMPLING **PUMP ANALYSIS** SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION EQUIPMENT FLOW AND/OR CODE RATE METHOD (ml/min) TOTAL VOL SAMPLE MATERIA **PRESERVATIVE** FINAL CONTAINER VOLUME ADDED IN FIELD ID CODE LCODE USED pH (mL) CG 40 ml HCL 8260B CG 40 ml HCL 8011 REMARKS NAT

SAMPLING DATA

MATERIAL CODES: AG = Amber Glass;

SAMPLING EQUIPMENT CODES:

CG = Clear Glass;

APP = After Peristaltic Pump;

RFPP = Reverse Flow Peristaltic Pump;

PP = Polypropylene;

SM = Straw Method (Tubing Gravity Drain);

BP = Bladder Pump;

S = Silicone;

T = Teflon;

O = Other (Specify)

ESP = Electric Submersible Pump:

O = Other (Specify)

PE = Polyethylene:

B = Bailer;

NAME:	Cloud's Che	evron / Univ	ersity Mar	t / Han	dy Pantry		SITE LOCATION: C	olumb	ia, South C	arolina	a			
WELL NO	DW-	-1			SAME	PLE ID:					DATE	5-	29-15	5
					PU	JRGIN	G DATA							
	R (inches):		Vell Depth (fe	et): 7	0	WELLS	GREEN INTER		STATIC ret TO WAT	DEPTH ER (fee	16.2	PO	URGE PUM	
WELL VO	DLUME PURGE	E: 1 WELL V	OLUME = (T = (	OTAL W			IC DEPTH TO		) X WELL	CAPACI	TY gallons		=	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
9:00	5,0	5.0	21,5	_	7.8	-	195	_	1,26	_	21		Clic	UD
9:05	2.5	7.5	21.2	0.3	7.8	0	199	4	1.01	,25	106	85	SIM	NA
8:10	2.0	9.5	2019	0,3	7.9	0.1	196	3	1.00	.21	399	293	ail	No
9:15	2.0	11.5	30.8	01	7.3	0.6	184	12	0.49	.01	265	134	0/4	40
9:20	2,0	13.5	2018	0	6.4	0.4	182	2	0.99	0	36	179	ale	NO
9:25	25	16-0	20.9	01	6,9	0-	185	3	0.97	.02	12,8	73.2	ow.	NO
9:30	1.9	185	20.8	0.1	6.8	0-1	180	9	0.98	10	6.5	6.3	06/	DU
													0-7	

SAMPLING DATA

**WELL CAPACITY** (Gallons Per Foot): **0.75**" = 0.02;  $1^n = 0.04$ ;  $1.25^n = 0.06$ ;  $2^n = 0.16$ ;  $3^n = 0.37$ ;  $4^n = 0.65$ ;  $6^n = 1.02$ ;  $6^n = 1.47$ ;  $12^n = 5.88$ 

Ru	OBY (PRINT)	MeCoro	nack	SAMPLER(S) SIG	NATURE(S):	male	SAMPLING DATE: 5-29-15	SAMPLING 9:30	TIME:
DEPTHT	TUBING WELL (feet): TE COLLECTE	_	-	MATERIAL CODE			FIELD-FILTERED: Filtration Equipment	Y (N) FI Type:	LTER SIZE:
	PLE CONTAIN			SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODF	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		CG	40 ml	HCL			8260B	B	
		CG	40 ml	HCL			8011	13	
REMARK									
	L CODES: A		APP = After	Clear Glass; PE = Peristaltic Pump; erse Flow Peristaltic I	B = Bailer; B	PP = Polypropy P = Bladder Pur aw Method (Tu		T = Teflon; O = 0  Submersible Pump; O = Other (Specify)	Other (Specify)

SITE NAME: Cloud's Chevron / University Mart / Handy F	Pantry	SITE Columbia, South Car	olina
WELL NO: DW-3	SAMPLE ID:		DATE: 5-28-15

WELL VO	R (inches):	0.000,000,000		DEPTH: 47 feet to 52 feet (TOTAL WELL DEPTH - STATIC DEPTH TO WATER)					et TOWAT					
		CUMUL.	= (	1	fee	et –	T	feet	) X	_	gallons	foot	-	gallons
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	IDITY (NTU)	Δ	COLOR	ODO
2:05	50	5.0	21.9	_	7,5	-	333	-	1,85	-	HOOD	-	du	XC
2110	4,0	9.0	21.6	,3	7.2	13	320	7	1.21	,34	599	_	din	yes
2115	3.0	12.0	21.0	16	6.8	14	310	16	0.90	131	296	323	ah	ye)
2:20	35	15.5	20.9	1	6.9	1	315	9	0,92	02	77	219	Slay	Jes
225	2.5	18.0	20.8	f	6.9	0	311	14	0.25	03	52	25	Sluly	(je
3:30	3.0	21-0	20.6	. 2	6.8		310	/_	0.99	04	10	42	CV	X
				_				-		-				
								-		_				
				_				-						
		-												

PUMPOR	TUBING WELL (feet):	lomo	ck	SAMPLER(S) SIG	Mc Carm	ack	SAMPLING DATE:  3-28-15  FIELD-FILTERED: Filtration Equipment	Y (N) FI	
DUPLICA'	TE COLLECTE	D: Y	(0)	2550-4612-117-4411-117-117-117-117-117-117-117-11				.,,,	
SAMI	PLE CONTAIN	ER SPECIFIC		SAMP	LE PRESERVATION	4	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		B	
		CG	40 ml	HCL			8260B	1	
		CG	40 ml	HCL			8011	6	
REMARKS		G = Amber G	ilass; CG =	Clear Glass; PE	= Polyethylene; F	PP = Polypro	pylene; S = Silicone;	T = Teflon; O = 0	Other (Specify

NAME: Cloud's Chevron / University Mart	/ Handy Pantry	SITE Columbia, South Carolina
WELL NO: DW-H	SAMPLE ID:	DATE: -/5

## **PURGING DATA**

							DAIA								
WELL	R (inches):	Total V	Vell Depth (fe	et): 11	0		OS feet to		STATIC et TO WAT	DEPTH	4.44.5	J P	URGE PUN R BAILER:		5.
	LUME PURGE	: 1 WELL V	OLUME = (T	OTAL W	ELL DEPTH		IC DEPTH TO					-	TO DITTELL		- \
			= (			et -	10 021 111 10	feet		in no	gallons	foot	=	gallor	ns
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO	)R
255	5,0	5.0	24.6	ý	8,7		346	-	1,99	-	Hose	-	clu	5	Fra
300	4.0	9.0	24.7	0,1	8,0	6.3	192	154	1.88	111	888	-	die		
305	3.0	12.0	24 7	0	814	0,2	106	86	1.172	116	721	167	au		
310	4.0	16.0	24.7	9	8.1	03	112	6	1.64	108	606	45	and	1	
1315	3.5	19.5	24.6	0.1	7.9	0.2	95	17	1.66	107	421	185	CK		
320	3.5	23.0	24.6	0	7.2	0.7	104	9	1.24	,47	208	213	dy	1	
325	2,5	25.5	24.8	6.2	7.1	0.1	101	3	0.99	125	126	22	Sling		
330	2,5	28.0	24.9	0.1	6,7	0.2	99	2	0.86	13	91	35	6/19		_
335	20	20,0	20.9	0.3	9.8	0.1	96	3	084	10%	5%	39	SIM	1	
340	2.0	32.0	23,6	0.4	6.0	2	95	1	0.85	101	21.6	30.0	04	d	4
345	2,5	34.5	25.3	63	61	0.1	94	b	0.81	23	9,1	125	·C	7	1
												_		`	$\preceq$
								-							_
															_
WELL CA	PACITY (Gallo	ons Per Foot):	0.75" = 0.02	2; 1" =	0.04; 1.25	" = 0.06;	2" = 0.16;	3" = 0.3	7; 4" = 0.65;	5" =	1.02;	3" = 1.4	47; 12" =	5.88	

SAMPLE	D BY (PRINT)	12 N	Que -	SAMPLER(S) SIG	NATURE(S):		SAMPLING DATE:	SAMPLING	TIME:
DEPTHIN	VELL (feet):	_	_	TUBING MATERIAL CODE	-		FIELD-FILTERED: Filtration Equipment		ILTER SIZE:
DUPLICA	TE COLLECTE	D: Y	N				-		
SAM	PLE CONTAIN	ER SPECIFI	CATION	SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	ADDED IN FIELD (mL)	FINAL pH			
		CG	40 ml	HCL			8260B	13	
		CG	40 ml	HCL			8011	13	
REMARK		G = Amber G	lace: CG =	Clear Glass; PE:	= Polyethylene;	PP = Polyprop	oylene; S = Silicone;	T = Teflon; O =	Other (Specify)
	IG EQUIPMEN		APP = After	Peristaltic Pump; verse Flow Peristaltic	B = Bailer; BF	= Bladder P		Submersible Pump; O = Other (Specify	

SITE NAME: Cloud's Chevron / University Mart / Handy	Pantry	SITE LOCATION:	Columbia, South Carolina	
WELL NO: DW-5	SAMPLE ID:			DATE: 5-28-15
				2 00 /

WELL DIAMETEI WELL VO	R (inches): LUME PURGE		Veli Depth (fe	/	C ELL DEPTH	DEPTH				X WELL CAPACITY			PURGE PUN OR BAILERS	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	٨	pH (su)	Δ	COND. (μS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
1100	5.0	50	21.8	_	7.8	_	389	-	1.21	-	73/	-	any,	yes
1/25 1/27 1/25 1/30	3.00	8.0 11.0 13.5 11.0 18.5 20.5	20.9	0.2 0.7 0.1 0 0	7.6 7.4 7.2 6.9 6.9	0.2	389 364 324 318 321 329	7 18 40 6 3	0.99 0.99 0.91 0.90 0.90	08 01	129 129 104 1.5 6.0	238 183 25 25 89	Cuf Slay Cy	Jes Jes Jes

-1/	D BY (PRINT)		P	SAMPLER(S) SIG			SAMPLING DATE:	SAMPLING	
trya	a Mal	DOMGO	C	tuyan	- Mr Carn	nock	5-28-19	5 1113	0
PUMP OF	R TUBING I WELL (feet):	<		TUBING MATERIAL CODE			FIELD-FILTERED: Filtration Equipment	Y (N) F	ILTER SIZE:
DUPLICA	TE COLLECTE	D: Y	0						
SAM	PLE CONTAIN	ER SPECIFI	CATION	SAMP	LE PRESERVATIO	ON	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	ADDED IN FIELD (mL)	FINAL pH		13.	
		CG	40 ml	HCL			8260B		
		CG	40 ml	HCL			8011		
								11,	
						<del></del>			
REMARK	S:								
MATERIA	L CODES: A	G = Amber G	lass; CG =	Clear Glass; PE	= Polyethylene;	PP = Polypro	pylene; S = Silicone;	T = Teflon; O =	Other (Specify)
SAMPLIN	G EQUIPMEN	T CODES:		Peristaltic Pump; verse Flow Peristaltic		BP = Bladder P	Pump; ESP = Electric Tubing Gravity Drain);	Submersible Pump O = Other (Specify	

STATE OF THE STATE OF	Cloud's Che						OCATION:		ia, South C	J II				
VELL NO	o: DW	-6			SAMP	LE ID:						6.	1.15	-
					PU	IRGIN	DATA							
	ER (inches):		Well Depth (fe	1	0	WELL S DEPTH	CREEN INTER	o fe	STATIC et TOWA	TER (fee	t): 76		URGE PUM	
VELL V	OLUME PURG		OLUME = (T = (	OTAL W		- STAT	IC DEPTH TO		X WELL	CAPAC	TY gallons	s/foot	= 5	gallon
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
35	5.0	5.0	27.1	-	7.9	-	175.6	-	1,92	-	404	-	Chry	ny
40	4.0	13.0	29.2	2.1	7.7	0.2	177.8	2.2	1,01	102	129	_	simp	$\vdash$
50	3.5	16.5	24.2	3.3	6.9	0,6	160.8	17	1.04	10	2/1	44	Slug	$\vdash$
25	3.5	20.0	24.1	V	6.9	10	159,7	14.	1.05	101	13.4	7.6	Cm	
200	3-0	23.0	2410	1	6.8	0.	154.6	11	1.04	10	8.6	4.8	IN	1
			_	_						$\vdash$				- 4
ELL C	APACITY (Galle	ons Per Foot):	0.75" = 0.02	2; 1" =	0.04; 1.2	5" = 0.06;	2" = 0.16;	3" = 0.3	7; 4" = 0.65	5" =	1.02;	6" = 1.4	<b>47</b> ; <b>12</b> " =	5.88
					SAI	MPI IN	G DATA							
				SAMP	LER(S) SIGI				SAMPLING	DATE:			LING TIME	
AMPLE	D BY (PRINT)		11.						1	1/-		1	1:00	
Ca	Meren	War	lick	TUDIA	<u>C</u>	W	~		6.7					0.25
CUMP OF DEPTH II	R TUBING N WELL (feet):	>	_	TUBIN MATE	IG RIAL CODE:		_		FIELD-FILT Filtration Eq	ERED:	Y N		FILTER	SIZE:
CUMP OF DEPTH II	RTUBING	>	lick N				_		FIELD-FILT	ERED:	Y N			
CUMP OF DEPTH IF	R TUBING N WELL (feet):	ED: Y	N		RIAL CODE:	_	RVATION		FIELD-FILT	ERED: uipment DED SIS DR	Y N Type:		G I	SIZE:  AMPLE PUMP FLOW RATE nl/min)
UMP OF	R TUBING N WELL (feet):	ED: Y	N	MATE	RIAL CODE:	_	VOL F	NAL pH	FIELD-FILT Filtration Eq INTENE ANALY AND/O	ERED: uipment DED SIS DR	Y N Type:	MPLING	G I	AMPLE PUMP FLOW RATE
UMP OF EPTH III UPLICA SAM	R TUBING N WELL (feet): TE COLLECTE PLE CONTAIN CONTAINER	ED: Y  IER SPECIFIC	N)	PRES	SAMPI  ERVATIVE	LE PRESE	VOL F		FIELD-FILT Filtration Eq INTENL ANALY AND/C METHO	ERED: uipment DED SIS DR DD	Y N Type:	MPLINE DIPMEN CODE	G I	AMPLE PUMP FLOW RATE
UMP OF EPTH II UPLICA SAM	R TUBING N WELL (feet): TE COLLECTE PLE CONTAIN CONTAINER	ED: Y  HER SPECIFIC  MATERA L CODE	N) CATION VOLUME	PRES	SAMPI SAMPI SERVATIVE USED	LE PRESE TOTAL ADDED IN	VOL FI	рH	FIELD-FILT Filtration Eq INTENL ANALY AND/C METHO	ERED: uipment DED SIS DR DD	Y N Type:	MPLIN DIPMEN CODE	G I	AMPLE PUMP FLOW RATE nl/min)
UMP OF EPTH II UPLICA SAM	R TUBING N WELL (feet): TE COLLECTE PLE CONTAIN CONTAINER	MATERA L CODE	N CATION VOLUME 40 ml	PRES	SAMPI SAMPI SERVATIVE USED	TOTAL ADDED IN	VOL FI	pH 	FIELD-FILT Filtration Eq INTENL ANALY AND/C METHO	ERED: uipment DED SIS DR DD	Y N Type:	MPLINE DIPMEN CODE	G I	AMPLE PUMP FLOW RATE nl/min)

SAMPLING EQUIPMENT CODES:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass;

APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Elect RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain);

PP = Polypropylene; S = Silicone; T = Tefion;

ESP = Electric Submersible Pump; avity Drain); O = Other (Specify)

O = Other (Specify)

PE = Polyethylene;

SITE CIO	ud's Chevron / University Mart / Handy	Pantry	SITE LOCATION: Columbia, South Ca	arolina
WELL NO:	DW-7	SAMPLE ID:		DATE: 5-28-15
				0 0 1

#### **PURGING DATA** WELL SCREEN INTERVAL DEPTH: 50 feet to 55 Total Well Depth (feet): PURGE PUMP TYPE WELL STATIC DEPTH 55 TO WATER (feet): 24.32 OR BAILER: DIAMETER (inches): feet WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) WELL CAPACITY feet feet) X gallons/fcot = gallons CUMUL. TURB VOLUME COND. pH VOLUME TEMP DO TIME ٨ IDITY COLOR **ODOR** PURGED **PURGED** (°C) (su) (uS) (mg/L) (NTU) (gallons) (gallons) 1:20 95 4 3 6,99 2 9 30 0 ~ 4 0,4 :30 0 21.0 219 2 0 13-0 21,2 01 Nes 0.88 2,5 1:40 19. 9 5 45 21. 4 4.5 6-6 WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLE	BY (PRINT)			SAMPLER(S) SIG	NATURE(S):	0	SAMPLING DATE:	SAMPLING	
Ku	50 P	Actor	mark.	Hugan 7	McCarm	ock	5-28-15	1:45	5
DEPTHIN	TUBING WELL (feet):	-		TUBING MATERIAL CODE			FIELD-FILTERED: Filtration Equipment		LTER SIZE:
DUPLICA	TE COLLECTE	D: (Y)	N						
SAM	PLE CONTAIN	ER SPECIFIC	CATION	SAMP	LE PRESERVATIO	N	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		B	
		CG	40 ml	HCL			8260B	7	
		CG	40 ml	HCL			8011		
REMARK	5:								
MATERIA	L CODES: A	G = Amber G	lass; CG =	Clear Glass; PE	= Polyethylene;	PP = Polypro	pylene; S = Silicone;	T = Teflon; O =	Other (Specify)
SAMPLIN	G EQUIPMEN	T CODES:		Peristaltic Pump; erse Flow Peristaltic		P = Bladder P aw Method (7	ump; ESP = Electric Tubing Gravity Drain);	<ul> <li>Submersible Pump;</li> <li>O = Other (Specify)</li> </ul>	

SITE Cloud's Chevron / University M	art / Handy Pantry	SITE LOCATION: Columbia, South	Carolina
WELL NO: DW-8	SAMPLE II	):	DATE: 5-29-15
	PURC	SING DATA	

				, 0	I/OII4	G DATA								
		/ell Depth (fe	ッ		DEPTH		5 fe	et TO WAT	ER (fee	t):5,3		OR BAILER		
ME PURGE:	1 WELL VO	= (T	OTAL W						APAC		/foot	foot =		
PURGED	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO	
	5.0	21.4	-	7.2		346	_	1.26	-	611.	-00	ay	YE	
		011		10	1	100		094	117	782	124	9	TR	
	101		7	1 0	•		17	0.93	06	2/1	130	cils	Ale	
and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th		20.9	0	6.8	,1	299	3	0.92	181	92	114	SHL	, ,	
	19.0	2019	0	6.8	0	245	4	0.93	,01	50	42	Chr	1-	
	22.0	21.8	1	6.7	1	0 1	ĮĮ.	0.61	_	-		in	V	
3.0	25,0	21.8	0	6.7	0	296	2	0.49	18	57	124	OX	V	
	VOLUME PURGED (gallons)  5. 0  2. 5  3. 0	CUMUL. VOLUME PURGED (gallons)   S. O   S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O   C. S. O	ME PURGE: 1 WELL VOLUME = (T = {   VOLUME   VOLUME   VOLUME   VOLUME   VOLUME   PURGED (gallons)   (gallons)	NE PURGE: 1 WELL VOLUME = (TOTAL WELL VOLUME   TEMP. (°C) (gallons) (gallons) (s. 0 21.4 - 2.5 7.5 21.6 3	MEPURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee	DEPTH   DEPTH   DEPTH   DEPTH   STATE     DEPTH   STATE     DEPTH   DEPTH   STATE     DEPTH   DEPTH   STATE     DEPTH   DEPTH   STATE     DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   DEPTH   D	DEPTH   D   feet to	DEPTH: 50   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   feet to 55   fee	DEPTH: 50   feet to 95   feet   TO WAT	DEPTH: 50   feet to 5   feet   TO WATER (feet   MEPURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER)   X   WELL CAPACIFEET -   feet   X   WELL CAPACIFEET   X   WELL CAPACIFEET   X   WELL CAPACIFEET   X   WELL CAPACIFEET   X   WELL CAPACIFEET   X   WELL CAPACIFEET   X   WELL CAPACIFEET   X   WELL CAPACIFEET   X   WELL CAPACIFEET   X   WELL CAPACIFEET   X   WELL CAPACIFEET   X   WELL CAPACIFEET   X   WELL CAPACIFEET   X   WELL CAPACIFEET   X   WELL CAPACIFEET   X   WELL CAPACIFEET   X   WELL CAPACIFEET   X   WELL CAPACIFEET   X   WELL CAPACIFEET   X   WELL CAPACIFEET   X   DO (mg/L)   A   DO (mg/L)   A   DO (mg/L)   A   MINING   X   WELL CAPACIFEET   X   MINING   X   WELL CAPACIFEET   X   MINING   X   WELL CAPACIFEET   X   MINING   X   WELL CAPACIFEET   X   MINING   X   WELL CAPACIFEET   X   MINING   X   WELL CAPACIFEET   X   MINING   X   WELL CAPACIFEET   X   MINING   X   WELL CAPACIFEET   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINING   X   MINI	DEPTH: 50   feet   TO WATER (feet): 5, 5	DEPTH: 50   feet   TO WATER (feet): 5, 5   OF ME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER)   X   WELL CAPACITY   gallons/foot   WOLUME   TEMP.   (°C)   Δ   PH   Δ   COND.   Δ   DO (mg/L)   Δ   IDITY   (NTU)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (MS)   Δ   (M	DEPTH: 50   feet to 5   feet   TO WATER (feet): 5, 3   OR BAILERY:   MEPURGE: 1 WELL VOLUME	

# SAMPLED BY (PRINT) SAMPLED BY (PRINT) SAMPLER(S) SIGNATURE(S): SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING DATE: SAMPLING TIME: 11 3 0 PUMP OR TUBING DEPTH-INIWELL (feet): DUPLICATE COLLECTED: Y SAMPLE PRESERVATION SAMPLE PRESERVATION SAMPLE PRESERVATION SAMPLE PLOW RATE (ml/min)

SAMI	PLE CONTAIN	ER SPECIFIC	CATION	SAMP	LE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	PUMP FLOW RATE (ml/min)	
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN F ELD (mL)	FINAL pH		4		
		CG	40 ml	HCL			8260B	13		
		CG	40 ml	HCL			8011	B		
REMARK	3.									

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

IAME:	Cloud's Che	vron / Univ	ersity Mar	t / Handy F	antry		OCATION:	Columbi	a, South C	arolina				
ELL NO	Dw-	9			SAMPLE	E ID:					DATE	5-2	15/ -1	5_
					PUF	RGING	DATA							
ELL		Total V	Vell Depth (fe	eet): 65			CREEN INTE		STATIC	DEPTH	011.0	PL	JRGE PUN	P TYPE
	R (inches):	• 1 WELL V	OLUME = /		DEPTH .	DEPTH: 60 feet to 65 feet TO WATER (feet): 24,  OR BAILER: €							03	
			= (		feet			feet)		21 11 1101	gallons	s/foot	=	gallor
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODO
45	5.0	5.0	21.2	- 7	. 6	-	352	-	1.00	-	621	~	dhe	rept
So	4.0	9.0	21.8	1 7	,4.	12	326	26	1.01	,01	319	301	on	
`SS	3.0	120	21.6	127	14	0	309	17	0.99	10/	182	167	SIL	
Co;	3.0	15.0	21.2	147	1.2	12	306	3	0.94	105	106	46	0/1/	
:05	30	18.0	21.1		17	13	304	2	0,94	D,	92	14	day	
10	2.5	205	21.1		19	9	304	2	0.95	181,	16	16	CK	1
15	26	22.5	21.1	0 1	-9	0	301	3	0.94	01	80	8	ar	1
												_		
ELL CA	PACITY (Gallo	ons Per Foot):	0.75" = 0.0	2; 1" = 0.04	4; 1.25"	= 0.06;	2" = 0.16;	3" = 0.37	4" = 0.65	5" =	1.02;	6" = 1.4	17; <b>12</b> " =	5.88
					SAM	PLIN	G DATA							
MPLE	BY (PRINT)		1	SAMPLER				10	SAMPLING	DATE:		SAMP	LING TIME	
Ki	1 60 (	necorn	NACK	TIM	nu "	Cilc	Cocno	c.K	5.58.			2:	15	
JMP OR	TUBING WELL (feet):	_		TUBING MATERIAL	CODE	_			FIELD-FILTE Filtration Equ	RED:	Y (N	2	FILTER	SIZE:
	TE COLLECTE	D: Y	N	IVIVAT ELIVINA	. 0002.				i ilidadori Eq	артотк	тура.			
									INTEND	ED		e waster to see the		AMPLE
SAMI	PLE CONTAIN	ER SPECIFIC	ATION	1	SAMPLE	PRESE	RVATION		ANALY	SIS		MPLING		PUMP
			1						AND/O METHO		(	CODE		RATE ml/min)
AMPLE	CONTAINER S	MATERIA L CODE	VOLUME	PRESERV. USED		TOTAL ADDED IN (mL	I FIELD	INAL pH				13		
	3	CG	40 ml	HCL		9112			8260	3	1	,		
		CG	40 ml	HCL					8011			1		
				1,00								1.		
											1	/		
					_						+		_	
											1		- 1	
			+								_		_	

SAMPLING EQUIPMENT CODES:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass;

REMARKS:

APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Elect
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain);

PE = Polyethylene; PP = Polypropylene;

BP = Bladder Pump;

O = Other (Specify)

ESP = Electric Submersible Pump; avity Drain); O = Other (Specify)

SITE	Clas	ids			SITE	TIONCOLL	imbia, S	C		
WELLNO		R	23	SAM	(PLE ID)		and a second	DAT	5-29	1-15
			)	_						/
WELL		Lotalia	Vell Depth (te		URGING D	ATA EN INTERVAL	STATIC DE	יום של		PUMP TYPE
DIAMETE	R (inches)				DEP TH:	teet to	teet TOWATER	(feet) 19,0	9 OR BAI	
MEET AC	DLUME PURGE	: 1 WELL V	OLUME = (T	OTAL WELL DEPT	H - STAIR DE Meet-		R) X WELL CAP et) X		is/foot =	gartons
ТМЕ	VOLUME PUPGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	) pH (5u)		OND (aS)	DO (mgA.)	TURB ICITY (NTU)	A C0	LOR ODOR
						1	0	08		
		-	R	e ·	\$ COC	AUX.				
			1 0		1			+		
								$\perp$		
WELL CA	PACITY (Gale	ons Per Foot)	<b>U.75"</b> = 0.0.	2, 1"= 9.64; 1.	25" = 0 0€, 2"	= 016, 3" = 0	37, <b>4" =</b> 0 65,	<b>5"</b> = 1.02,	<b>6"</b> = 1.47,	12" = 5 38
				SA	AMPLING D	ATA				
SAMPLE	BYIPRINT			SAMPLER(S) SI			5-29-15		SAMPLING	TIME
	WELL (feet)			TUBING MATERIAL COD	E		FIELD-FILTERS Fitration Equipm	D: Y 1	4 F	LYER SIZE
DOPLICA	TE COLLECTE	Ф у	N							SAMPLE
SAM	PLE CONTAIN	ER SPECIFIC	ATION	SAM	PLE PRESERVA	пон	ANALYSIS AND/OR METHOD		AMPLING DUIPMENT CODE	PUMP FLOW RATE (m/min)
SAMPLE DICOGE	CONTRINER S	MATERIA L CODE	VOLUME	PIRESERVATIVE USED	TOTAL VOL ADDED IN FIEL INC.)	FINAL DH				
	3	CG.	40 ml	HCL	-	-	9260B			
	3	PE PE	40 ml	HCL HNO3	-	+	8011	-		
			200113	711100	1	1	0010	_		
REMARK	>									
MATERIA	L CODES A	G = Amber G	ass, CG =	Clear Glass, PE	E = Polyethylene,	PP = Polypro	pyfene. S = Sitto	one, I = T	etion; O =	Other (Speaty)
SAMPLIN	G EQUIPMEN	T CODES:	APP = Ater	Peristaltic Pump.	B = Bailer,	BP = Bladder F	Pump; ESP = E	ectric Subm	erable Pump;	

STABILIZATION CRITERIA

pH: ±0.2 units Temperature: ±0.2 % Specific Conductance: ±5% Dissolved Oxygen: ±0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

Free Prod.

# GROUNDWATER SAMPLING LOG

SITE CLONOUS	LOCATION COlumba	80
WELLNO UNK-4	SAMPLE ID	DATE 5-29-15

ELL		T otal //v	ell Depth (re-	et):		DATA	(VAL	STATIC	DEPTH		PU	P TYPE			
HAMETER (Inches) VELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH						DEPTH:		teet				OF	OR BAILER:		
ELL VO	LUME PURGE	: 1 WELL VO	DLUME = (T	OTAL W	ELL DEPTH tee		C DEPTH TO	vvaTER) teet)		AP AC I	Ty gailons/	toot =		gallons	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP (°1)	8	рН (103)	-7	COND (uS)	7	DO (figf.)	×	TURB IDITY (NTU)	8.	COLOR	000	
			0.0	12	-601	2 T	.1	/							
			, ec	1			01/								

KUMP OF	BY PRINT I	Coci	nerle	SA SAMPLERISTSION TUBINO TUBINO MATERIAL CODE	McCom	1	SAMPLING DATE: SAMPLING TIME:  5-24-/5  FIELD-FILTERED: Y N FILTER SIZE  Filtration Equatment Type							
	PLE CONTAIN		CATION		LE PRESERVATION	1	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)					
SUMPLE DIGGODE	CONTRINER S	MATERIA L DODE	YOLUME	PIRESERVATIVE USED	TOTAL YOU ADD ED IN FIELD Infl.	FINAL pH								
	3	03	40 ml	HCL			8260B							
	3	CG	40 ml	HCL			8011							
	1	PE	250 ml	HNO3			6010							
REMARK		G = Aminer G	lass, CG =	Tient Glass DF	= Polvethylene,	PP = Polypro	pylene. S = Silicone.	T = Tetlon: O =	Jither   Spe a					
	G EQUIPMEN		APP = After	Penstaltic Pump	B = Barler, BP	= Bladder F		ic Submerable Pump;						

 $\frac{\text{Stabilization Criteria}}{\text{pH:} \pm 0.2 \text{ units.}} \text{ Temperature:} \pm 0.2 \text{ %} \text{ Specific Conductance:} \pm 5\% \text{ Dissolved Oxygen:} \pm 0.2 \text{ mg/L} \text{ or} \pm 10\% \text{ Turbidity:} \pm 10 \text{ NTU or} \pm 10\% \text{ }$ 

Colombia

WELLING	U	NKE			SAMP	LE ID		DATE 5:28-15						
			D		PU	RGING	DATA							
	OFFICE TOTAL WELL DEPTH (feet)  DIAMETER (inches)  VELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEF						REEN INTER	PURGE PUMP TY OR BAILER:						
WELL VO	DLUME PURGE	: 1 WELL VO	DLUME = (	TOTALW		- STATE	DEP TH TO	VVATER) teet i		CAP ACI	TY galions	100t	-	gallons
TIME	VOLUMB PURGED (gailons)	CUMUL. VOLUME PURGED (gallons)	TEMP (%C)	١.	PH (uz)	1	00ND (uS)	7	DO (mgL)	X	TURB IDITY (NTU)	١.	COLOR	ODOR
		F(4	20		100		oct		Q			^		
		1			1				• ()	10	C	_		
												_		

#### SAMPLING DATA SAMPLED B / IPPINT) SAMPLER(S) SIGNATURE(S) SAMPLING DATE: SAMPLING TIME. PUMP OR TUBINO DEPTH IN WELL (ted) TUBING MATERIAL CODE FIELD-FILTERED: Y Filtration Equipment Type FILTER SIZE DUPLICATE COLLECTED SAMPLE INTENDED SAMPLING PUMP ANALYSIS AND/OR SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION EQUIPMENT FLOW CODE RATE METHOD (mimin) TOTAL VOL SAMPLE MATERIA P RESERVATIVE FINAL MOLUME CONTAINER ADDED IN FIELD ID-CODE LODGE USED ÞΗ HCL 40 m 8260B 40 m HCL 8011 250 ml HNG3 PE 5010 REMARKS MATERIAL CODES: AG = Amber Glass, CG = Clear Glass, PE = Polyeth Mene, PP = Polypropylene, S = Silicone, T = Tetion; O = Other (Specity) SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump. B = Bailer, BP = Bladder Pump ESP = Electric Submersible Pump. RFPP = Reverse FlowPendaltic Pump. SM = StrawMethod (Tubing Granty Drain); O = Other (Specify

WELL CAPACITY (Gallons Per Foot) 0.75" = 0.02, 1" = 0.04, 1.25" = 0.06, 2" = 0.16, 3" = 0.37, 4" = 0.65, 5" = 1.02, 6" = 1.47, 12" = 5.88

STABIL ZATION CRITERIA

pH: ±0 2 units Temperature: ±0 2 °C Specific Conductance: ±5% Dissolved Oxygen: ±0 2 mg/L or ± 10% Turbidity: ± 10 NTU or ± 10%

NAME:	Cloud's Chev	ron / Unive	ersity Mart	/ Handy	Pantry		ITE OCATION:	Columb	a, South C	Carolina				
	Sw-	-			SAME	LE ID:					DATE	5-	28-15	
					PU	IRGINO	DATA							
	R (inches):		ell Depth (fe			DEPTH:		fe fe	et TO WA	DEPTH TER (fee		OR BAILER:		
WELL VO	LUME PURGE	: 1 WELL VO	DLUME = (T = (	OTAL WEL		- STAT et -	IC DEPTH T	0 WATER) feet)	X WELL	CAPAC	s/foot	-	gallons	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP.	Δ pH (su)		Δ	COND. (μS)	۸	DO (mg/L)	۸	TURB IDITY (NTU)	٨	COLOR	ODO
115	-		23.4	-	7.9	_	415	-	1.32	-	102	-	CL	No
								-		+		-		-
_										+				-
										-				
										+				
								-						_
						-		+		+				
WELL CA	PACITY (Gallo	ns Per Foot):	0.753 = 0.02	2; 1" = 0.	04; 1.2	<b>5</b> ¹⁹ = 0.06;	2" = 0.16;	<b>3</b> " = 0.3	7; 4" = 0.6	5; <b>5</b> " =	= 1.02;	6" = 1.	47; <b>12"</b> =	5.88
					SA	MPLIN	G DATA							
1	BY (PRINT)	Corm	ock	The	R(S) SIG	NATURE(S	):		SAMPLING				LING TIME	:
PUMP OF	WELL (feet):			TUBING	AL CODE	Dr			FIELD-FILT Filtration Ed	ERED:	Y	D	FILTER	R SIZE:
DUPLICA	TE COLLECTE	D: Y	(40)										l s	AMPLE
SAM	PLE CONTAIN	ER SPECIFIC		SAMP	LE PRESE	RVATION		ANAL) ANAL) AND/ METH	YSIS OR	EQ	MPLIN UIPME CODE	G NT	PUMP FLOW RATE ml/min)	
SAMPLE ID CODE	CONTAINER S	MATERIA L CODE	VOLUME		RVATIVE ED	ADDED III	FIELD	FINAL pH						
		CG	40 ml	HC					8260					
	-	CG	40 ml	НС	L	-			8011	ļ				
						1								

SAMPLING EQUIPMENT CODES:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass;

APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Elect RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain);

PP = Polypropylene;

S = Silicone; T = Teflon;

ESP = Electric Submersible Pump; avity Drain); O = Other (Specify)

O = Other (Specify)

PE = Polyethylene;

# APPENDIX C

Groundwater Laboratory Analytical Report





#### ANALYTICAL REPORT

#### CLIENT

Crawford Environmental Services 15 Church Ave, SW Roanoke VA 24011

ATTENTION
Dan Fisher

PROJECT ID
Clouds

## LABORATORY REPORT NUMBER

Secondary Data Review By

1506305

**DATE** June 15, 2015

CKAnhav Ashley Amick

Chantelle Kanhai

Primary Data Review By

Project Manager, Access Analytical aamick@axs-inc.com

#### PLEASE NOTE:

- Unless otherwise noted, all analysis on this report performed at Analytical Environmental Services Inc. (AES Inc), 3080 Presidential Drive, Atlanta, GA 30340.
- AES is SCDHEC certified laboratory # 98016, NCDENR certified lab # 562, GA certified lab # FL-E87582, NELAP certified laboratory # E87582
- Local support services for this project are provided by Access Analytical, Inc. Access Analytical is a
  representative of AES serving client in the SC/NC/GA areas. All questions regarding this report should be directed
  to your local Access Analytical representative at 803.781.4243 or toll fee at 883.315.4243

LAB USE ON	LY	Access	Analytic	al - Cha	ain of Cust	tody Recoi	d Project W	/ork Order #/	500006
Sales Order #		PO #			Access Quote		Laborato		200300
Company Name: Craw	ford Envi		Preservative: (*see codes)					Access	
Report To: Caulo	0 10.	a fisher	Container Type: (*see codes)						rical, Inc.
Address: 15 Chack	n Δ/۲			3/6				•	
City: Roanoke S	tate: VA Zip: 2	H0]]		aphyhalene Në			7478 Carlisle St Irmo, SC 29063		(803) 781-4243 Fax: 781-4303
Phone: (504) 798-50	Fax:	) 343-62:	G) (P)	30			*Preservative Codes () 0 = None, 1 = HCL, 2 =	www.axs-inc.com	≭ above analysis field):
Email: Pfishaclesca	woodenviorn	,	rya (	E, M.			*Matrix Codes (place c	HNO., 3 = H/SO., 4 = NaOH NaHSO. & CH/OH, 7 = NaC presponding code in matrix	column):
Project ID: Clouds	<del>2000 200 20 00</del>	NSVIAL ICOM	STE	7 6			SL = sludge, A = air, fW (specify in comments se		aste oil, OT = other
Sampled By: Petca-	Tech	***************************************	REQUESTED LAB ANALYSIS: 4	X,MT 8260			Wastes (for soils, groun	CWA = Clean Water Act (for (for drinking waters), SHW = waters and waste samples	# wastewaters), SDWA = - Solid and Hazardous )
Sample ID/Description	Date Time Collected: Collected	Type: Matrix: Programmer (grab or composite) Are	am TOTAL a of containers	82.EX			NO	G = Glass, P = Plastic TES / COMME) e place we space below to note s	NTS
MW 28	5/12/15 8:45	Cr GW	Section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the sectio	3			Cooler	1	
MW 27	5/28/15 8:30	Ca Gw	Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled Controlled	3			1		
a due	5/24/15 10120	લ ૯૫	2 Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Containers Container	3					
DW T	5/28/15 1:45	Co Gw	2 sometimes	3					
M W 54	5/28/15 3:00	G GW	3 Section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the sect	3				***************************************	
m w 53	5/28/15 3:30	C7 GW	2 to the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of	3					
aw 7.0	5/28/15 2:50	Cr Crw	3 segment and a sering	3					
MW 17	5/28/15 7:00	G GW	3 Control of the second	3			1		
MW 8	5/29/15 11:15	G GW	3 Statement	3					
	5/29/15/10:00	Cr Crw	2 container	3					
Turnaround Time:	Project Location:	Relinq	uished By:		Received By:	Date (mm-dd-yy)		ples Rec'd Samp on Ice R	ple Temp. Upon Receipt (°C):
Standard RUSH*	SC	a-1	m. Wa	U	M	4/3/15	1600 -	_YN(	°C)(N/A)
*Date Required:(For rush work, results	NC	um		Fell	def	6/3/15	1100-	_YN  (°	°C)(N/A)
emailed/faxed by end of busi- ness day on date required)	Other			4	M	6/3/15	10:45AM -	YN 3.5,3	3. C)(N/A)
any ou date requiret)	(specify)							YN Page 2	€,92(N/A)
Pgof1	W.,		See Reve	erse for Terms	and Conditions			Original Copy - Reti Yellow Copy - Acces Pink Copy - Client C	ss File Copy

LAB USE ON	NLY	A	cces	s Ana	alytic	cal	- Cha	ain c	of C	usto	dy R	leco	rd _{Proi}	ect Work Ord	ter# (57)	6305
Sales Order #		2233	PO #_				02202		ss Qu				245,7.5	oratory ID:	101 J	
Company Name:	stord F.	ΛV,			vative: codes)									9	Access	
Report To: Dan	isher				iner Type codes)	•								5	Analytica	L, INC.
Address: 15 chusc	h AVE				-	a a	- 1							00		
	State: VA Z	p: 240	1)		YSIS:	glene,							Irmo, SC		Phone: (803 Fax s-inc.com	781-4243 : 781-4303
Frome: (504) 748 - 6	5068 Fax: (	540)	343-	6259	ANAL	1/aphyhala							*Preservative 0 = None, 1 =	Codes (place corresponded L. 2 = HNOs, 3 = H. 35 set w/ NaHSO: & C		re analysis field): la.S:O:,
Email: Dfisher @, Cra	oivns Loodw.	Me	ital, e.c	>w	[VB	77							6 = Method 50  *Matrix Codes  GW = ground	35 set w/ NaHSO+& C (place corresponding vator, WW = waste wa += air, IW = industrial v	H ₂ OH, 7 ≈ NaOH/ZnC code in matrix columi ter DW = dripking wa	AC, 8 ≈ H₃PO. i):
Project ID: Clonds					SSTEL	18E							(specify in con	iments section)		
Sampled By: Petra-	- <del>-</del> , ,	Env	***************************************	***************************************	REQUESTED LAB ANALYSIS:	Σ × ₹						ě	wastes (in so	a Codes: CWA = Cles Water Act (for drinking ils, ground waters and	waste samples)	and Hazardous
Sample ID/Description	Date Time Collected: Colle	Typ	Matrix: P	rogram TOTA Area # of	□ →	BTE /							*Container Ty	NOTES / C	COMMENTS	3
DW 9	5/28/15 2:1			3	o graphen Official								Cooker	a composite please use spa	to Pelow to note startfling	h times & dates)
	5/29/15 9:3	٥ (کر	Gω	3	onliners of periods	***							0/0			
MW 19	5/28/15 12:0	0 G		3	of or others	13										
mw 34	5/28/15 11:0	o G	, GW	3	Profession of	3										
MW 35	5/28/15 1111	5 4	Ģω	3	2 000 F	3										
	5/28/15 101	0 G	1 1	3	onteiner collected	3										9
mw9	5/28/15 214	5 G	i GW	3	collected	3										
RW-IR	5/28/15 110	o G	GW	3	# of contraines collected pre-	3										
mw 48	5/29/15 11:	00 G	z Gw	3	oottobers collected profess	3							\		<del></del>	
MW 33	5/28/15/013	0 6	7 GW	3	outsiness collected to per the	13							$\top \forall$			
Turnaround Time:	Project Locati	on:	Rel	inquished	Ву:		J	Received	Ву:		Da (mm-d	te d-yy)	Time (24HR)	Samples Recid	Sample Te Receip	mp. Upon
Standard RUSH*			a	m. h	<u> </u>		10	M	)		4-2-	15	1600	YN	(°C)	(N/A)
*Date Required: (For rush work, results	NC		Al	y)_			Fl	all	P		62	-15	ma	YN	(°C)	(N/A)
emailed/faxed by end of busi- ness day on date required)	Oth	èr					1	1			6/3/1	5	10:45A	/YN	3, S, 3, 3 (°C)	(N/A)
au, on and roquiter)	(specify)				······································		9	17414						YN	Page 3 of 82	(N/A)
2 2		16			See Rev	erse f	or Terms	and C	onditio	ons	17			Origina	al Copy - Returned	w/Report

Original Copy - Returned w/Report Yellow Copy - Access File Copy Pink Copy - Client Copy

LAB USE ON	ILY	A	ccess	Ana	lytic	al - Cha	ain of C	ustod	ly Reco	rd _{Proje}	ect Work Ord	lar# 151	16205
Sales Order #			PO #		- August		Access Q				ratory ID:	.c. #x	20.200
Company Name:	uford Env		William 1	Preserv (*see c								Access	
Report To:	olor a Eno			Conta	iner Type:						//	Access Analytica	ı. İnc
Address: 15 Church	nes			(*see c	odes)	2							2,
City: Sonok a	State: VA Zip:	240	1)		REQUESTED LAB ANALYSIS: ↓	Naphthalene, TAME				7478 Carl Irmo, SC 2	29063		781-4243 781-4303
Phone: (504) 798 - 50	Fax: <	o) 3º	43-625	5 9	ANAL	phin AME		i i		*Preservative C 0 = None, 1 = H	odes (place correspo	s-inc.com <i>Inding # in block abo</i> v SO ₄ 4 = NaOH 5 = N	re analysis field); la:S:O:
Email: Dfisher @ Cro	unfordenior			^	[VB]	1.1%				6 ≈ Method 503	5 set w/ NaHSO ₄ & Cl (place corresponding ater, WW = waste wat	450H, $7 = NaOH/ZnO$	AC, 8 = H₃PO₁
Project ID: Clands	0010 000.0	7 '61			STED	60 )				(specify in comm	= air, IW = industrial w nents section)	aste, WO = waste oil	OT = other
Sampled By: Petca -	Tech Ec	.V.	<del></del>		EQUE.	Z 2				*Program Area Safe Drinking W Wastes (for solls	Codes: CWA = Clear fater Act (for drinking to c, ground waters and	n Water Act (for wast vaters), SHW = Solid vaste samples)	ewaters), SDWA = and Hazardous
	Date Time Collected: Collected		Matrix: Progr (see codes) Arc	am TOTAL a # of les) container	7 →	PT EX T BA				*Container Typ (if sample is a		OMMENTS	h times & dutes)
MW-5aR	5/28/15 9:30	G	GW	3	container collected t per t	3				Cook			
nw 4	5/29/15 9:00	G	Gw	3	* of containers collected t per	3							
mw 1)	5/29/15 8115	G	Gω	3	# of containen collected per	3					1		
mw G	5/29/15 10:15	G	GW	3	ontainen collected collected per	3							
DW 8	5/29/15 11130	G	Gw	3	entripes collected per per	3							
Dup A	5/28/15 1:50	G	GW	3	outshern collected per	3							
1	5/25/15 1130	C	GW	3	ootsiness collected C Per	3							
nw 37	5/28/15 11:45	G	eω	3	oosaines collected par per per	3							
MW 18	5/28/15 10:4	5 C7	GW	3	# of ordered collected per per	3							
mw 32	5/28/159:45	G	GW	3	outshers collected collected	3					<del>U</del>	·· · · · · · · · · · · · · · · · · · ·	
Turnaround Time:	Project Location:		Relinq	uished E	By:		Received By:		Date (mm-dd-yy)	Time (24HR)	Samples Rec'd on Ice	Sample Ter Receip	mp. Upon
Standard RUSH*	<u>√</u> sc		C M	· n.	~	9	m	4	12/5	1400	YN	(°C)	(N/A)
*Date Required: (For rush work, results	NC		UM			1,70	edul	1	12/15	(nR)	YN	(°C)	(N/A)
emailed/faxed by end of busi-	Other				p0000000000000000000000000000000000000	95	1/1	_ (	0/3/15	10:45 AN	YN	3.5,3.3	(N/A)
ness day on date required)	(specify)					0			· · · · · · · · · · · · · · · · · · ·		YN	Page 4 of 92	(N/A)
Pg 3 of 1				S	ee Rev	erse for Term	s and Condit	tions	- 1		Yellow	I Copy - Returned Copy - Access File ppy - Client Copy	w/Report

LAB USE ON	ILY		Ac	cess	Ana	lytic	al	- C	hai	n of	Cus	tody	/ Rec	orc	Proje	ct Work O	rder # 15/	20205
Sales Order #				PO #						Access					100000	ratory ID:	·uc. ::	<u> </u>
Company Name: Crow	ard F	_^U.			Preserva (*see co										a della de	9	Access	
Report To: Dan Fis	her			*************	Contair (*see co	ner Type:									0	\$	Analytic	al, Inc.
Address: 15 Church	ΔVe.	-						T T		100								
City: Ranak & S	State: VA	Zip:	240			REQUESTED LAB ANALYSIS: 4	phikalene,								7478 Carl Irmo, SC 2	29063		3) 781-4243 ax: 781-4303
Phone: (504) 7 98-5068 Fax: (540) 343-62-59								7 8							Preservative C 0 = None, 1 = H	odes (place corre:	sponding # in block at	ove analysis field): : Na:S ₂ O ₅ ,
Email: Dfishera Crowfordenviornmental, com							100								ь = метоа 503	b set w/ NaHSO₄ &	CH:OH, 7 = NaOH, 3: or code in matrix column water, DW = drinking v Waste, WO = waste	10AC, 8 = H ₂ PO ₄
Project ID: Clouds	Project ID: 01													13	(Specify III con	idilis section)		
Sampled By: Petca -	Toch					Inčan	MIB	Da						ľ	Safe Drinking W Wastes (for soils	ater Act (for drinkir s, ground waters ar	lean Water Act (for wa ng waters), SHW = So nd waste samples)	istewaters), SDWA = lid and Hazardous
Sample ID/Description	Date Collected: C	lime Collected:	Type: (grab or composite	Matrix: Progr (see codes) Are	am TOTAL a # of des) containers	4 ↑	BTEX	口		*					*Container Typ (if sample is a	NOTES /	P = Plastic COMMENT puce below to pore start/h	TS
WM 16	5/28/15	2130	G	GW	3	occahers collected y per (	3	3							Cools		,	and a salety
<b>が</b> !	5/28/15	1115	G		3	onleiners collected per	,									<u> </u>		
MW 23	5/28/15	12/15	C	Gω	3	official collected per 1												,
NW 46	- 1	7:40	Cy	Crw	3	ontriners collected Per (									***************************************			
MW 25	5/28/15	9:00	G	GU	3	orderine Griderine Griderine Griderine Statistical												1 11114
mw 43	5/28/15	7:30	C ₇	GW	3	official official official												
mw 44	5/28/15	7:20	G	Gu	3	octaines collected Per												
MW 22	5/28/15		G	GW	3	oolected Second												
MW 45	5/28/15		G	GW	3	Section 5	Π,											
						o in the second	$\vdash \forall$	V										
Turnaround Time:	Project L	ocation:		Relino	uished By	y:			Rec	eived By	:		Date (m/m-dd-f/y)		Time (24HR)	Samples Rec		femp. Upon ipt (°C):
Standard RUSH*	<u></u>	_SC		0-1	n. i	V	-	(	A	m		W	12/15	-	600	Y	N(°C)	(N/A)
*Date Required:		NC_NC	6	ln				10	12	115	Fa	du	, ,	ĺ	40	Y	N(°C)	(N/A)
(For rush work, results emailed/faxed by end of busi-	_	_Other				x 100.0010000	4	Ă		11			13/15	10	0:45A1	7—Y—	N 3.5133	(N/A)
ness day on date required)	(specify) _							$\mathcal{D}$	, ,			-				Y	N Page 5 of 82	
Pg 4 of 2					Se	ee Rev	erse f	or Te	rms a	nd Con	ditions					Yello	inal Copy - Return w Copy - Access F Copy - Client Cop	ed w/Report

LAB USE ON	LY		Ac	ces	s Ar	naly	/tic	al ·	- Chaii	of (	Cust	ody F	leco:	rd _{Proi}	ect Work Or	der# 150	3/03/05		
Sales Order #	Had the			PO #_						ccess	Quote #			2000007	oratory ID:				
Company Name:	boatu	Fal	/			servati ee code									0	Access	3.4		
Report To:	Sher		·······		Con	ntainer ee code	Type:								<b>K</b>	ANALYTICA	AL, INC.		
Address:	AllE.		0.000 0.000		13/22			2											
City: Roanke	tate: VA	Zip: ¿	ا هاپ	1			REQUESTED LAB ANALYSIS:↓	Naphtalene,						7478 Car Irmo, SC			3) 781-4243 x: 781-4303		
Phone: (504) 798-50	68 F	ax: (540	34	13-6	259		ANA	a P						*Preservative 0 = None, 1 =	Codes (place corres	ponding # in block abo H:SO₄, 4 ≈ NaOH, 5 ≈ CH:OH, 7 ≈ NaOH/Zn	ive analysis field): Na:S:O:,		
Email: Disaber ac	auford	P.AW DC	Λ M =	244	.000		LAB	7-12						"Matrix Codes GW = ground v	(place correspondin vater, WW = waste v	g code in matrix colun ater. DW ≈ drinking w	nn): ater S = soil		
Project ID: Clouds					<u> </u>		STEL	w c						(specify in com	= air, IVV = Industria: ments section)	waste, WO = waste o	il, OT = other		
Sampled By:	ech	Env					năa.									ean Water Act (for was g waters), SHW = Soli d waste samples)	i and Hazardous		
	Date	Time Collected:	Type: (grab or composite	Matrix:	Program TC Area (see codes)	TAL of niners	5	BTEY						*Container Tyr	NOTES /	P = Plastic  COMMENT  sice below to note sturyfir	S		
	-1.	10130	c	Gw		3 8								Cooler		sac relew to twie stargin	isti umes oc umes)		
mw 51	5/29/15	8:30	G	(-W)	(	3	ooten ooten ooten ooten signal	3						1					
MW 58	5/29/15	11:15	G	GW		3 🕏	of policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy and policy a	3											
MW 59	5/28/15	2:00	G	GW		3	oorleed A Printer A Printer Subject of the	3								***************************************			
DUD C	5/28/15	2:05	હ	GW	-	3 8		3											
mw 56	5/28/15	4:00	T	C _r W	3	3	collected collected surface	3											
MW 55	5/28/15	3:45	J	GW	3	) g	Odlected Principle String	3		1000									
MW 13	5/28/15	3115	J	GW		3 %	Colleged Transfer	3							,				
Dw 3	5/28/15	12:30	G	Gω	3	1600.50		3							***************************************				
	5/28/15	1:35	S	GW	3	jo*		3											
Turnaround Time:	Project :	Location:		Re	elinquishe	d By:			Rec	eived By:		Da (mm-	ite id-yy)	Time (24HR)	Samples Rec'd		emp. Upon pt (°C):		
Standard RUSH*		_sc		0-	- 12	· w	1	-	H	m		4.2	15	1600	Yr	(°C)	(N/A)		
*Date Required: (For rush work, results	<u></u>	_NC		W	$\gamma_{\perp}$				Gede	4		4-8	2-15	1705	YI	(°C)	(N/A)		
emailed/faxed by end of business day on date required)		_Other					T TOUR ST		40	1/	_	@131	15	16:45 AM	yY	35,33	(N/A)		
wood day on date regulied)	(specify)				-					nitter and					YI	Page 6 q6@2	(N/A)		
Pg_5_of_7								erse f	for Terms and Conditions						Original Copy - Returned w/Report Yellow Copy - Access File Copy Pink Copy - Client Copy				

LAB USE ONLY		Access	Analytic	al - Ch	ain of (	Custo	dy Reco	rd _{broi}	ect Work Ord	10 × 150	10200
Sales Order #		PO #				Quote #	120		ratory ID:	ie: #(_)	<u> </u>
Company Name: Crawford	1 Fav.		Preservative: (*see codes)							Access	
	sher		Container Type:					- 0_	//	Analytica	I. INC.
Address:	/ 1		(*see codes)					_ ~~			-/
City: 7 State:	, Zip:	٤.	÷	35				7478 Carl	isle Street	Phone: (803)	
Phone:	Va.	24011	ALYS	othekne				Irmo, SC 2	www.ax	s-inc.com	: 781-4303
504.748.500	F8 54	0.343.62	59 Z	tool Turk				"Preservative C 0 = None, 1 = H 6 = Method 503	codes (place correspo CL, 2 = HNO ₅ , 3 = H ₅ 5 set w/ NaHSO ₄ & C	onding # in block abov SO-, 4 = NaOH, 5 = N H:OH, 7 = NaOH/ZnO.	o analysis field): a:S:O:, AC, 8 = H:PO:
Utisher (a) crai	stordenv.	conmertal.	Com To	47						code in matrix column ter. DW = drinking wat vaste. WO = waste oil,	
Clouds		480.30480	ESTE	70E				(Specify III Collin	wins secuon		
Sampled By: Petra	tech		REQUESTED LAB ANALYSIS: 1	Z. 25				wastes (for som	, ground waters and		and Hazardous
Sample ID/Description Date	Time cted: Collected:	Type: Matrix: Progra (grab or (see codes) Are:	m TOTAL					*Container Typ	NOTES / C	OMMENTS	;
DW 4 60		GEN	3 :	3				(a sauple is a	сонцияне ризве цве хрж	e below to note start/finis	times & dites)
MW67 6.2	15 11:30	6 GW	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7							
MW26 6:3	13:15	6 6W	3 5 3 3 5	3							· ·
MW 38 6.2	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		3 Springer	3							
	1.15 12:00		3 114	3						<u> </u>	
	2.15 11:45		3	3						recondence of	***************************************
	1.15 17:15		7 清晴	3							
	1.15 12:30	G GW	7	3							
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	12:50	6 6W	3	3					<del></del>		
Tip Blank			e of combiners of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of control of cont								
Turnaround Time: Pro	oject Location:	Relinqu	uished By:		Received By:		Date (mm-dd-yy)	Time (24HR)	Samples Rec'd	Sample Ter Receipt	np. Upon
Standard	SC	6-1	n. W-	·   i(	M	(	12/15	1000	YN	(°C)	(N/A)
RUSH* *Date Required:	NC	wh	1	4	100011	٠, ا	6/2/15	Ina	YN	(°C)	(N/A)
(For rush work, results emailed/faxed by end of busi-	Other		10000	4	ent		COIZILE	10:45/1	7YN	3.513.30	(N/A)
ness day on date required) (spe	cify)			10			<u> </u>	10-5000	YN	Page 7,0f-92	(N/A)
Pg ( of )			See Reve	erse for Terr	ms and Cond	itions	····	<u></u>	Yellow	Il Copy - Returned Copy - Access File Opy - Client Copy	w/Report

Original Copy - Returned w/Report Yellow Copy - Access File Copy Pink Copy - Client Copy

LAB USE ON	ILY	_Access	s Analyti	cal -	Chain o	Custo	ody R	ecord	Project V	Vork Ord	er#	1506
ales Order#	Code přepředě postave se	PO #				s Quote #			Laborato		er #	
Company Name:	Hord En		Preservative:		<u> </u>				Laborate			
Report To:	. ,	1/-	Container Typ						n -/		Access	
Address: Jan	to sher		(*see codes)		7				-0	/	Analytica	L, INC.
	urch Ave	*							8	, 0		
Knanoke	itate: VA Zip:	24011	SIS						7478 Carlisle S rmo, SC 29063	reet	Phone: (803	781-4243
hone:	Fax:	× = > 4	THE CONSTRUCTABLYSIS.		-					www.axs-	inc.com	1011010101010 NEO-150
imail:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 - 34 3 - 60	<i>₩</i> 277. <b>₹</b>		$g \mid \cdot \mid$			0.= 5.5	None, 1 = HCL, 2 = Method 5035 set w	DIACE COMESPOR HNOs, 3 ≈ H-SI 'NaHSOs & CH:	iding # in block abo O. 4 = NaOH, 5 = 1 iOH, 7 = NaOH/ZnO	ve analysis fleid); Na:S:O:,
1) + 1 5h e - /6; roject ID:	9 (rawford)	enviconn	<i>~/~/</i> ₹		3			"Ma GW	trix Codes (place o	orresponding o	ode in matrix column	7).
(100.0	17		STE	1£1.	$\downarrow $			SL >	= sludge, A = air, IV scify in comments s	' ≃ Industrial wa oction)	ode in matrix column r, DW = drinking we ste, WO = waste of	OT = other
ampled By:	- 10-b			11:	7			*Pro	gram Area Codes Drinking Water Ac	CWA = Clean (for drinking wa	Water Act (for wast aters), SHW = Solid asie samples)	ewaters), SDWA and Hazardous
aple ID/Description	Date Time	Type: Matrix:Pro	PTUD TOTAL	17/2	2		1	*Co	ntainer Type:	G = Glass, P =	asie samples) Plastic	
	Date Time Collected: Collected:	(grab or (see codes) A					1		NC	TES / CO	DMMENTS below to note start/fine	3
B INB	53515 13:37		2 2						The standard	e preuse use space	ceicne to note start/hine	ih rimes & dates)
B ENB	5:91513:42		- 111				+					Þ
	/ - 1		1 23		<del>                                      </del>							
7 600	(e.7.1) 11.00		88-					1				
B BIEX	5-28:45 12:37		12 W									
FB BTEX	50915 13:42		2 %E								·	
ER RTEV			, and a	5 t			_					
2212	42.15 11:50		2 1	1	<u> </u>					40		
			o distribution of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collecti	i					2	***************************************		
			, in the second	f								
			\$ 17.		<del>                                     </del>	_						
			* 878 <u>~</u> 678 →									
120			000 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 and 200 an									
urnaround Time:	Project Location:	Relino	quished By:		Received B	r	Date (mm-gd-y	y 7		oles Rec'd	Sample Ter	np. Upon
_ Standard	SC -	6-1	n. Wm	1	au		10/12	115 11	(12)	Y N	Receipt	
_ RUSH* Date Required:	NC	1.7	2,6 (2.7)		1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		7/24	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Production of the second	Y N	(°C)	(N/A)
or rush work, results		<u>— ETA</u>	<u> </u>		1- 1/1/62	****	<u> </u>	5 111	10		(°C)	(N/A)
nailed/faxed by end of busi- ss day on date required)	Other			Re	used coc	receiv	ed on i	6/3/15	vig	YN	(°C)	(N/A)
	(specify)						Maria de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición dela composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición dela composición de la composición dela composición dela composición dela composición dela composición dela composición dela composición dela composición dela composición dela composición dela composición dela composición dela	emacc		YN	Pa(å€)8 o	

Original Copy - Returned w/Report Yellow Copy - Access File Copy Pink Copy - Client Copy

LAB USE O	NLY		Ac	cess	Ana	lytic	al -	Cha	in o	f Cus	stod	v Red	cor	Proje	ict Work Or	030561615 der# <i>758</i>	PRZAS
Sales Order #				°0#						ss Quote		,		7,577	ratory ID:	161 # <u>/OV</u>	000
Company Name:	awfor	of E	nr		Preserv (*see co						T	T			.u.o.y .b.	ACCESS	
Report To:	771	. (	.,,,,	•	Contain	ner Type:	60						-			ANALYTICA	u Ivic
Address:	+15h	<u>κ</u>			(*see co	e company	3				-					7 (IVIC)	IL, INC.
City:	State:	-A v	re .			÷	1,0	1					0	7478 Carl		Phone: (803	3) 781-4243
City: Roan oke Phone: 504-748- Email: D. Shere Project ID: Cloud Sampled By: Petra Sample ID/Description	VA	~	241	011		TASE	3							Irmo, SC 2	www.ax	Fax cs-inc.com	:: 781-4303
Phone: 509-748-	5068 ^{ra}	^{x:} 54	0 - ]	343 -	6250	7 ^V V	28							*Preservative C 0 = None, 1 = H	odes (place corresp CL, 2 = HNO ₃ , 3 = H	ionding # in block abo \$04, 4 = NaOH, 5 = 1 CH:OH, 7 = NaOH/ZnO	ve analysis field): Na:S:O:,
Email: Deishere	crawfa	rd e	nuîi	ronme	unta,	رحقي.	WW	•			8			*Matrix Codes GW = ground w	place corresponding	CH:OH, 7 = NaOH/ZnC code in matrix column ster, DW = drinking wa waste, WO = waste oil	DAC, 8 = HsPO ₄
Project ID: Cloud	·5			***		STED	AM						1 1	Specify in conn.	ienis sucion)		
Sampled By: Petra	-Tec	- h		· · · · · · · · · · · · · · · · · · ·		and:	5+	-						*Program Area Safe Drinking W Wastes (for soils	Codes: CWA = Cle ater Act (for drinking a ground waters and	an Water Act (for wast waters), SHW = Solid waste samples)	tewaters), SDWA = I and Hazardous
Sample ID/Description	Date 1	lime	Type: 1	Matrix: Progra	am TOTAL	† RB	\ <u>X</u>							*Container Typ	o: G = Glass, I	Pastic	
<b>5</b> 0. 4 0	Collected: C		200	see codes) Ares	a containers	6-2-5	8,							(if sample is a	Composite please use sp.	COMMENTS nec below to note start/fina	S ish runes & dures)
mw 22	6/5/15	1140		SW	6	scontainer collected analysis	6										
Field blank	6/5/15	1145	G		6	ontainers collected to per 1	6										
				200000											***************************************	- HELING 2	
														<del></del>			
					-												
					-						-						
					_	O D D D											
						P. S. S. S. S. S. S. S. S. S. S. S. S. S.											35.554.004.0
						of of contraction of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the perio				2000000							
						* of collainen collaced per   per   gralysis											
Turnaround Time:	Project L	ocation:		Relinqu	uished B	y:		R	eceived	By:		Date (mm-dd-yy)		Time (24HR)	Samples Rec'd	Sample Te Receip	mp. Upon
Standard	$\sim$	SC.	9	1	KI	l_	_	10	M	Off	6	15/19	- i	330	YN		
RUSH* *Date Required:		NC	,	an	1		1	(1)	00	1/	1,	15/10	/-	7W)	YN	,	(N/A)
(For rush work, results emailed/faxed by end of busi		Other	( 01	-010	Pag	<del></del>				4		12117	1	100	Y N	3. Y (co)	(N/A)
ness day on date required)	(specify)		ua	uja	Kee	res	1	6/6	15	4a	Hed	C Ey				- (°C)	(N/A)
	(Specify)_			•											N	Page 9 at 92	(N/A)

See Reverse for Terms and Conditions

Original Copy - Returned w/Report Yellow Copy - Access File Copy Pink Copy - Client Copy

Client: Crawford Environmental Services

Project: Clouds

Lab ID: 1506305

Case Narrative

Date:

16-Jun-15

Sample Receiving Nonconformance:

Sample "MW 22" collected 5/28/2015 9:15am was listed on the Chain of Custody (COC) but was not present with samples received 6/3/2015.

Samples "DW 5", "MW 36" and 3 extra Field Blanks were received but were not listed on the COC. Per Angela Martin on 6/4/2015 via email, samples "DW-5" and "MW-36" were analyzed for VOCs and Oxygenates and the extra Field Blanks were placed on hold.

Sample "MW 22" along with sample "Field Blank" were received at the laboratory on 6/8/2015 and were analyzed at the request of the client.

At the client's request, the three samples labeled as "FB EDB" were not analyzed. Page 7 of 7 of the COC was revised and re-submitted via email 6/3/2015. The revised COC was included in the report.

At the client's request, all samples were analyzed for BTEX, MTBE, Naphthalene, tert-Amyl alcohol, tert-Amyl methyl ether, and tert-Butyl alcohol.

Volatile Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 1506305-008A, -013A, -015A, -017A, -033A, -038A, and -063 A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Toluene values for the QC samples 1506305-038AMS/MSD are "E" qualified indicating estimated values over linear calibration range due to the level of target analyte present in the unspiked sample.

Toluene values for the QC samples 1506305-013AMS/MSD are "E" qualified indicating estimated values over linear calibration range due to the level of target analyte present in the unspiked sample.

Client: Crawford Environmental Services Client Sample ID: MW 28

Project Name: Clouds Collection Date: 5/28/2015 8:45:00 AM

Date:

15-Jun-15

Lab ID: 1506305-001 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260I	3		(	SW5030	OB)			
Benzene	BRL		0.30	1.0	ug/L	208405	1	06/05/2015 00:31	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208405	1	06/05/2015 00:31	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208405	1	06/05/2015 00:31	NP
Naphthalene	BRL		0.44	5.0	ug/L	208405	1	06/05/2015 00:31	NP
Toluene	BRL		0.24	1.0	ug/L	208405	1	06/05/2015 00:31	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208405	1	06/05/2015 00:31	NP
Surr: 4-Bromofluorobenzene	92.4		0	70-130	%REC	208405	1	06/05/2015 00:31	NP
Surr: Dibromofluoromethane	91.6		0	70-130	%REC	208405	1	06/05/2015 00:31	NP
Surr: Toluene-d8	90.7		0	70-130	%REC	208405	1	06/05/2015 00:31	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208405	1	06/05/2015 00:31	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208405	1	06/05/2015 00:31	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208405	1	06/05/2015 00:31	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative

Client: Crawford Environmental Services Client Sample ID: MW 27

Project Name: Clouds Collection Date: 5/28/2015 8:30:00 AM

Lab ID: 1506305-002 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208405	1	06/05/2015 00:58	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208405	1	06/05/2015 00:58	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208405	1	06/05/2015 00:58	NP
Naphthalene	BRL		0.44	5.0	ug/L	208405	1	06/05/2015 00:58	NP
Toluene	BRL		0.24	1.0	ug/L	208405	1	06/05/2015 00:58	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208405	1	06/05/2015 00:58	NP
Surr: 4-Bromofluorobenzene	91.2		0	70-130	%REC	208405	1	06/05/2015 00:58	NP
Surr: Dibromofluoromethane	91.7		0	70-130	%REC	208405	1	06/05/2015 00:58	NP
Surr: Toluene-d8	89.7		0	70-130	%REC	208405	1	06/05/2015 00:58	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208405	1	06/05/2015 00:58	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208405	1	06/05/2015 00:58	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208405	1	06/05/2015 00:58	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 12 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: DUP D

Project Name: Clouds Collection Date: 5/29/2015 10:20:00 AM

Lab ID: 1506305-003 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	)B)			
Benzene	BRL		0.30	1.0	ug/L	208405	1	06/05/2015 01:24	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208405	1	06/05/2015 01:24	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208405	1	06/05/2015 01:24	NP
Naphthalene	BRL		0.44	5.0	ug/L	208405	1	06/05/2015 01:24	NP
Toluene	BRL		0.24	1.0	ug/L	208405	1	06/05/2015 01:24	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208405	1	06/05/2015 01:24	NP
Surr: 4-Bromofluorobenzene	86.6		0	70-130	%REC	208405	1	06/05/2015 01:24	NP
Surr: Dibromofluoromethane	91.9		0	70-130	%REC	208405	1	06/05/2015 01:24	NP
Surr: Toluene-d8	90.7		0	70-130	%REC	208405	1	06/05/2015 01:24	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208405	1	06/05/2015 01:24	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208405	1	06/05/2015 01:24	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208405	1	06/05/2015 01:24	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 13 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: DW 7

Project Name: Clouds Collection Date: 5/28/2015 1:45:00 PM

Lab ID: 1506305-004 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	3		(	SW5030	)B)			
Benzene	BRL		0.30	1.0	ug/L	208405	1	06/05/2015 01:51	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208405	1	06/05/2015 01:51	NP
Methyl tert-butyl ether	1.2		0.39	1.0	ug/L	208405	1	06/05/2015 01:51	NP
Naphthalene	BRL		0.44	5.0	ug/L	208405	1	06/05/2015 01:51	NP
Toluene	BRL		0.24	1.0	ug/L	208405	1	06/05/2015 01:51	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208405	1	06/05/2015 01:51	NP
Surr: 4-Bromofluorobenzene	88		0	70-130	%REC	208405	1	06/05/2015 01:51	NP
Surr: Dibromofluoromethane	96.6		0	70-130	%REC	208405	1	06/05/2015 01:51	NP
Surr: Toluene-d8	92.4		0	70-130	%REC	208405	1	06/05/2015 01:51	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208405	1	06/05/2015 01:51	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208405	1	06/05/2015 01:51	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208405	1	06/05/2015 01:51	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 14 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 54

Project Name: Clouds Collection Date: 5/28/2015 3:00:00 PM

Lab ID: 1506305-005 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	BRL		0.30	1.0	ug/L	208405	1	06/05/2015 02:18	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208405	1	06/05/2015 02:18	NP
Methyl tert-butyl ether	6.4		0.39	1.0	ug/L	208405	1	06/05/2015 02:18	NP
Naphthalene	BRL		0.44	5.0	ug/L	208405	1	06/05/2015 02:18	NP
Toluene	0.36	J	0.24	1.0	ug/L	208405	1	06/05/2015 02:18	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208405	1	06/05/2015 02:18	NP
Surr: 4-Bromofluorobenzene	86		0	70-130	%REC	208405	1	06/05/2015 02:18	NP
Surr: Dibromofluoromethane	92.6		0	70-130	%REC	208405	1	06/05/2015 02:18	NP
Surr: Toluene-d8	89.1		0	70-130	%REC	208405	1	06/05/2015 02:18	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	140		29	100	ug/L	208405	1	06/05/2015 02:18	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208405	1	06/05/2015 02:18	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208405	1	06/05/2015 02:18	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 15 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 53

Project Name: Clouds Collection Date: 5/28/2015 3:30:00 PM

Lab ID: 1506305-006 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW5030	0B)			
Benzene	BRL		0.30	1.0	ug/L	208405	1	06/05/2015 02:44	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208405	1	06/05/2015 02:44	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208405	1	06/05/2015 02:44	NP
Naphthalene	BRL		0.44	5.0	ug/L	208405	1	06/05/2015 02:44	NP
Toluene	BRL		0.24	1.0	ug/L	208405	1	06/05/2015 02:44	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208405	1	06/05/2015 02:44	NP
Surr: 4-Bromofluorobenzene	84.7		0	70-130	%REC	208405	1	06/05/2015 02:44	NP
Surr: Dibromofluoromethane	97.8		0	70-130	%REC	208405	1	06/05/2015 02:44	NP
Surr: Toluene-d8	92.3		0	70-130	%REC	208405	1	06/05/2015 02:44	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208405	1	06/05/2015 02:44	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208405	1	06/05/2015 02:44	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208405	1	06/05/2015 02:44	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 16 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 70

Project Name: Clouds Collection Date: 5/28/2015 2:50:00 PM

Lab ID: 1506305-007 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208405	1	06/05/2015 03:11	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208405	1	06/05/2015 03:11	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208405	1	06/05/2015 03:11	NP
Naphthalene	BRL		0.44	5.0	ug/L	208405	1	06/05/2015 03:11	NP
Toluene	BRL		0.24	1.0	ug/L	208405	1	06/05/2015 03:11	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208405	1	06/05/2015 03:11	NP
Surr: 4-Bromofluorobenzene	83.8		0	70-130	%REC	208405	1	06/05/2015 03:11	NP
Surr: Dibromofluoromethane	97.9		0	70-130	%REC	208405	1	06/05/2015 03:11	NP
Surr: Toluene-d8	91.9		0	70-130	%REC	208405	1	06/05/2015 03:11	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208405	1	06/05/2015 03:11	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208405	1	06/05/2015 03:11	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208405	1	06/05/2015 03:11	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 17 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 17

Project Name: Clouds Collection Date: 5/28/2015 7:00:00 AM

Lab ID: 1506305-008 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW5030	)B)			
Benzene	210		15	50	ug/L	208405	50	06/04/2015 21:25	NP
Ethylbenzene	480		14	50	ug/L	208405	50	06/04/2015 21:25	NP
Methyl tert-butyl ether	BRL		20	50	ug/L	208405	50	06/04/2015 21:25	NP
Naphthalene	830		22	250	ug/L	208405	50	06/04/2015 21:25	NP
Toluene	7500		12	50	ug/L	208405	50	06/04/2015 21:25	NP
Xylenes, Total	12000		47	50	ug/L	208405	50	06/04/2015 21:25	NP
Surr: 4-Bromofluorobenzene	94.4		0	70-130	%REC	208405	50	06/04/2015 21:25	NP
Surr: Dibromofluoromethane	88.6		0	70-130	%REC	208405	50	06/04/2015 21:25	NP
Surr: Toluene-d8	90.4		0	70-130	%REC	208405	50	06/04/2015 21:25	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	2200	J	1400	5000	ug/L	208405	50	06/04/2015 21:25	NP
tert-Amyl methyl ether	BRL		130	500	ug/L	208405	50	06/04/2015 21:25	NP
tert-Butyl Alcohol	BRL		1400	5000	ug/L	208405	50	06/04/2015 21:25	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 18 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 8

Project Name: Clouds Collection Date: 5/29/2015 11:15:00 AM

Date:

15-Jun-15

Lab ID: 1506305-009 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW5030	)B)			
Benzene	BRL		0.30	1.0	ug/L	208405	1	06/05/2015 03:37	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208405	1	06/05/2015 03:37	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208405	1	06/05/2015 03:37	NP
Naphthalene	BRL		0.44	5.0	ug/L	208405	1	06/05/2015 03:37	NP
Toluene	BRL		0.24	1.0	ug/L	208405	1	06/05/2015 03:37	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208405	1	06/05/2015 03:37	NP
Surr: 4-Bromofluorobenzene	82.2		0	70-130	%REC	208405	1	06/05/2015 03:37	NP
Surr: Dibromofluoromethane	100		0	70-130	%REC	208405	1	06/05/2015 03:37	NP
Surr: Toluene-d8	94.5		0	70-130	%REC	208405	1	06/05/2015 03:37	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208405	1	06/05/2015 03:37	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208405	1	06/05/2015 03:37	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208405	1	06/05/2015 03:37	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative

Client: Crawford Environmental Services Client Sample ID: DW 2

Project Name: Clouds Collection Date: 5/29/2015 10:00:00 AM

Lab ID: 1506305-010 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208405	1	06/05/2015 04:04	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208405	1	06/05/2015 04:04	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208405	1	06/05/2015 04:04	NP
Naphthalene	BRL		0.44	5.0	ug/L	208405	1	06/05/2015 04:04	NP
Toluene	BRL		0.24	1.0	ug/L	208405	1	06/05/2015 04:04	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208405	1	06/05/2015 04:04	NP
Surr: 4-Bromofluorobenzene	80.9		0	70-130	%REC	208405	1	06/05/2015 04:04	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	208405	1	06/05/2015 04:04	NP
Surr: Toluene-d8	95.5		0	70-130	%REC	208405	1	06/05/2015 04:04	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208405	1	06/05/2015 04:04	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208405	1	06/05/2015 04:04	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208405	1	06/05/2015 04:04	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 20 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: DW 9

Project Name: Clouds Collection Date: 5/28/2015 2:15:00 PM

Lab ID: 1506305-011 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208405	1	06/05/2015 04:30	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208405	1	06/05/2015 04:30	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208405	1	06/05/2015 04:30	NP
Naphthalene	BRL		0.44	5.0	ug/L	208405	1	06/05/2015 04:30	NP
Toluene	BRL		0.24	1.0	ug/L	208405	1	06/05/2015 04:30	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208405	1	06/05/2015 04:30	NP
Surr: 4-Bromofluorobenzene	82.9		0	70-130	%REC	208405	1	06/05/2015 04:30	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	208405	1	06/05/2015 04:30	NP
Surr: Toluene-d8	96.1		0	70-130	%REC	208405	1	06/05/2015 04:30	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208405	1	06/05/2015 04:30	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208405	1	06/05/2015 04:30	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208405	1	06/05/2015 04:30	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 21 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: DW 1

Project Name: Clouds Collection Date: 5/29/2015 9:30:00 AM

Lab ID: 1506305-012 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	)B)			
Benzene	BRL		0.30	1.0	ug/L	208405	1	06/05/2015 04:57	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208405	1	06/05/2015 04:57	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208405	1	06/05/2015 04:57	NP
Naphthalene	BRL		0.44	5.0	ug/L	208405	1	06/05/2015 04:57	NP
Toluene	BRL		0.24	1.0	ug/L	208405	1	06/05/2015 04:57	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208405	1	06/05/2015 04:57	NP
Surr: 4-Bromofluorobenzene	85.2		0	70-130	%REC	208405	1	06/05/2015 04:57	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	208405	1	06/05/2015 04:57	NP
Surr: Toluene-d8	93.9		0	70-130	%REC	208405	1	06/05/2015 04:57	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208405	1	06/05/2015 04:57	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208405	1	06/05/2015 04:57	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208405	1	06/05/2015 04:57	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 22 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 19

Project Name: Clouds Collection Date: 5/28/2015 12:00:00 PM

Lab ID: 1506305-013 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW5030	<b>OB</b> )			
Benzene	2100		15	50	ug/L	208405	50	06/04/2015 21:52	NP
Ethylbenzene	330		14	50	ug/L	208405	50	06/04/2015 21:52	NP
Methyl tert-butyl ether	BRL		20	50	ug/L	208405	50	06/04/2015 21:52	NP
Naphthalene	1200		22	250	ug/L	208405	50	06/04/2015 21:52	NP
Toluene	17000		120	500	ug/L	208405	500	06/09/2015 13:47	NP
Xylenes, Total	16000		47	50	ug/L	208405	50	06/04/2015 21:52	NP
Surr: 4-Bromofluorobenzene	88.6		0	70-130	%REC	208405	500	06/09/2015 13:47	NP
Surr: 4-Bromofluorobenzene	92.4		0	70-130	%REC	208405	50	06/04/2015 21:52	NP
Surr: Dibromofluoromethane	88.2		0	70-130	%REC	208405	500	06/09/2015 13:47	NP
Surr: Dibromofluoromethane	88.3		0	70-130	%REC	208405	50	06/04/2015 21:52	NP
Surr: Toluene-d8	84.3		0	70-130	%REC	208405	500	06/09/2015 13:47	NP
Surr: Toluene-d8	91.8		0	70-130	%REC	208405	50	06/04/2015 21:52	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	6200		1400	5000	ug/L	208405	50	06/04/2015 21:52	NP
tert-Amyl methyl ether	BRL		130	500	ug/L	208405	50	06/04/2015 21:52	NP
tert-Butyl Alcohol	BRL		1400	5000	ug/L	208405	50	06/04/2015 21:52	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 23 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 34

Project Name: Clouds Collection Date: 5/28/2015 11:00:00 AM

Lab ID: 1506305-014 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW5030	)B)			
Benzene	BRL		0.30	1.0	ug/L	208405	1	06/05/2015 05:23	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208405	1	06/05/2015 05:23	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208405	1	06/05/2015 05:23	NP
Naphthalene	BRL		0.44	5.0	ug/L	208405	1	06/05/2015 05:23	NP
Toluene	1.1		0.24	1.0	ug/L	208405	1	06/05/2015 05:23	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208405	1	06/05/2015 05:23	NP
Surr: 4-Bromofluorobenzene	84		0	70-130	%REC	208405	1	06/05/2015 05:23	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	208405	1	06/05/2015 05:23	NP
Surr: Toluene-d8	94.8		0	70-130	%REC	208405	1	06/05/2015 05:23	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208405	1	06/05/2015 05:23	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208405	1	06/05/2015 05:23	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208405	1	06/05/2015 05:23	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 24 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 35

Project Name: Clouds Collection Date: 5/28/2015 11:15:00 AM

Lab ID: 1506305-015 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW5030	0B)			
Benzene	3300		15	50	ug/L	208405	50	06/04/2015 23:11	NP
Ethylbenzene	1500		14	50	ug/L	208405	50	06/04/2015 23:11	NP
Methyl tert-butyl ether	BRL		20	50	ug/L	208405	50	06/04/2015 23:11	NP
Naphthalene	640		22	250	ug/L	208405	50	06/04/2015 23:11	NP
Toluene	5100		12	50	ug/L	208405	50	06/04/2015 23:11	NP
Xylenes, Total	4700		47	50	ug/L	208405	50	06/04/2015 23:11	NP
Surr: 4-Bromofluorobenzene	93.7		0	70-130	%REC	208405	50	06/04/2015 23:11	NP
Surr: Dibromofluoromethane	88.7		0	70-130	%REC	208405	50	06/04/2015 23:11	NP
Surr: Toluene-d8	88.9		0	70-130	%REC	208405	50	06/04/2015 23:11	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	4400	J	1400	5000	ug/L	208405	50	06/04/2015 23:11	NP
tert-Amyl methyl ether	BRL		130	500	ug/L	208405	50	06/04/2015 23:11	NP
tert-Butyl Alcohol	BRL		1400	5000	ug/L	208405	50	06/04/2015 23:11	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 25 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 30

Project Name: Clouds Collection Date: 5/28/2015 10:00:00 AM

Lab ID: 1506305-016 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	<b>OB</b> )			
Benzene	BRL		0.30	1.0	ug/L	208405	1	06/05/2015 05:50	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208405	1	06/05/2015 05:50	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208405	1	06/05/2015 05:50	NP
Naphthalene	BRL		0.44	5.0	ug/L	208405	1	06/05/2015 05:50	NP
Toluene	BRL		0.24	1.0	ug/L	208405	1	06/05/2015 05:50	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208405	1	06/05/2015 05:50	NP
Surr: 4-Bromofluorobenzene	81.8		0	70-130	%REC	208405	1	06/05/2015 05:50	NP
Surr: Dibromofluoromethane	108		0	70-130	%REC	208405	1	06/05/2015 05:50	NP
Surr: Toluene-d8	96.2		0	70-130	%REC	208405	1	06/05/2015 05:50	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208405	1	06/05/2015 05:50	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208405	1	06/05/2015 05:50	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208405	1	06/05/2015 05:50	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 26 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 9

Project Name: Clouds Collection Date: 5/28/2015 2:45:00 PM

Lab ID: 1506305-017 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW5030	)B)			
Benzene	250		15	50	ug/L	208405	50	06/04/2015 23:38	NP
Ethylbenzene	1200		14	50	ug/L	208405	50	06/04/2015 23:38	NP
Methyl tert-butyl ether	BRL		20	50	ug/L	208405	50	06/04/2015 23:38	NP
Naphthalene	480		22	250	ug/L	208405	50	06/04/2015 23:38	NP
Toluene	5700		12	50	ug/L	208405	50	06/04/2015 23:38	NP
Xylenes, Total	8200		47	50	ug/L	208405	50	06/04/2015 23:38	NP
Surr: 4-Bromofluorobenzene	92.2		0	70-130	%REC	208405	50	06/04/2015 23:38	NP
Surr: Dibromofluoromethane	88.1		0	70-130	%REC	208405	50	06/04/2015 23:38	NP
Surr: Toluene-d8	90.5		0	70-130	%REC	208405	50	06/04/2015 23:38	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		1400	5000	ug/L	208405	50	06/04/2015 23:38	NP
tert-Amyl methyl ether	BRL		130	500	ug/L	208405	50	06/04/2015 23:38	NP
tert-Butyl Alcohol	BRL		1400	5000	ug/L	208405	50	06/04/2015 23:38	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 27 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: RW-1R

Project Name: Clouds Collection Date: 5/28/2015 1:00:00 PM

Lab ID: 1506305-018 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	520		15	50	ug/L	208405	50	06/05/2015 00:04	NP
Ethylbenzene	250		14	50	ug/L	208405	50	06/05/2015 00:04	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208405	1	06/10/2015 04:28	NP
Naphthalene	370		22	250	ug/L	208405	50	06/05/2015 00:04	NP
Toluene	3400		12	50	ug/L	208405	50	06/05/2015 00:04	NP
Xylenes, Total	7500		47	50	ug/L	208405	50	06/05/2015 00:04	NP
Surr: 4-Bromofluorobenzene	92.4		0	70-130	%REC	208405	50	06/05/2015 00:04	NP
Surr: 4-Bromofluorobenzene	109		0	70-130	%REC	208405	1	06/10/2015 04:28	NP
Surr: Dibromofluoromethane	88.2		0	70-130	%REC	208405	50	06/05/2015 00:04	NP
Surr: Dibromofluoromethane	79.6		0	70-130	%REC	208405	1	06/10/2015 04:28	NP
Surr: Toluene-d8	90.2		0	70-130	%REC	208405	50	06/05/2015 00:04	NP
Surr: Toluene-d8	83.1		0	70-130	%REC	208405	1	06/10/2015 04:28	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	1600		29	100	ug/L	208405	1	06/10/2015 04:28	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208405	1	06/10/2015 04:28	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208405	1	06/10/2015 04:28	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 28 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 48

Project Name: Clouds Collection Date: 5/29/2015 11:00:00 AM

Lab ID: 1506305-019 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208405	1	06/05/2015 06:16	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208405	1	06/05/2015 06:16	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208405	1	06/05/2015 06:16	NP
Naphthalene	BRL		0.44	5.0	ug/L	208405	1	06/05/2015 06:16	NP
Toluene	BRL		0.24	1.0	ug/L	208405	1	06/05/2015 06:16	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208405	1	06/05/2015 06:16	NP
Surr: 4-Bromofluorobenzene	82.5		0	70-130	%REC	208405	1	06/05/2015 06:16	NP
Surr: Dibromofluoromethane	107		0	70-130	%REC	208405	1	06/05/2015 06:16	NP
Surr: Toluene-d8	98.6		0	70-130	%REC	208405	1	06/05/2015 06:16	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208405	1	06/05/2015 06:16	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208405	1	06/05/2015 06:16	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208405	1	06/05/2015 06:16	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 29 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 33

Project Name: Clouds Collection Date: 5/28/2015 10:30:00 AM

Lab ID: 1506305-020 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208405	1	06/05/2015 06:43	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208405	1	06/05/2015 06:43	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208405	1	06/05/2015 06:43	NP
Naphthalene	BRL		0.44	5.0	ug/L	208405	1	06/05/2015 06:43	NP
Toluene	BRL		0.24	1.0	ug/L	208405	1	06/05/2015 06:43	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208405	1	06/05/2015 06:43	NP
Surr: 4-Bromofluorobenzene	79.8		0	70-130	%REC	208405	1	06/05/2015 06:43	NP
Surr: Dibromofluoromethane	102		0	70-130	%REC	208405	1	06/05/2015 06:43	NP
Surr: Toluene-d8	95.1		0	70-130	%REC	208405	1	06/05/2015 06:43	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	29	J	29	100	ug/L	208405	1	06/05/2015 06:43	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208405	1	06/05/2015 06:43	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208405	1	06/05/2015 06:43	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 30 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW-5aR

Project Name: Clouds Collection Date: 5/28/2015 9:30:00 AM

Lab ID: 1506305-021 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	2500		15	50	ug/L	208475	50	06/05/2015 11:16	NP
Ethylbenzene	280		2.9	10	ug/L	208475	10	06/09/2015 14:41	NP
Methyl tert-butyl ether	43		0.39	1.0	ug/L	208475	1	06/10/2015 04:55	NP
Naphthalene	460		4.4	50	ug/L	208475	10	06/09/2015 14:41	NP
Toluene	1200		12	50	ug/L	208475	50	06/05/2015 11:16	NP
Xylenes, Total	1300		47	50	ug/L	208475	50	06/05/2015 11:16	NP
Surr: 4-Bromofluorobenzene	89.5		0	70-130	%REC	208475	50	06/05/2015 11:16	NP
Surr: 4-Bromofluorobenzene	92		0	70-130	%REC	208475	10	06/09/2015 14:41	NP
Surr: 4-Bromofluorobenzene	106		0	70-130	%REC	208475	1	06/10/2015 04:55	NP
Surr: Dibromofluoromethane	96.3		0	70-130	%REC	208475	50	06/05/2015 11:16	NP
Surr: Dibromofluoromethane	81.7		0	70-130	%REC	208475	1	06/10/2015 04:55	NP
Surr: Dibromofluoromethane	86.3		0	70-130	%REC	208475	10	06/09/2015 14:41	NP
Surr: Toluene-d8	92.7		0	70-130	%REC	208475	50	06/05/2015 11:16	NP
Surr: Toluene-d8	85.2		0	70-130	%REC	208475	10	06/09/2015 14:41	NP
Surr: Toluene-d8	86.3		0	70-130	%REC	208475	1	06/10/2015 04:55	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	650		29	100	ug/L	208475	1	06/10/2015 04:55	NP
tert-Amyl methyl ether	52		2.5	10	ug/L	208475	1	06/10/2015 04:55	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208475	1	06/10/2015 04:55	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 31 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 4

Project Name: Clouds Collection Date: 5/29/2015 9:00:00 AM

Lab ID: 1506305-022 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	<b>OB</b> )			
Benzene	BRL		0.30	1.0	ug/L	208475	1	06/05/2015 17:58	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208475	1	06/05/2015 17:58	NP
Methyl tert-butyl ether	1.9		0.39	1.0	ug/L	208475	1	06/05/2015 17:58	NP
Naphthalene	1.6	J	0.44	5.0	ug/L	208475	1	06/05/2015 17:58	NP
Toluene	BRL		0.24	1.0	ug/L	208475	1	06/05/2015 17:58	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208475	1	06/05/2015 17:58	NP
Surr: 4-Bromofluorobenzene	87.1		0	70-130	%REC	208475	1	06/05/2015 17:58	NP
Surr: Dibromofluoromethane	92.1		0	70-130	%REC	208475	1	06/05/2015 17:58	NP
Surr: Toluene-d8	93		0	70-130	%REC	208475	1	06/05/2015 17:58	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208475	1	06/05/2015 17:58	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208475	1	06/05/2015 17:58	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208475	1	06/05/2015 17:58	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 32 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 11

Project Name: Clouds Collection Date: 5/29/2015 8:15:00 AM

Lab ID: 1506305-023 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	0B)			
Benzene	0.51	J	0.30	1.0	ug/L	208475	1	06/05/2015 18:25	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208475	1	06/05/2015 18:25	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208475	1	06/05/2015 18:25	NP
Naphthalene	6.6		0.44	5.0	ug/L	208475	1	06/05/2015 18:25	NP
Toluene	BRL		0.24	1.0	ug/L	208475	1	06/05/2015 18:25	NP
Xylenes, Total	3.8		0.93	1.0	ug/L	208475	1	06/05/2015 18:25	NP
Surr: 4-Bromofluorobenzene	88.1		0	70-130	%REC	208475	1	06/05/2015 18:25	NP
Surr: Dibromofluoromethane	98.6		0	70-130	%REC	208475	1	06/05/2015 18:25	NP
Surr: Toluene-d8	95		0	70-130	%REC	208475	1	06/05/2015 18:25	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	50	J	29	100	ug/L	208475	1	06/05/2015 18:25	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208475	1	06/05/2015 18:25	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208475	1	06/05/2015 18:25	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 33 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 6

Project Name: Clouds Collection Date: 5/29/2015 10:15:00 AM

Lab ID: 1506305-024 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW5030	0B)			
Benzene	BRL		0.30	1.0	ug/L	208475	1	06/05/2015 18:51	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208475	1	06/05/2015 18:51	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208475	1	06/05/2015 18:51	NP
Naphthalene	BRL		0.44	5.0	ug/L	208475	1	06/05/2015 18:51	NP
Toluene	BRL		0.24	1.0	ug/L	208475	1	06/05/2015 18:51	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208475	1	06/05/2015 18:51	NP
Surr: 4-Bromofluorobenzene	84.8		0	70-130	%REC	208475	1	06/05/2015 18:51	NP
Surr: Dibromofluoromethane	96.2		0	70-130	%REC	208475	1	06/05/2015 18:51	NP
Surr: Toluene-d8	94.3		0	70-130	%REC	208475	1	06/05/2015 18:51	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208475	1	06/05/2015 18:51	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208475	1	06/05/2015 18:51	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208475	1	06/05/2015 18:51	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 34 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: DW 8

Project Name: Clouds Collection Date: 5/29/2015 11:30:00 AM

Lab ID: 1506305-025 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW5030	0B)			
Benzene	BRL		0.30	1.0	ug/L	208475	1	06/05/2015 19:18	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208475	1	06/05/2015 19:18	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208475	1	06/05/2015 19:18	NP
Naphthalene	BRL		0.44	5.0	ug/L	208475	1	06/05/2015 19:18	NP
Toluene	BRL		0.24	1.0	ug/L	208475	1	06/05/2015 19:18	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208475	1	06/05/2015 19:18	NP
Surr: 4-Bromofluorobenzene	84.3		0	70-130	%REC	208475	1	06/05/2015 19:18	NP
Surr: Dibromofluoromethane	98		0	70-130	%REC	208475	1	06/05/2015 19:18	NP
Surr: Toluene-d8	93.8		0	70-130	%REC	208475	1	06/05/2015 19:18	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208475	1	06/05/2015 19:18	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208475	1	06/05/2015 19:18	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208475	1	06/05/2015 19:18	NP

Qualifiers: * Value exce

* Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 35 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: DUP A

Project Name: Clouds Collection Date: 5/28/2015 1:50:00 PM

Lab ID: 1506305-026 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208475	1	06/05/2015 19:45	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208475	1	06/05/2015 19:45	NP
Methyl tert-butyl ether	1.2		0.39	1.0	ug/L	208475	1	06/05/2015 19:45	NP
Naphthalene	BRL		0.44	5.0	ug/L	208475	1	06/05/2015 19:45	NP
Toluene	BRL		0.24	1.0	ug/L	208475	1	06/05/2015 19:45	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208475	1	06/05/2015 19:45	NP
Surr: 4-Bromofluorobenzene	81.1		0	70-130	%REC	208475	1	06/05/2015 19:45	NP
Surr: Dibromofluoromethane	102		0	70-130	%REC	208475	1	06/05/2015 19:45	NP
Surr: Toluene-d8	93.2		0	70-130	%REC	208475	1	06/05/2015 19:45	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208475	1	06/05/2015 19:45	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208475	1	06/05/2015 19:45	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208475	1	06/05/2015 19:45	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 36 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 12

Project Name: Clouds Collection Date: 5/28/2015 1:30:00 PM

Lab ID: 1506305-027 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	53		0.30	1.0	ug/L	208475	1	06/09/2015 04:05	NP
Ethylbenzene	430		2.9	10	ug/L	208475	10	06/05/2015 16:38	NP
Methyl tert-butyl ether	22		0.39	1.0	ug/L	208475	1	06/09/2015 04:05	NP
Naphthalene	44		0.44	5.0	ug/L	208475	1	06/09/2015 04:05	NP
Toluene	2.7		0.24	1.0	ug/L	208475	1	06/09/2015 04:05	NP
Xylenes, Total	14		0.93	1.0	ug/L	208475	1	06/09/2015 04:05	NP
Surr: 4-Bromofluorobenzene	86.4		0	70-130	%REC	208475	10	06/05/2015 16:38	NP
Surr: 4-Bromofluorobenzene	90.4		0	70-130	%REC	208475	1	06/09/2015 04:05	NP
Surr: Dibromofluoromethane	84.9		0	70-130	%REC	208475	1	06/09/2015 04:05	NP
Surr: Dibromofluoromethane	89.6		0	70-130	%REC	208475	10	06/05/2015 16:38	NP
Surr: Toluene-d8	88.2		0	70-130	%REC	208475	1	06/09/2015 04:05	NP
Surr: Toluene-d8	93.2		0	70-130	%REC	208475	10	06/05/2015 16:38	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	2300		29	100	ug/L	208475	1	06/09/2015 04:05	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208475	1	06/09/2015 04:05	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208475	1	06/09/2015 04:05	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 37 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 37

Project Name: Clouds Collection Date: 5/28/2015 11:45:00 AM

Lab ID: 1506305-028 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208475	1	06/05/2015 20:11	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208475	1	06/05/2015 20:11	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208475	1	06/05/2015 20:11	NP
Naphthalene	BRL		0.44	5.0	ug/L	208475	1	06/05/2015 20:11	NP
Toluene	BRL		0.24	1.0	ug/L	208475	1	06/05/2015 20:11	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208475	1	06/05/2015 20:11	NP
Surr: 4-Bromofluorobenzene	81.2		0	70-130	%REC	208475	1	06/05/2015 20:11	NP
Surr: Dibromofluoromethane	96.8		0	70-130	%REC	208475	1	06/05/2015 20:11	NP
Surr: Toluene-d8	93.5		0	70-130	%REC	208475	1	06/05/2015 20:11	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208475	1	06/05/2015 20:11	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208475	1	06/05/2015 20:11	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208475	1	06/05/2015 20:11	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 38 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 18

Project Name: Clouds Collection Date: 5/28/2015 10:45:00 AM

Lab ID: 1506305-029 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	0B)			
Benzene	970		3.0	10	ug/L	208475	10	06/05/2015 17:04	NP
Ethylbenzene	180		2.9	10	ug/L	208475	10	06/05/2015 17:04	NP
Methyl tert-butyl ether	230		3.9	10	ug/L	208475	10	06/05/2015 17:04	NP
Naphthalene	180		4.4	50	ug/L	208475	10	06/05/2015 17:04	NP
Toluene	2500		12	50	ug/L	208475	50	06/09/2015 14:15	NP
Xylenes, Total	4100		9.3	10	ug/L	208475	10	06/05/2015 17:04	NP
Surr: 4-Bromofluorobenzene	90.2		0	70-130	%REC	208475	50	06/09/2015 14:15	NP
Surr: 4-Bromofluorobenzene	93.1		0	70-130	%REC	208475	10	06/05/2015 17:04	NP
Surr: Dibromofluoromethane	89.4		0	70-130	%REC	208475	50	06/09/2015 14:15	NP
Surr: Dibromofluoromethane	90.4		0	70-130	%REC	208475	10	06/05/2015 17:04	NP
Surr: Toluene-d8	86.7		0	70-130	%REC	208475	50	06/09/2015 14:15	NP
Surr: Toluene-d8	94.9		0	70-130	%REC	208475	10	06/05/2015 17:04	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	3000		29	100	ug/L	208475	1	06/10/2015 04:02	NP
tert-Amyl methyl ether	33		2.5	10	ug/L	208475	1	06/10/2015 04:02	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208475	1	06/10/2015 04:02	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 39 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 32

Project Name: Clouds Collection Date: 5/28/2015 9:45:00 AM

Lab ID: 1506305-030 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208475	1	06/08/2015 14:45	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208475	1	06/08/2015 14:45	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208475	1	06/08/2015 14:45	NP
Naphthalene	BRL		0.44	5.0	ug/L	208475	1	06/08/2015 14:45	NP
Toluene	BRL		0.24	1.0	ug/L	208475	1	06/08/2015 14:45	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208475	1	06/08/2015 14:45	NP
Surr: 4-Bromofluorobenzene	76		0	70-130	%REC	208475	1	06/08/2015 14:45	NP
Surr: Dibromofluoromethane	96.1		0	70-130	%REC	208475	1	06/08/2015 14:45	NP
Surr: Toluene-d8	90.5		0	70-130	%REC	208475	1	06/08/2015 14:45	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208475	1	06/08/2015 14:45	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208475	1	06/08/2015 14:45	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208475	1	06/08/2015 14:45	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 40 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 10

Project Name: Clouds Collection Date: 5/28/2015 2:30:00 PM

Lab ID: 1506305-031 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	0B)			
Benzene	66		0.30	1.0	ug/L	208475	1	06/09/2015 04:31	NP
Ethylbenzene	67		0.29	1.0	ug/L	208475	1	06/09/2015 04:31	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208475	1	06/09/2015 04:31	NP
Naphthalene	370		4.4	50	ug/L	208475	10	06/09/2015 13:21	NP
Toluene	76		0.24	1.0	ug/L	208475	1	06/09/2015 04:31	NP
Xylenes, Total	860		9.3	10	ug/L	208475	10	06/09/2015 13:21	NP
Surr: 4-Bromofluorobenzene	88.6		0	70-130	%REC	208475	10	06/09/2015 13:21	NP
Surr: 4-Bromofluorobenzene	93.1		0	70-130	%REC	208475	1	06/09/2015 04:31	NP
Surr: Dibromofluoromethane	83.5		0	70-130	%REC	208475	1	06/09/2015 04:31	NP
Surr: Dibromofluoromethane	86.5		0	70-130	%REC	208475	10	06/09/2015 13:21	NP
Surr: Toluene-d8	84.9		0	70-130	%REC	208475	10	06/09/2015 13:21	NP
Surr: Toluene-d8	88.4		0	70-130	%REC	208475	1	06/09/2015 04:31	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	45	J	29	100	ug/L	208475	1	06/09/2015 04:31	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208475	1	06/09/2015 04:31	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208475	1	06/09/2015 04:31	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 41 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: SW 1

Project Name: Clouds Collection Date: 5/28/2015 1:15:00 PM

Lab ID: 1506305-032 Matrix: Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	0B)			
Benzene	230		3.0	10	ug/L	208475	10	06/09/2015 15:08	NP
Ethylbenzene	89		0.29	1.0	ug/L	208475	1	06/08/2015 15:11	NP
Methyl tert-butyl ether	30		0.39	1.0	ug/L	208475	1	06/08/2015 15:11	NP
Naphthalene	24		0.44	5.0	ug/L	208475	1	06/08/2015 15:11	NP
Toluene	18		0.24	1.0	ug/L	208475	1	06/08/2015 15:11	NP
Xylenes, Total	160		0.93	1.0	ug/L	208475	1	06/08/2015 15:11	NP
Surr: 4-Bromofluorobenzene	82.1		0	70-130	%REC	208475	1	06/08/2015 15:11	NP
Surr: 4-Bromofluorobenzene	89.4		0	70-130	%REC	208475	10	06/09/2015 15:08	NP
Surr: Dibromofluoromethane	87.1		0	70-130	%REC	208475	10	06/09/2015 15:08	NP
Surr: Dibromofluoromethane	92.4		0	70-130	%REC	208475	1	06/08/2015 15:11	NP
Surr: Toluene-d8	84		0	70-130	%REC	208475	10	06/09/2015 15:08	NP
Surr: Toluene-d8	89.7		0	70-130	%REC	208475	1	06/08/2015 15:11	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	590		29	100	ug/L	208475	1	06/08/2015 15:11	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208475	1	06/08/2015 15:11	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208475	1	06/08/2015 15:11	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 42 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 23

Project Name: Clouds Collection Date: 5/28/2015 12:15:00 PM

Lab ID: 1506305-033 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW5030	)B)			
Benzene	570		15	50	ug/L	208475	50	06/05/2015 15:44	NP
Ethylbenzene	89		14	50	ug/L	208475	50	06/05/2015 15:44	NP
Methyl tert-butyl ether	BRL		20	50	ug/L	208475	50	06/05/2015 15:44	NP
Naphthalene	660		22	250	ug/L	208475	50	06/05/2015 15:44	NP
Toluene	1500		12	50	ug/L	208475	50	06/05/2015 15:44	NP
Xylenes, Total	8300		47	50	ug/L	208475	50	06/05/2015 15:44	NP
Surr: 4-Bromofluorobenzene	90.2		0	70-130	%REC	208475	50	06/05/2015 15:44	NP
Surr: Dibromofluoromethane	98.3		0	70-130	%REC	208475	50	06/05/2015 15:44	NP
Surr: Toluene-d8	95.4		0	70-130	%REC	208475	50	06/05/2015 15:44	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		1400	5000	ug/L	208475	50	06/05/2015 15:44	NP
tert-Amyl methyl ether	BRL		130	500	ug/L	208475	50	06/05/2015 15:44	NP
tert-Butyl Alcohol	BRL		1400	5000	ug/L	208475	50	06/05/2015 15:44	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 43 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 46

Project Name: Clouds Collection Date: 5/28/2015 7:40:00 AM

Lab ID: 1506305-034 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	BRL		0.30	1.0	ug/L	208475	1	06/08/2015 15:38	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208475	1	06/08/2015 15:38	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208475	1	06/08/2015 15:38	NP
Naphthalene	1.0	J	0.44	5.0	ug/L	208475	1	06/08/2015 15:38	NP
Toluene	BRL		0.24	1.0	ug/L	208475	1	06/08/2015 15:38	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208475	1	06/08/2015 15:38	NP
Surr: 4-Bromofluorobenzene	75.1		0	70-130	%REC	208475	1	06/08/2015 15:38	NP
Surr: Dibromofluoromethane	97.5		0	70-130	%REC	208475	1	06/08/2015 15:38	NP
Surr: Toluene-d8	91.7		0	70-130	%REC	208475	1	06/08/2015 15:38	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208475	1	06/08/2015 15:38	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208475	1	06/08/2015 15:38	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208475	1	06/08/2015 15:38	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 44 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 25

Project Name: Clouds Collection Date: 5/28/2015 9:00:00 AM

Lab ID: 1506305-035 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	<b>OB</b> )			
Benzene	29		0.30	1.0	ug/L	208475	1	06/09/2015 04:58	NP
Ethylbenzene	190		0.29	1.0	ug/L	208475	1	06/09/2015 04:58	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208475	1	06/09/2015 04:58	NP
Naphthalene	560		4.4	50	ug/L	208475	10	06/05/2015 17:31	NP
Toluene	140		0.24	1.0	ug/L	208475	1	06/09/2015 04:58	NP
Xylenes, Total	3000		9.3	10	ug/L	208475	10	06/05/2015 17:31	NP
Surr: 4-Bromofluorobenzene	92.4		0	70-130	%REC	208475	10	06/05/2015 17:31	NP
Surr: 4-Bromofluorobenzene	97.8		0	70-130	%REC	208475	1	06/09/2015 04:58	NP
Surr: Dibromofluoromethane	81.9		0	70-130	%REC	208475	1	06/09/2015 04:58	NP
Surr: Dibromofluoromethane	89		0	70-130	%REC	208475	10	06/05/2015 17:31	NP
Surr: Toluene-d8	84.9		0	70-130	%REC	208475	1	06/09/2015 04:58	NP
Surr: Toluene-d8	92.3		0	70-130	%REC	208475	10	06/05/2015 17:31	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	430		29	100	ug/L	208475	1	06/09/2015 04:58	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208475	1	06/09/2015 04:58	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208475	1	06/09/2015 04:58	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 45 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 43

Project Name: Clouds Collection Date: 5/28/2015 7:30:00 AM

Lab ID: 1506305-036 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208475	1	06/08/2015 16:05	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208475	1	06/08/2015 16:05	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208475	1	06/08/2015 16:05	NP
Naphthalene	BRL		0.44	5.0	ug/L	208475	1	06/08/2015 16:05	NP
Toluene	BRL		0.24	1.0	ug/L	208475	1	06/08/2015 16:05	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208475	1	06/08/2015 16:05	NP
Surr: 4-Bromofluorobenzene	73.3		0	70-130	%REC	208475	1	06/08/2015 16:05	NP
Surr: Dibromofluoromethane	95.8		0	70-130	%REC	208475	1	06/08/2015 16:05	NP
Surr: Toluene-d8	89.1		0	70-130	%REC	208475	1	06/08/2015 16:05	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208475	1	06/08/2015 16:05	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208475	1	06/08/2015 16:05	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208475	1	06/08/2015 16:05	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 46 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 44

Project Name: Clouds Collection Date: 5/28/2015 7:20:00 AM

Lab ID: 1506305-037 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208475	1	06/08/2015 16:31	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208475	1	06/08/2015 16:31	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208475	1	06/08/2015 16:31	NP
Naphthalene	BRL		0.44	5.0	ug/L	208475	1	06/08/2015 16:31	NP
Toluene	BRL		0.24	1.0	ug/L	208475	1	06/08/2015 16:31	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208475	1	06/08/2015 16:31	NP
Surr: 4-Bromofluorobenzene	76.7		0	70-130	%REC	208475	1	06/08/2015 16:31	NP
Surr: Dibromofluoromethane	97.4		0	70-130	%REC	208475	1	06/08/2015 16:31	NP
Surr: Toluene-d8	89.2		0	70-130	%REC	208475	1	06/08/2015 16:31	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208475	1	06/08/2015 16:31	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208475	1	06/08/2015 16:31	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208475	1	06/08/2015 16:31	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 47 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 22

Project Name: Clouds Collection Date: 6/5/2015 11:40:00 AM

Lab ID: 1506305-038 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW5030	)B)			
Benzene	4800		30	100	ug/L	208594	100	06/10/2015 01:22	NP
Ethylbenzene	760		29	100	ug/L	208594	100	06/10/2015 01:22	NP
Methyl tert-butyl ether	BRL		39	100	ug/L	208594	100	06/10/2015 01:22	NP
Naphthalene	840		44	500	ug/L	208594	100	06/10/2015 01:22	NP
Toluene	16000		24	100	ug/L	208594	100	06/10/2015 01:22	NP
Xylenes, Total	26000		93	100	ug/L	208594	100	06/10/2015 01:22	NP
Surr: 4-Bromofluorobenzene	89.7		0	70-130	%REC	208594	100	06/10/2015 01:22	NP
Surr: Dibromofluoromethane	98.6		0	70-130	%REC	208594	100	06/10/2015 01:22	NP
Surr: Toluene-d8	89.3		0	70-130	%REC	208594	100	06/10/2015 01:22	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		2900	10000	ug/L	208594	100	06/10/2015 01:22	NP
tert-Amyl methyl ether	BRL		250	1000	ug/L	208594	100	06/10/2015 01:22	NP
tert-Butyl Alcohol	BRL		2800	10000	ug/L	208594	100	06/10/2015 01:22	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 48 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 45

Project Name: Clouds Collection Date: 5/28/2015 7:10:00 AM

Lab ID: 1506305-039 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	3		(	SW5030	0B)			
Benzene	BRL		0.30	1.0	ug/L	208475	1	06/08/2015 16:58	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208475	1	06/08/2015 16:58	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208475	1	06/08/2015 16:58	NP
Naphthalene	BRL		0.44	5.0	ug/L	208475	1	06/08/2015 16:58	NP
Toluene	BRL		0.24	1.0	ug/L	208475	1	06/08/2015 16:58	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208475	1	06/08/2015 16:58	NP
Surr: 4-Bromofluorobenzene	73.6		0	70-130	%REC	208475	1	06/08/2015 16:58	NP
Surr: Dibromofluoromethane	99.1		0	70-130	%REC	208475	1	06/08/2015 16:58	NP
Surr: Toluene-d8	91.1		0	70-130	%REC	208475	1	06/08/2015 16:58	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208475	1	06/08/2015 16:58	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208475	1	06/08/2015 16:58	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208475	1	06/08/2015 16:58	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 49 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 7

Project Name: Clouds Collection Date: 5/29/2015 10:30:00 AM

Lab ID: 1506305-040 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208475	1	06/08/2015 17:25	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208475	1	06/08/2015 17:25	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208475	1	06/08/2015 17:25	NP
Naphthalene	BRL		0.44	5.0	ug/L	208475	1	06/08/2015 17:25	NP
Toluene	BRL		0.24	1.0	ug/L	208475	1	06/08/2015 17:25	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208475	1	06/08/2015 17:25	NP
Surr: 4-Bromofluorobenzene	73.5		0	70-130	%REC	208475	1	06/08/2015 17:25	NP
Surr: Dibromofluoromethane	102		0	70-130	%REC	208475	1	06/08/2015 17:25	NP
Surr: Toluene-d8	92.1		0	70-130	%REC	208475	1	06/08/2015 17:25	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208475	1	06/08/2015 17:25	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208475	1	06/08/2015 17:25	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208475	1	06/08/2015 17:25	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 50 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 51

Project Name: Clouds Collection Date: 5/29/2015 8:30:00 AM

Lab ID: 1506305-041 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208475	1	06/08/2015 17:52	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208475	1	06/08/2015 17:52	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208475	1	06/08/2015 17:52	NP
Naphthalene	BRL		0.44	5.0	ug/L	208475	1	06/08/2015 17:52	NP
Toluene	BRL		0.24	1.0	ug/L	208475	1	06/08/2015 17:52	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208475	1	06/08/2015 17:52	NP
Surr: 4-Bromofluorobenzene	70.4		0	70-130	%REC	208475	1	06/08/2015 17:52	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	208475	1	06/08/2015 17:52	NP
Surr: Toluene-d8	89.7		0	70-130	%REC	208475	1	06/08/2015 17:52	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208475	1	06/08/2015 17:52	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208475	1	06/08/2015 17:52	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208475	1	06/08/2015 17:52	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 51 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 58

Project Name: Clouds Collection Date: 5/29/2015 11:15:00 AM

Lab ID: 1506305-042 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208476	1	06/09/2015 17:49	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208476	1	06/09/2015 17:49	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208476	1	06/09/2015 17:49	NP
Naphthalene	BRL		0.44	5.0	ug/L	208476	1	06/09/2015 17:49	NP
Toluene	BRL		0.24	1.0	ug/L	208476	1	06/09/2015 17:49	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208476	1	06/09/2015 17:49	NP
Surr: 4-Bromofluorobenzene	85.7		0	70-130	%REC	208476	1	06/09/2015 17:49	NP
Surr: Dibromofluoromethane	93.5		0	70-130	%REC	208476	1	06/09/2015 17:49	NP
Surr: Toluene-d8	87.2		0	70-130	%REC	208476	1	06/09/2015 17:49	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208476	1	06/09/2015 17:49	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208476	1	06/09/2015 17:49	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208476	1	06/09/2015 17:49	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 52 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 59

Project Name: Clouds Collection Date: 5/28/2015 2:00:00 PM

Lab ID: 1506305-043 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	1400		15	50	ug/L	208476	50	06/08/2015 12:04	NP
Ethylbenzene	1100		14	50	ug/L	208476	50	06/08/2015 12:04	NP
Methyl tert-butyl ether	89		0.39	1.0	ug/L	208476	1	06/09/2015 05:24	NP
Naphthalene	290		4.4	50	ug/L	208476	10	06/09/2015 15:35	NP
Toluene	23		0.24	1.0	ug/L	208476	1	06/09/2015 05:24	NP
Xylenes, Total	620		9.3	10	ug/L	208476	10	06/09/2015 15:35	NP
Surr: 4-Bromofluorobenzene	78.5		0	70-130	%REC	208476	50	06/08/2015 12:04	NP
Surr: 4-Bromofluorobenzene	93.5		0	70-130	%REC	208476	10	06/09/2015 15:35	NP
Surr: 4-Bromofluorobenzene	101		0	70-130	%REC	208476	1	06/09/2015 05:24	NP
Surr: Dibromofluoromethane	95.1		0	70-130	%REC	208476	50	06/08/2015 12:04	NP
Surr: Dibromofluoromethane	81.2		0	70-130	%REC	208476	1	06/09/2015 05:24	NP
Surr: Dibromofluoromethane	88.2		0	70-130	%REC	208476	10	06/09/2015 15:35	NP
Surr: Toluene-d8	90.2		0	70-130	%REC	208476	50	06/08/2015 12:04	NP
Surr: Toluene-d8	83.8		0	70-130	%REC	208476	1	06/09/2015 05:24	NP
Surr: Toluene-d8	86.7		0	70-130	%REC	208476	10	06/09/2015 15:35	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	3900		29	100	ug/L	208476	1	06/09/2015 05:24	NP
tert-Amyl methyl ether	34		2.5	10	ug/L	208476	1	06/09/2015 05:24	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208476	1	06/09/2015 05:24	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 53 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: DUP C

Project Name: Clouds Collection Date: 5/28/2015 2:05:00 PM

Lab ID: 1506305-044 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	1400		15	50	ug/L	208476	50	06/08/2015 12:31	NP
Ethylbenzene	1100		14	50	ug/L	208476	50	06/08/2015 12:31	NP
Methyl tert-butyl ether	88		0.39	1.0	ug/L	208476	1	06/09/2015 05:51	NP
Naphthalene	300		4.4	50	ug/L	208476	10	06/09/2015 16:02	NP
Toluene	23		0.24	1.0	ug/L	208476	1	06/09/2015 05:51	NP
Xylenes, Total	600		9.3	10	ug/L	208476	10	06/09/2015 16:02	NP
Surr: 4-Bromofluorobenzene	79.7		0	70-130	%REC	208476	50	06/08/2015 12:31	NP
Surr: 4-Bromofluorobenzene	91.8		0	70-130	%REC	208476	10	06/09/2015 16:02	NP
Surr: 4-Bromofluorobenzene	100		0	70-130	%REC	208476	1	06/09/2015 05:51	NP
Surr: Dibromofluoromethane	95.5		0	70-130	%REC	208476	50	06/08/2015 12:31	NP
Surr: Dibromofluoromethane	81.4		0	70-130	%REC	208476	1	06/09/2015 05:51	NP
Surr: Dibromofluoromethane	86.7		0	70-130	%REC	208476	10	06/09/2015 16:02	NP
Surr: Toluene-d8	91.5		0	70-130	%REC	208476	50	06/08/2015 12:31	NP
Surr: Toluene-d8	85		0	70-130	%REC	208476	1	06/09/2015 05:51	NP
Surr: Toluene-d8	84.7		0	70-130	%REC	208476	10	06/09/2015 16:02	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	4200		29	100	ug/L	208476	1	06/09/2015 05:51	NP
tert-Amyl methyl ether	22		2.5	10	ug/L	208476	1	06/09/2015 05:51	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208476	1	06/09/2015 05:51	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 54 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 56

Project Name: Clouds Collection Date: 5/28/2015 4:00:00 PM

Lab ID: 1506305-045 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW5030	)B)			
Benzene	BRL		0.30	1.0	ug/L	208476	1	06/09/2015 18:16	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208476	1	06/09/2015 18:16	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208476	1	06/09/2015 18:16	NP
Naphthalene	BRL		0.44	5.0	ug/L	208476	1	06/09/2015 18:16	NP
Toluene	BRL		0.24	1.0	ug/L	208476	1	06/09/2015 18:16	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208476	1	06/09/2015 18:16	NP
Surr: 4-Bromofluorobenzene	82.1		0	70-130	%REC	208476	1	06/09/2015 18:16	NP
Surr: Dibromofluoromethane	93.8		0	70-130	%REC	208476	1	06/09/2015 18:16	NP
Surr: Toluene-d8	85.4		0	70-130	%REC	208476	1	06/09/2015 18:16	NP
Oxygenates SW8260B				(	SW5030	<b>OB</b> )			
tert-Amyl alcohol	BRL		29	100	ug/L	208476	1	06/09/2015 18:16	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208476	1	06/09/2015 18:16	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208476	1	06/09/2015 18:16	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 55 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 55

Project Name: Clouds Collection Date: 5/28/2015 3:45:00 PM

Lab ID: 1506305-046 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	1000		15	50	ug/L	208476	50	06/08/2015 12:57	NP
Ethylbenzene	410		14	50	ug/L	208476	50	06/08/2015 12:57	NP
Methyl tert-butyl ether	190		0.39	1.0	ug/L	208476	1	06/09/2015 06:18	NP
Naphthalene	180		4.4	50	ug/L	208476	10	06/09/2015 16:29	NP
Toluene	40		0.24	1.0	ug/L	208476	1	06/09/2015 06:18	NP
Xylenes, Total	260		0.93	1.0	ug/L	208476	1	06/09/2015 06:18	NP
Surr: 4-Bromofluorobenzene	78.4		0	70-130	%REC	208476	50	06/08/2015 12:57	NP
Surr: 4-Bromofluorobenzene	91.5		0	70-130	%REC	208476	10	06/09/2015 16:29	NP
Surr: 4-Bromofluorobenzene	97		0	70-130	%REC	208476	1	06/09/2015 06:18	NP
Surr: Dibromofluoromethane	94		0	70-130	%REC	208476	50	06/08/2015 12:57	NP
Surr: Dibromofluoromethane	82.6		0	70-130	%REC	208476	1	06/09/2015 06:18	NP
Surr: Dibromofluoromethane	83.1		0	70-130	%REC	208476	10	06/09/2015 16:29	NP
Surr: Toluene-d8	89.5		0	70-130	%REC	208476	50	06/08/2015 12:57	NP
Surr: Toluene-d8	84.8		0	70-130	%REC	208476	1	06/09/2015 06:18	NP
Surr: Toluene-d8	85.7		0	70-130	%REC	208476	10	06/09/2015 16:29	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	1700		29	100	ug/L	208476	1	06/09/2015 06:18	NP
tert-Amyl methyl ether	15		2.5	10	ug/L	208476	1	06/09/2015 06:18	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208476	1	06/09/2015 06:18	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 56 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 13

Project Name: Clouds Collection Date: 5/28/2015 3:15:00 PM

Lab ID: 1506305-047 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW5030	0B)			
Benzene	BRL		0.30	1.0	ug/L	208476	1	06/09/2015 18:42	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208476	1	06/09/2015 18:42	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208476	1	06/09/2015 18:42	NP
Naphthalene	BRL		0.44	5.0	ug/L	208476	1	06/09/2015 18:42	NP
Toluene	BRL		0.24	1.0	ug/L	208476	1	06/09/2015 18:42	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208476	1	06/09/2015 18:42	NP
Surr: 4-Bromofluorobenzene	80.5		0	70-130	%REC	208476	1	06/09/2015 18:42	NP
Surr: Dibromofluoromethane	92		0	70-130	%REC	208476	1	06/09/2015 18:42	NP
Surr: Toluene-d8	85.9		0	70-130	%REC	208476	1	06/09/2015 18:42	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208476	1	06/09/2015 18:42	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208476	1	06/09/2015 18:42	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208476	1	06/09/2015 18:42	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 57 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: DW 3

Project Name: Clouds Collection Date: 5/28/2015 12:30:00 PM

Lab ID: 1506305-048 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	310		3.0	10	ug/L	208476	10	06/09/2015 16:56	NP
Ethylbenzene	79		0.29	1.0	ug/L	208476	1	06/09/2015 02:45	NP
Methyl tert-butyl ether	6.5		0.39	1.0	ug/L	208476	1	06/09/2015 02:45	NP
Naphthalene	130		4.4	50	ug/L	208476	10	06/09/2015 16:56	NP
Toluene	4000		12	50	ug/L	208476	50	06/09/2015 17:23	NP
Xylenes, Total	3100		9.3	10	ug/L	208476	10	06/09/2015 16:56	NP
Surr: 4-Bromofluorobenzene	88.8		0	70-130	%REC	208476	50	06/09/2015 17:23	NP
Surr: 4-Bromofluorobenzene	86.5		0	70-130	%REC	208476	1	06/09/2015 02:45	NP
Surr: 4-Bromofluorobenzene	91.2		0	70-130	%REC	208476	10	06/09/2015 16:56	NP
Surr: Dibromofluoromethane	88		0	70-130	%REC	208476	50	06/09/2015 17:23	NP
Surr: Dibromofluoromethane	86.1		0	70-130	%REC	208476	10	06/09/2015 16:56	NP
Surr: Dibromofluoromethane	91.7		0	70-130	%REC	208476	1	06/09/2015 02:45	NP
Surr: Toluene-d8	85		0	70-130	%REC	208476	50	06/09/2015 17:23	NP
Surr: Toluene-d8	83.6		0	70-130	%REC	208476	10	06/09/2015 16:56	NP
Surr: Toluene-d8	85.7		0	70-130	%REC	208476	1	06/09/2015 02:45	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	750		29	100	ug/L	208476	1	06/09/2015 02:45	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208476	1	06/09/2015 02:45	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208476	1	06/09/2015 02:45	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 58 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: DUP B

Project Name: Clouds Collection Date: 5/28/2015 1:35:00 PM

Lab ID: 1506305-049 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	41		0.30	1.0	ug/L	208476	1	06/09/2015 06:44	NP
Ethylbenzene	440		5.8	20	ug/L	208476	20	06/08/2015 13:24	NP
Methyl tert-butyl ether	20		0.39	1.0	ug/L	208476	1	06/09/2015 06:44	NP
Naphthalene	49		0.44	5.0	ug/L	208476	1	06/09/2015 06:44	NP
Toluene	2.0		0.24	1.0	ug/L	208476	1	06/09/2015 06:44	NP
Xylenes, Total	13		0.93	1.0	ug/L	208476	1	06/09/2015 06:44	NP
Surr: 4-Bromofluorobenzene	95.3		0	70-130	%REC	208476	1	06/09/2015 06:44	NP
Surr: 4-Bromofluorobenzene	78.9		0	70-130	%REC	208476	20	06/08/2015 13:24	NP
Surr: Dibromofluoromethane	86.9		0	70-130	%REC	208476	1	06/09/2015 06:44	NP
Surr: Dibromofluoromethane	93.3		0	70-130	%REC	208476	20	06/08/2015 13:24	NP
Surr: Toluene-d8	86.9		0	70-130	%REC	208476	1	06/09/2015 06:44	NP
Surr: Toluene-d8	90.4		0	70-130	%REC	208476	20	06/08/2015 13:24	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	1900		29	100	ug/L	208476	1	06/09/2015 06:44	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208476	1	06/09/2015 06:44	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208476	1	06/09/2015 06:44	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 59 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: DW 4

Project Name: Clouds Collection Date: 6/2/2015 1:45:00 PM

Lab ID: 1506305-050 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208476	1	06/08/2015 19:39	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208476	1	06/08/2015 19:39	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208476	1	06/08/2015 19:39	NP
Naphthalene	BRL		0.44	5.0	ug/L	208476	1	06/08/2015 19:39	NP
Toluene	BRL		0.24	1.0	ug/L	208476	1	06/08/2015 19:39	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208476	1	06/08/2015 19:39	NP
Surr: 4-Bromofluorobenzene	75.9		0	70-130	%REC	208476	1	06/08/2015 19:39	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	208476	1	06/08/2015 19:39	NP
Surr: Toluene-d8	91.4		0	70-130	%REC	208476	1	06/08/2015 19:39	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208476	1	06/08/2015 19:39	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208476	1	06/08/2015 19:39	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208476	1	06/08/2015 19:39	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 60 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 67

Project Name: Clouds Collection Date: 6/2/2015 11:30:00 AM

Lab ID: 1506305-051 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208476	1	06/09/2015 00:05	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208476	1	06/09/2015 00:05	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208476	1	06/09/2015 00:05	NP
Naphthalene	BRL		0.44	5.0	ug/L	208476	1	06/09/2015 00:05	NP
Toluene	BRL		0.24	1.0	ug/L	208476	1	06/09/2015 00:05	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208476	1	06/09/2015 00:05	NP
Surr: 4-Bromofluorobenzene	76.2		0	70-130	%REC	208476	1	06/09/2015 00:05	NP
Surr: Dibromofluoromethane	106		0	70-130	%REC	208476	1	06/09/2015 00:05	NP
Surr: Toluene-d8	90		0	70-130	%REC	208476	1	06/09/2015 00:05	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208476	1	06/09/2015 00:05	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208476	1	06/09/2015 00:05	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208476	1	06/09/2015 00:05	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 61 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 26

Project Name: Clouds Collection Date: 6/2/2015 1:15:00 PM

Lab ID: 1506305-052 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208476	1	06/09/2015 00:31	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208476	1	06/09/2015 00:31	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208476	1	06/09/2015 00:31	NP
Naphthalene	BRL		0.44	5.0	ug/L	208476	1	06/09/2015 00:31	NP
Toluene	BRL		0.24	1.0	ug/L	208476	1	06/09/2015 00:31	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208476	1	06/09/2015 00:31	NP
Surr: 4-Bromofluorobenzene	74.9		0	70-130	%REC	208476	1	06/09/2015 00:31	NP
Surr: Dibromofluoromethane	108		0	70-130	%REC	208476	1	06/09/2015 00:31	NP
Surr: Toluene-d8	90.4		0	70-130	%REC	208476	1	06/09/2015 00:31	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208476	1	06/09/2015 00:31	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208476	1	06/09/2015 00:31	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208476	1	06/09/2015 00:31	NP

Qualifiers: * Value exceeds maximum contaminant level

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

BRL Not detected at MDL

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 62 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 38

Project Name: Clouds Collection Date: 6/2/2015 12:45:00 PM

Lab ID: 1506305-053 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208476	1	06/09/2015 00:58	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208476	1	06/09/2015 00:58	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208476	1	06/09/2015 00:58	NP
Naphthalene	BRL		0.44	5.0	ug/L	208476	1	06/09/2015 00:58	NP
Toluene	BRL		0.24	1.0	ug/L	208476	1	06/09/2015 00:58	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208476	1	06/09/2015 00:58	NP
Surr: 4-Bromofluorobenzene	76.6		0	70-130	%REC	208476	1	06/09/2015 00:58	NP
Surr: Dibromofluoromethane	108		0	70-130	%REC	208476	1	06/09/2015 00:58	NP
Surr: Toluene-d8	91.6		0	70-130	%REC	208476	1	06/09/2015 00:58	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208476	1	06/09/2015 00:58	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208476	1	06/09/2015 00:58	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208476	1	06/09/2015 00:58	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 63 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: DW 6

Project Name: Clouds Collection Date: 6/2/2015 12:00:00 PM

Lab ID: 1506305-054 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208476	1	06/09/2015 01:25	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208476	1	06/09/2015 01:25	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208476	1	06/09/2015 01:25	NP
Naphthalene	BRL		0.44	5.0	ug/L	208476	1	06/09/2015 01:25	NP
Toluene	BRL		0.24	1.0	ug/L	208476	1	06/09/2015 01:25	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208476	1	06/09/2015 01:25	NP
Surr: 4-Bromofluorobenzene	75.5		0	70-130	%REC	208476	1	06/09/2015 01:25	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	208476	1	06/09/2015 01:25	NP
Surr: Toluene-d8	91.7		0	70-130	%REC	208476	1	06/09/2015 01:25	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208476	1	06/09/2015 01:25	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208476	1	06/09/2015 01:25	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208476	1	06/09/2015 01:25	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 64 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 42

Project Name: Clouds Collection Date: 6/2/2015 11:45:00 AM

Lab ID: 1506305-055 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208476	1	06/09/2015 01:52	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208476	1	06/09/2015 01:52	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208476	1	06/09/2015 01:52	NP
Naphthalene	BRL		0.44	5.0	ug/L	208476	1	06/09/2015 01:52	NP
Toluene	BRL		0.24	1.0	ug/L	208476	1	06/09/2015 01:52	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208476	1	06/09/2015 01:52	NP
Surr: 4-Bromofluorobenzene	76		0	70-130	%REC	208476	1	06/09/2015 01:52	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	208476	1	06/09/2015 01:52	NP
Surr: Toluene-d8	91.4		0	70-130	%REC	208476	1	06/09/2015 01:52	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208476	1	06/09/2015 01:52	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208476	1	06/09/2015 01:52	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208476	1	06/09/2015 01:52	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 65 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 41

Project Name: Clouds Collection Date: 6/2/2015 12:15:00 PM

Lab ID: 1506305-056 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	<b>OB</b> )			
Benzene	BRL		0.30	1.0	ug/L	208476	1	06/09/2015 02:18	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208476	1	06/09/2015 02:18	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208476	1	06/09/2015 02:18	NP
Naphthalene	BRL		0.44	5.0	ug/L	208476	1	06/09/2015 02:18	NP
Toluene	BRL		0.24	1.0	ug/L	208476	1	06/09/2015 02:18	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208476	1	06/09/2015 02:18	NP
Surr: 4-Bromofluorobenzene	76.9		0	70-130	%REC	208476	1	06/09/2015 02:18	NP
Surr: Dibromofluoromethane	107		0	70-130	%REC	208476	1	06/09/2015 02:18	NP
Surr: Toluene-d8	89.3		0	70-130	%REC	208476	1	06/09/2015 02:18	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208476	1	06/09/2015 02:18	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208476	1	06/09/2015 02:18	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208476	1	06/09/2015 02:18	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 66 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 40

Project Name: Clouds Collection Date: 6/2/2015 12:30:00 PM

Lab ID: 1506305-057 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	5.2		0.30	1.0	ug/L	208476	1	06/09/2015 07:11	NP
Ethylbenzene	3.9		0.29	1.0	ug/L	208476	1	06/09/2015 07:11	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208476	1	06/09/2015 07:11	NP
Naphthalene	38		0.44	5.0	ug/L	208476	1	06/09/2015 07:11	NP
Toluene	47		0.24	1.0	ug/L	208476	1	06/09/2015 07:11	NP
Xylenes, Total	590		9.3	10	ug/L	208476	10	06/08/2015 13:51	NP
Surr: 4-Bromofluorobenzene	82.6		0	70-130	%REC	208476	10	06/08/2015 13:51	NP
Surr: 4-Bromofluorobenzene	94		0	70-130	%REC	208476	1	06/09/2015 07:11	NP
Surr: Dibromofluoromethane	84.5		0	70-130	%REC	208476	1	06/09/2015 07:11	NP
Surr: Dibromofluoromethane	91.2		0	70-130	%REC	208476	10	06/08/2015 13:51	NP
Surr: Toluene-d8	86.3		0	70-130	%REC	208476	1	06/09/2015 07:11	NP
Surr: Toluene-d8	89.9		0	70-130	%REC	208476	10	06/08/2015 13:51	NP
Oxygenates SW8260B			(SW5030B)						
tert-Amyl alcohol	40	J	29	100	ug/L	208476	1	06/09/2015 07:11	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208476	1	06/09/2015 07:11	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208476	1	06/09/2015 07:11	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 67 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 39

Project Name: Clouds Collection Date: 6/2/2015 12:50:00 PM

Lab ID: 1506305-058 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW503	0B)			
Benzene	1.3		0.30	1.0	ug/L	208476	1	06/09/2015 07:38	NP
Ethylbenzene	140		0.29	1.0	ug/L	208476	1	06/09/2015 07:38	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208476	1	06/09/2015 07:38	NP
Naphthalene	160		0.44	5.0	ug/L	208476	1	06/09/2015 07:38	NP
Toluene	160		0.24	1.0	ug/L	208476	1	06/09/2015 07:38	NP
Xylenes, Total	1100		9.3	10	ug/L	208476	10	06/08/2015 14:18	NP
Surr: 4-Bromofluorobenzene	82.4		0	70-130	%REC	208476	10	06/08/2015 14:18	NP
Surr: 4-Bromofluorobenzene	93		0	70-130	%REC	208476	1	06/09/2015 07:38	NP
Surr: Dibromofluoromethane	80.9		0	70-130	%REC	208476	1	06/09/2015 07:38	NP
Surr: Dibromofluoromethane	92.3		0	70-130	%REC	208476	10	06/08/2015 14:18	NP
Surr: Toluene-d8	83.6		0	70-130	%REC	208476	1	06/09/2015 07:38	NP
Surr: Toluene-d8	89.8		0	70-130	%REC	208476	10	06/08/2015 14:18	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208476	1	06/09/2015 07:38	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208476	1	06/09/2015 07:38	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208476	1	06/09/2015 07:38	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 68 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: TRIP BLANK

Project Name:CloudsCollection Date:6/3/2015Lab ID:1506305-059Matrix:Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	3		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208476	1	06/08/2015 22:45	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208476	1	06/08/2015 22:45	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208476	1	06/08/2015 22:45	NP
Naphthalene	BRL		0.44	5.0	ug/L	208476	1	06/08/2015 22:45	NP
Toluene	BRL		0.24	1.0	ug/L	208476	1	06/08/2015 22:45	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208476	1	06/08/2015 22:45	NP
Surr: 4-Bromofluorobenzene	75.1		0	70-130	%REC	208476	1	06/08/2015 22:45	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	208476	1	06/08/2015 22:45	NP
Surr: Toluene-d8	90.7		0	70-130	%REC	208476	1	06/08/2015 22:45	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208476	1	06/08/2015 22:45	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208476	1	06/08/2015 22:45	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208476	1	06/08/2015 22:45	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 69 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: FB BTEX

Project Name: Clouds Collection Date: 5/28/2015 12:37:00 PM

Lab ID: 1506305-060 Matrix: Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW5030	)B)			
Benzene	BRL		0.30	1.0	ug/L	208476	1	06/08/2015 23:11	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208476	1	06/08/2015 23:11	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208476	1	06/08/2015 23:11	NP
Naphthalene	BRL		0.44	5.0	ug/L	208476	1	06/08/2015 23:11	NP
Toluene	BRL		0.24	1.0	ug/L	208476	1	06/08/2015 23:11	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208476	1	06/08/2015 23:11	NP
Surr: 4-Bromofluorobenzene	76.2		0	70-130	%REC	208476	1	06/08/2015 23:11	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	208476	1	06/08/2015 23:11	NP
Surr: Toluene-d8	90.7		0	70-130	%REC	208476	1	06/08/2015 23:11	NP
Oxygenates SW8260B				(	SW5030	)B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208476	1	06/08/2015 23:11	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208476	1	06/08/2015 23:11	NP
tert-Butyl Alcohol	38	J	28	100	ug/L	208476	1	06/08/2015 23:11	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 70 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: FB BTEX

Project Name: Clouds Collection Date: 5/29/2015 1:42:00 PM

Lab ID: 1506305-061 Matrix: Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208476	1	06/08/2015 23:38	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208476	1	06/08/2015 23:38	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208476	1	06/08/2015 23:38	NP
Naphthalene	BRL		0.44	5.0	ug/L	208476	1	06/08/2015 23:38	NP
Toluene	BRL		0.24	1.0	ug/L	208476	1	06/08/2015 23:38	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208476	1	06/08/2015 23:38	NP
Surr: 4-Bromofluorobenzene	76.2		0	70-130	%REC	208476	1	06/08/2015 23:38	NP
Surr: Dibromofluoromethane	103		0	70-130	%REC	208476	1	06/08/2015 23:38	NP
Surr: Toluene-d8	89.9		0	70-130	%REC	208476	1	06/08/2015 23:38	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208476	1	06/08/2015 23:38	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208476	1	06/08/2015 23:38	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208476	1	06/08/2015 23:38	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 71 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: FB BTEX

Project Name: Clouds Collection Date: 6/2/2015 11:50:00 AM

Lab ID: 1506305-062 Matrix: Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	0B)			
Benzene	BRL		0.30	1.0	ug/L	208383	1	06/04/2015 16:05	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208383	1	06/04/2015 16:05	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208383	1	06/04/2015 16:05	NP
Naphthalene	BRL		0.44	5.0	ug/L	208383	1	06/04/2015 16:05	NP
Toluene	BRL		0.24	1.0	ug/L	208383	1	06/04/2015 16:05	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208383	1	06/04/2015 16:05	NP
Surr: 4-Bromofluorobenzene	90.3		0	70-130	%REC	208383	1	06/04/2015 16:05	NP
Surr: Dibromofluoromethane	89.4		0	70-130	%REC	208383	1	06/04/2015 16:05	NP
Surr: Toluene-d8	89.4		0	70-130	%REC	208383	1	06/04/2015 16:05	NP
Oxygenates SW8260B				(	SW5030	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208383	1	06/04/2015 16:05	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208383	1	06/04/2015 16:05	NP
tert-Butyl Alcohol	43	J	28	100	ug/L	208383	1	06/04/2015 16:05	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 72 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: DW 5

Project Name: Clouds Collection Date: 5/28/2015 11:30:00 AM

Lab ID: 1506305-063 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	6900		15	50	ug/L	208383	50	06/04/2015 17:26	NP
Ethylbenzene	420		14	50	ug/L	208383	50	06/04/2015 17:26	NP
Methyl tert-butyl ether	1200		20	50	ug/L	208383	50	06/04/2015 17:26	NP
Naphthalene	290		22	250	ug/L	208383	50	06/04/2015 17:26	NP
Toluene	660		12	50	ug/L	208383	50	06/04/2015 17:26	NP
Xylenes, Total	3800		47	50	ug/L	208383	50	06/04/2015 17:26	NP
Surr: 4-Bromofluorobenzene	92.6		0	70-130	%REC	208383	50	06/04/2015 17:26	NP
Surr: Dibromofluoromethane	86.4		0	70-130	%REC	208383	50	06/04/2015 17:26	NP
Surr: Toluene-d8	89.5		0	70-130	%REC	208383	50	06/04/2015 17:26	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	6300		1400	5000	ug/L	208383	50	06/04/2015 17:26	NP
tert-Amyl methyl ether	BRL		130	500	ug/L	208383	50	06/04/2015 17:26	NP
tert-Butyl Alcohol	BRL		1400	5000	ug/L	208383	50	06/04/2015 17:26	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 73 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: MW 36

Project Name: Clouds Collection Date: 5/28/2015 10:15:00 AM

Lab ID: 1506305-065 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW8260	В		(	SW5030	)B)			
Benzene	0.79	J	0.30	1.0	ug/L	208383	1	06/04/2015 18:19	NP
Ethylbenzene	0.99	J	0.29	1.0	ug/L	208383	1	06/04/2015 18:19	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208383	1	06/04/2015 18:19	NP
Naphthalene	2.9	J	0.44	5.0	ug/L	208383	1	06/04/2015 18:19	NP
Toluene	1.3		0.24	1.0	ug/L	208383	1	06/04/2015 18:19	NP
Xylenes, Total	2.3		0.93	1.0	ug/L	208383	1	06/04/2015 18:19	NP
Surr: 4-Bromofluorobenzene	93.1		0	70-130	%REC	208383	1	06/04/2015 18:19	NP
Surr: Dibromofluoromethane	89.7		0	70-130	%REC	208383	1	06/04/2015 18:19	NP
Surr: Toluene-d8	92.4		0	70-130	%REC	208383	1	06/04/2015 18:19	NP
Oxygenates SW8260B				(	SW5030	<b>OB</b> )			
tert-Amyl alcohol	49	J	29	100	ug/L	208383	1	06/04/2015 18:19	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208383	1	06/04/2015 18:19	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208383	1	06/04/2015 18:19	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 74 of 92

Date:

Client: Crawford Environmental Services Client Sample ID: FIELD BLANK

 Project Name:
 Clouds
 Collection Date:
 6/5/2015

 Lab ID:
 1506305-072
 Matrix:
 Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	SW82601	В		(	SW503	0B)			
Benzene	BRL		0.30	1.0	ug/L	208594	1	06/09/2015 21:49	NP
Ethylbenzene	BRL		0.29	1.0	ug/L	208594	1	06/09/2015 21:49	NP
Methyl tert-butyl ether	BRL		0.39	1.0	ug/L	208594	1	06/09/2015 21:49	NP
Naphthalene	BRL		0.44	5.0	ug/L	208594	1	06/09/2015 21:49	NP
Toluene	BRL		0.24	1.0	ug/L	208594	1	06/09/2015 21:49	NP
Xylenes, Total	BRL		0.93	1.0	ug/L	208594	1	06/09/2015 21:49	NP
Surr: 4-Bromofluorobenzene	79		0	70-130	%REC	208594	1	06/09/2015 21:49	NP
Surr: Dibromofluoromethane	95.5		0	70-130	%REC	208594	1	06/09/2015 21:49	NP
Surr: Toluene-d8	86.8		0	70-130	%REC	208594	1	06/09/2015 21:49	NP
Oxygenates SW8260B				(	SW503	0B)			
tert-Amyl alcohol	BRL		29	100	ug/L	208594	1	06/09/2015 21:49	NP
tert-Amyl methyl ether	BRL		2.5	10	ug/L	208594	1	06/09/2015 21:49	NP
tert-Butyl Alcohol	BRL		28	100	ug/L	208594	1	06/09/2015 21:49	NP

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

NC Not confirmed

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative Page 75 of 92

Date:

# Sample/Cooler Receipt Checklist

ClientAccess		Work Orde	r Number	1506305
Checklist completed by	6/3/15 e	- i		
Carrier name: FedEx UPS Courier Client U	S Mail Othe	r	_	
Shipping container/cooler in good condition?	Yes 📈	No	Not Present	8
Custody seals intact on shipping container/cooler?	Yes	No	Not Present	
Custody seals intact on sample bottles?	Yes	No	Not Present	
Container/Temp Blank temperature in compliance? (0°≤6°C)	* Yes 🗸	No		
Cooler #1 3.5° Cooler #2 3.3° Cooler #3	Cooler #4 _	Co	oler#5 Co	oler #6
Chain of custody present?	Yes 🗹	No		
Chain of custody signed when relinquished and received?	Yes _	No		
Chain of custody agrees with sample labels?	Yes	No 🗹		
Samples in proper container/bottle?	Yes 🗹	No		
Sample containers intact?	Yes _	No		
Sufficient sample volume for indicated test?	Yes 🗹	No		
All samples received within holding time?	Yes 🖊	No		
Was TAT marked on the COC?	Yes	No 🗹		
Proceed with Standard TAT as per project history?	Yes 🗹	No _	Not Applicable	
Water - VOA vials have zero headspace? No VOA vials su	ıbmitted	Yes _	No	
Water - pH acceptable upon receipt?	Yes _	No	Not Applicable	
(For diffusive samples or AIHA lead) Is a known blank include	led? Yes	N	10 ₹	

See Case Narrative for resolution of the Non-Conformance.

 $\verb|\Aes_server|| Sample Receipt | My Documents | COCs and pH Adjustment Sheet | Sample Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Checklist_Rev1.rtf| | Cooler_Recipt | Chec$ 

^{*} Samples do not have to comply with the given range for certain parameters.

# Sample/Cooler Receipt Checklist

Client Acust		Work Order Nu	ımber	1506305
Checklist completed by	· · · · · · · · · · · · · · · · · · ·			*
Carrier name: FedExUPS Courier Client U	S Mail Othe	r		
Shipping container/cooler in good condition?	Yes _	No _ No	t Present _	_
Custody seals intact on shipping container/cooler?	Yes	No _ No	t Present	~
Custody seals intact on sample bottles?	Yes _	No No	t Present _	_
Container/Temp Blank temperature in compliance? (0°≤6°C)	* Yes _	No		
Cooler #1 _ 3.4 * Cooler #2 Cooler #3	Cooler #4 _	Cooler#	5	Cooler #6
Chain of custody present?	Yes _	No		
Chain of custody signed when relinquished and received?	Yes _	No		
Chain of custody agrees with sample labels?	Yes _	No		
Samples in proper container/bottle?	Yes 🗸	No _		
Sample containers intact?	Yes 🗹	No		
Sufficient sample volume for indicated test?	Yes V			
All samples received within holding time?	Yes _	No		
Was TAT marked on the COC?	Yes	No _		
Proceed with Standard TAT as per project history?	Yes _	No _ No	ot Applicabl	e
Water - VOA vials have zero headspace? No VOA vials su	bmitted	Yes 🔀	No _	
Water - pH acceptable upon receipt?	Yes _	No No	t Applicabl	e
/ Adjusted?	Chec	eked by		
Sample Condition: Good Other(Explain)		<del></del>		<del>-</del>
For diffusive samples or AIHA lead) Is a known blank includ	ed? Yes	No <u>~</u>	_	

See Case Narrative for resolution of the Non-Conformance.

^{*} Samples do not have to comply with the given range for certain parameters.

Client: Crawford Environmental Services

## ANALYTICAL QC SUMMARY REPORT

Date: 15-Jun-15

Project Name: Clouds Workorder: 1506305

BatchID: 208383

Sample ID: MB-208383	Client ID:				Un	its: ug/L	Prej	Date: 06/04	/2015 F	Run No: 29317	2
SampleType: MBLK	TestCode:	Volatile Organic Compou	nds by GC/MS	SW8260B	Bat	tchID: 208383	Ana	lysis Date: 06/04	/2015 S	Seq No: 62450	65
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	0.5300	5.0									J
Гoluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	43.02	0	50.00		86.0	70	130				
Surr: Dibromofluoromethane	46.40	0	50.00		92.8	70	130				
Surr: Toluene-d8	45.95	0	50.00		91.9	70	130				
Sample ID: MB-208383 SampleType: MBLK	Client ID: TestCode:	Oxygenates SW8260B			Un Bat	its: ug/L tchID: 208383		Date: 06/04 Object: 06/04		Run No: 29317 Seq No: 62451	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qua
tert-Amyl alcohol	BRL	100									
ert-Amyl methyl ether	BRL	10									
ert-Butyl Alcohol	BRL	100									
Sample ID: LCS-208383	Client ID:				Un	its: ug/L	Prej	Date: 06/04	/2015 F	Run No: 29317	2
SampleType: LCS	TestCode:	Volatile Organic Compou	nds by GC/MS	SW8260B	Bat	tchID: 208383	Ana	lysis Date: 06/04	/2015 S	Seq No: 62450	64
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qua
Benzene	49.62	1.0	50.00		99.2	70	130				
Ethylbenzene	49.89	1.0	50.00		99.8	70	130				
Naphthalene	45.41	5.0	50.00	0.5300	89.8	70	130				
Toluene	47.83	1.0	50.00		95.7	70	130				
Xylenes, Total	146.1	1.0	150.0		97.4	70	130				
Surr: 4-Bromofluorobenzene	47.19	0	50.00		94.4	70	130				
Qualifiers: > Greater than Result	value		< Less	than Result value			В	Analyte detected in the ass	ociated method bl	ank	

Rpt Lim Reporting Limit

BRL Below reporting limit

Estimated value detected below Reporting Limit

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix Page 78 of 92

Client: Crawford Environmental Services

ANALYTICAL QC SUMMARY REPORT

**Date:** 15-Jun-15

Project Name: Clouds Workorder: 1506305

BatchID: 208383

Sample ID: LCS-208383 SampleType: LCS	Client ID: TestCode:	Volatile Organic Compo	inds by GC/MS	SW8260B	Un: Bat	its: ug/L tchID: 208383		p Date: 0	6/04/2015 6/04/2015	Run No: Seq No:	
SampleType. Zes	resicoae.		æ.		Du	200000		aryono Date.	0.01.2010	seq i.o.	0210001
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	al %RPD	RPD	Limit Qual
Surr: Dibromofluoromethane	46.74	0	50.00		93.5	70	130				
Surr: Toluene-d8	44.56	0	50.00		89.1	70	130				
Sample ID: LCS-208383	Client ID:				Un	its: ug/L	Prej	p Date: 0	6/04/2015	Run No:	293172
SampleType: LCS	TestCode:	Oxygenates SW82601	3		Bat	tchID: 208383	Ana	alysis Date: 0	6/04/2015	Seq No:	6245175
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	al %RPD	RPD	Limit Qual
tert-Amyl alcohol	1058	100	1000		106	70	130				
tert-Amyl methyl ether	194.8	10	200.0		97.4	70	130				
tert-Butyl Alcohol	1007	100	1000		101	70	130				
Sample ID: 1506305-063AMS	Client ID:	DW 5			Un	its: ug/L	Prej	p Date: 0	6/04/2015	Run No:	293172
SampleType: MS	TestCode:	Volatile Organic Compo	inds by GC/MS	SW8260B	Bat	tchID: 208383	Ana	alysis Date: 0	6/04/2015	Seq No:	6245067
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	al %RPD	RPD	Limit Qual
Benzene	8610	50	2500	6880	69.2	70	135				S
Ethylbenzene	2839	50	2500	421.5	96.7	73.7	135				
Naphthalene	2740	250	2500	292.5	97.9	53.1	128				
Toluene	2897	50	2500	656.0	89.6	70.5	137				
Xylenes, Total	10700	50	7500	3833	91.5	71.2	135				
Surr: 4-Bromofluorobenzene	2381	0	2500		95.2	70	130				
Surr: Dibromofluoromethane	2246	0	2500		89.8	70	130				
Surr: Toluene-d8	2246	0	2500		89.8	70	130				
Sample ID: 1506305-063AMS	Client ID:				Un	its: ug/L	Prej	p Date: 0	6/04/2015	Run No:	293172
SampleType: MS	TestCode:	Oxygenates SW8260I	3		Bat	tchID: 208383	Ana	alysis Date: 0	6/04/2015	Seq No:	6245178
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	al %RPD	RPD	Limit Qual

Qualifiers:

Greater than Result value

BRL Below reporting limit

Rpt Lim Reporting Limit

BRL Below reporting limit

J Estimated value detected below Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix Page 79 of 92

Client: Crawford Environmental Services

ANALYTICAL QC SUMMARY REPORT

**Date:** 15-Jun-15

Project Name: Clouds Workorder: 1506305

Drkorder: 1506305 BatchID: 208383

Sample ID: 1506305-063AMS	Client ID:	DW 5			Uni	ts: ug/L	Prep	Date: 06/04	/2015	Run No: 293172	
SampleType: MS	TestCode:	Oxygenates SW82601	3		Bat	chID: 208383	Ana	lysis Date: 06/04	1/2015	Seq No: 6245178	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Q	ual
tert-Amyl alcohol	45760	5000	50000	6307	78.9	66.5	145				
tert-Amyl methyl ether	10010	500	10000		100	70.1	127				
tert-Butyl Alcohol	50500	5000	50000		101	70	149				
Sample ID: 1506305-063AMSD	Client ID:				Uni	ts: ug/L	Prep	Date: 06/04	/2015	Run No: 293172	
SampleType: MSD	TestCode:	Volatile Organic Compo	inds by GC/MS	SW8260B	Bat	chID: 208383	Ana	lysis Date: 06/04	/2015	Seq No: <b>6245068</b>	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Q	ual
Benzene	9151	50	2500	6880	90.9	70	135	8610	6.09	20	
Ethylbenzene	3038	50	2500	421.5	105	73.7	135	2839	6.79	20	
Naphthalene	3056	250	2500	292.5	111	53.1	128	2740	10.9	36.7	
Toluene	3054	50	2500	656.0	95.9	70.5	137	2897	5.26	20	
Xylenes, Total	11350	50	7500	3833	100	71.2	135	10700	5.89	20	
Surr: 4-Bromofluorobenzene	2393	0	2500		95.7	70	130	2381	0	0	
Surr: Dibromofluoromethane	2234	0	2500		89.4	70	130	2246	0	0	
Surr: Toluene-d8	2248	0	2500		89.9	70	130	2246	0	0	
Sample ID: 1506305-063AMSD	Client ID:	DW 5			Uni	ts: ug/L	Prep	Date: 06/04	/2015	Run No: 293172	
SampleType: MSD	TestCode:	Oxygenates SW8260I	3		Bat	chID: 208383	Ana	lysis Date: 06/04	1/2015	Seq No: <b>6245179</b>	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Q	ual
tert-Amyl alcohol	61270	5000	50000	6307	110	66.5	145	45760	29.0	24.8 I	R
tert-Amyl methyl ether	10810	500	10000		108	70.1	127	10010	7.70	20	
tert-Butyl Alcohol	57210	5000	50000		114	70	149	50500	12.5	29.4	

Qualifiers: > Greater than Result value

BRL Below reporting limit

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Page 80 of 92

Crawford Environmental Services

# ANALYTICAL QC SUMMARY REPORT

**Date:** 15-Jun-15

Project Name: Clouds

BatchID: 208405 Workorder: 1506305

Sample ID: MB-208405 SampleType: MBLK	Client ID: TestCode:	Volatile Organic Compoun	ds by GC/MS	SW8260B	Uni Bat	its: ug/L chID: 208405	200000	Date: 06/0 lysis Date: 06/0		Run No: 293215 Seq No: 6245215	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Q	)ual
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	0.7400	5.0									J
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	44.13	0	50.00		88.3	70	130				
Surr: Dibromofluoromethane	45.25	0	50.00		90.5	70	130				
Surr: Toluene-d8	44.71	0	50.00		89.4	70	130				
Sample ID: MB-208405 Sample Type: MBLK	Client ID: TestCode:	Oxygenates SW8260B			Uni Bat	its: ug/L chID: 208405		Date: 06/0		Run No: 293215 Seq No: 6245339	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Q	)ual
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
Sample ID: LCS-208405 SampleType: LCS	Client ID: TestCode:	Volatile Organic Compoun	ids by GC/MS	SW8260B	Uni Bat	its: ug/L chID: 208405		Date: 06/0 llysis Date: 06/0		Run No: 293228 Seq No: 6246831	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Q	)ual
Benzene	48.68	1.0	50.00		97.4	70	130				
Ethylbenzene	49.34	1.0	50.00		98.7	70	130				
Naphthalene	54.14	5.0	50.00	0.7400	107	70	130				
Toluene	46.97	1.0	50.00		93.9	70	130				
Xylenes, Total	144.7	1.0	150.0		96.5	70	130				
Surr: 4-Bromofluorobenzene	47.43	0	50.00		94.9	70	130				
Qualifiers: > Greater than Result v	ralue		< Less	than Result value			В	Analyte detected in the a	ssociated method l	blank	
BBI Balow reporting limit			E Ection	atad (walna ahowa quantit	totion mana)		T.	Holding times for prepar	ation or analysis a	wasadad	

Rpt Lim Reporting Limit

BRL Below reporting limit

Estimated value detected below Reporting Limit

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

RPD outside limits due to matrix

Page 81 of 92

Client: Crawford Environmental Services

ANALYTICAL QC SUMMARY REPORT

**Date:** 15-Jun-15

Project Name: Clouds
Workorder: 1506305
BatchID: 208405

Sample ID: LCS-208405 SampleType: LCS	Client ID: TestCode:	Volatile Organic Compo	ounds by GC/MS	SW8260B	Un: Bat	its: ug/L chID: 208405		p Date: 06/0 alysis Date: 06/0	4/2015 5/2015	Run No: 2 Seq No: 6	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD I	imit Qual
Surr: Dibromofluoromethane	47.62	0	50.00		95.2	70	130				
Surr: Toluene-d8	44.88	0	50.00		89.8	70	130				
Sample ID: LCS-208405 SampleType: LCS	Client ID: TestCode:	Oxygenates SW8260	В		Un: Bat	its: ug/L chID: 208405	30.739530	p Date: 06/0 alysis Date: 06/0	4/2015 5/2015	Run No: 2 Seq No: 6	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD I	Limit Qual
tert-Amyl alcohol	838.9	100	1000		83.9	70	130				
tert-Amyl methyl ether	227.2	10	200.0		114	70	130				
tert-Butyl Alcohol	776.9	100	1000		77.7	70	130				
Sample ID: 1506305-013AMS SampleType: MS	Client ID: TestCode:	MW 19 Volatile Organic Compo	ounds by GC/MS	SW8260B	Un: Bat	its: ug/L cchID: 208405		p Date: 06/0 alysis Date: 06/0	4/2015 4/2015	Run No: 2 Seq No: 6	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD I	Limit Qual
Benzene	4559	50	2500	2136	96.9	70	135				
Ethylbenzene	2996	50	2500	330.5	107	73.7	135				
Naphthalene	4050	250	2500	1214	113	53.1	128				
Toluene	18240	50	2500	16150	83.7	70.5	137				E
Xylenes, Total	24100	50	7500	16260	104	71.2	135				
Surr: 4-Bromofluorobenzene	2428	0	2500		97.1	70	130				
Surr: Dibromofluoromethane	2228	0	2500		89.1	70	130				
Surr: Toluene-d8	2247	0	2500		89.9	70	130				
Sample ID: 1506305-013AMS SampleType: MS	Client ID: TestCode:	MW 19 Oxygenates SW8260	В		Un Bat	its: ug/L chID: 208405		p Date: 06/0 alysis Date: 06/0	4/2015 4/2015	Run No: 2 Seq No: 6	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD I	Limit Qual

Qualifiers:

Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Page 82 of 92

Client: Crawford Environmental Services

ANALYTICAL QC SUMMARY REPORT

BatchID: 208405

**Date:** 15-Jun-15

Project Name: Clouds Workorder: 1506305

Sample ID: 1506305-013AMS Client ID: MW 19 Units: Prep Date: Run No: 293215 ug/L 06/04/2015 SampleType: MS TestCode: Oxygenates SW8260B BatchID: 208405 Analysis Date: 06/04/2015 Seq No: 6245342 Analyte Result RPT Limit SPK value SPK Ref Val %REC Low Limit High Limit RPD Ref Val %RPD RPD Limit Qual 63050 50000 66.5 145 tert-Amyl alcohol 5000 6184 114 tert-Amyl methyl ether 10810 500 10000 108 70.1 127 tert-Butyl Alcohol 54460 5000 50000 109 70 149

Sample ID: 1506305-013AMSD SampleType: MSD	Client ID: TestCode:		ınds by GC/MS	SW8260B	Uni Bat	ts: ug/L chID: 208405		Date: 06/04/		Run No: 29321 Seq No: 62452	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC		High Limit	RPD Ref Val	%RPD	RPD Limit	
Benzene	4560	50	2500	2136	97.0	70	135	4559	0.033	20	
Ethylbenzene	2946	50	2500	330.5	105	73.7	135	2996	1.67	20	
Naphthalene	4116	250	2500	1214	116	53.1	128	4050	1.63	36.7	
Toluene	17950	50	2500	16150	72.2	70.5	137	18240	1.60	20	E
Xylenes, Total	23720	50	7500	16260	99.3	71.2	135	24100	1.59	20	
Surr: 4-Bromofluorobenzene	2419	0	2500		96.8	70	130	2428	0	0	
Surr: Dibromofluoromethane	2264	0	2500		90.5	70	130	2228	0	0	
Surr: Toluene-d8	2256	0	2500		90.2	70	130	2247	0	0	

Sample ID: 1506305-013AMSD SampleType: MSD	Client ID: MW TestCode: Oxys	2), <del>-</del> 0	:		Uni Bate	ts: ug/L chID: 208405		Date: 06/04 lysis Date: 06/04		Run No: 293215 Seq No: 6245343
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
tert-Amyl alcohol	57550	5000	50000	6184	103	66.5	145	63050	9.12	24.8
tert-Amyl methyl ether	10110	500	10000		101	70.1	127	10810	6.72	20
tert-Butyl Alcohol	50680	5000	50000		101	70	149	54460	7.18	29.4

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Page 83 of 92

Crawford Environmental Services

ANALYTICAL QC SUMMARY REPORT

**Date:** 15-Jun-15

Project Name: Clouds

BatchID: 208475 Workorder: 1506305

Sample ID: MB-208475	Client ID:				Un	-				Run No: 293228	
SampleType: MBLK	TestCode:	Volatile Organic Compoun	ds by GC/MS	SW8260B	Bat	chID: 208475	Ana	lysis Date: 06/	05/2015	Seq No: 6248399	(
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit (	Qual
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	40.41	0	50.00		80.8	70	130				
Surr: Dibromofluoromethane	46.17	0	50.00		92.3	70	130				
Surr: Toluene-d8	45.27	0	50.00		90.5	70	130				
Sample ID: MB-208475 SampleType: MBLK	Client ID: TestCode:	Oxygenates SW8260B			Un: Bat	its: ug/L chID: 208475		Date: 06/		Run No: 293228 Seq No: 6248626	<u> </u>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit (	Qua
ert-Amyl alcohol	BRL	100									
ert-Amyl methyl ether	BRL	10									
ert-Butyl Alcohol	BRL	100									
Sample ID: LCS-208475	Client ID:				Un	its: ug/L	Prep	Date: 06/	05/2015	Run No: 293228	
SampleType: LCS	TestCode:	Volatile Organic Compoun	ds by GC/MS	SW8260B	Bat	chID: 208475	Ana	lysis Date: 06/	05/2015	Seq No: 6248398	1
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit (	Qual
Benzene	50.21	1.0	50.00		100	70	130				
Ethylbenzene	49.56	1.0	50.00		99.1	70	130				
Naphthalene	50.96	5.0	50.00		102	70	130				
Toluene	48.49	1.0	50.00		97.0	70	130				
Xylenes, Total	146.0	1.0	150.0		97.3	70	130				
Surr: 4-Bromofluorobenzene	46.75	0	50.00		93.5	70	130				
Qualifiers: > Greater than Result v	ralue		< Less	than Result value			R	Analyte detected in the	associated method b	olank	

BRL Below reporting limit

Estimated value detected below Reporting Limit Rpt Lim Reporting Limit

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix Page 84 of 92

Client: Crawford Environmental Services

ANALYTICAL QC SUMMARY REPORT

**Date:** 15-Jun-15

Project Name: Clouds Workorder: 1506305

Workorder: 1506305

BatchID: 208475

Sample ID: LCS-208475 Client ID: Units: ug/L Prep Date: 06/05/2015 Ri

Sample ID: LCS-208475	Client ID:				Un	its: ug/L	Prep	Date: 06/0	5/2015	Run No: 29322	8
SampleType: LCS	TestCode:	Volatile Organic Compo	unds by GC/MS	SW8260B	Bat	tchID: 208475	Ana	lysis Date: 06/0	5/2015	Seq No: 62483	98
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qua
Surr: Dibromofluoromethane	47.10	0	50.00		94.2	70	130				
Surr: Toluene-d8	45.75	0	50.00		91.5	70	130				
Sample ID: LCS-208475	Client ID:				Un	its: ug/L	Prep	Date: 06/0	5/2015	Run No: 29322	8
SampleType: LCS	TestCode:	Oxygenates SW82601	В		Bat	tchID: 208475	Ana	lysis Date: 06/0	5/2015	Seq No: 62486	25
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qua
ert-Amyl alcohol	853.9	100	1000		85.4	70	130				
ert-Amyl methyl ether	212.8	10	200.0		106	70	130				
ert-Butyl Alcohol	794.4	100	1000		79.4	70	130				
Sample ID: 1506305-021AMS	Client ID:	MW-5aR			Un	its: ug/L	Prep	Date: 06/0	5/2015	Run No: 29322	8
SampleType: MS	TestCode:	Oxygenates SW82601	В		Bat	tchID: 208475	Ana	lysis Date: 06/0	5/2015	Seq No: 62486	28
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qua
ert-Amyl alcohol	46740	5000	50000		93.5	66.5	145				
ert-Amyl methyl ether	12010	500	10000		120	70.1	127				
ert-Butyl Alcohol	37170	5000	50000		74.3	70	149				
Sample ID: 1506305-021AMS	Client ID:	MW-5aR			Un	its: ug/L	Prep	Date: 06/0	5/2015	Run No: 29358	3
SampleType: MS	TestCode:	Volatile Organic Compo	unds by GC/MS	SW8260B	Bat	tchID: 208475	Ana	lysis Date: 06/1	0/2015	Seq No: 62552	04
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qua
	4001	50	2500	2492	93.2	70	135				
Benzene	4821	50	2000								
	4821 2969	50	2500	211.0	110	73.7	135				
Ethylbenzene				211.0 219.0	110 134	73.7 53.1	135 128				S
Benzene Ethylbenzene Naphthalene Foluene	2969	50	2500								S

Qualifiers: > Great

Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

J Estimated value detected

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix Page 85 of 92

Client: Crawford Environmental Services

ANALYTICAL QC SUMMARY REPORT

**Date:** 15-Jun-15

 Project Name:
 Clouds

 Workorder:
 1506305
 BatchID:
 208475

Sample ID: 1506305-021AMS	Client ID:	MW-5aR			Uni	to:/T	Dror	Date: 06/05	72015 E	Run No: 29358	2
Sample Type: MS		Volatile Organic Compo	inds by GC/MS	SW8260B		ts: ug/L chID: 208475		lysis Date: 06/10		Seq No: 62552	
SampleType. Wis	resicode.	volume organic compo	au 0, 00:1120	51102002	Dat	CIII). 2004/3	Alla	lysis Date. 00/10	72013	seq 140. 02332	04
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	2372	0	2500		94.9	70	130				
Surr: Dibromofluoromethane	2258	0	2500		90.3	70	130				
Surr: Toluene-d8	2155	0	2500		86.2	70	130				
Sample ID: 1506305-021AMSD	Client ID:	MW-5aR			Uni	ts: ug/L	Prep	Date: 06/05	5/2015 F	Run No: 29322	8
SampleType: MSD	TestCode:	Oxygenates SW8260I	ı		Bat	chID: 208475	Ana	lysis Date: 06/05	5/2015 S	Seq No: <b>62486</b>	29
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Amyl alcohol	43370	5000	50000		86.7	66.5	145	46740	7.48	24.8	
tert-Amyl methyl ether	10060	500	10000		101	70.1	127	12010	17.7	20	
tert-Butyl Alcohol	39770	5000	50000		79.5	70	149	37170	6.74	29.4	
Sample ID: 1506305-021AMSD	Client ID:	MW-5aR			Uni	ts: ug/L	Prep	Date: 06/05	5/2015 F	Run No: 29358	3
SampleType: MSD	TestCode:	Volatile Organic Compo	inds by GC/MS	SW8260B	Bat	chID: 208475	Ana	lysis Date: 06/10	/2015	Seq No: 62552	06
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	4959	50	2500	2492	98.7	70	135	4821	2.82	20	
Ethylbenzene	3228	50	2500	211.0	121	73.7	135	2969	8.37	20	
Naphthalene	3710	250	2500	219.0	140	53.1	128	3557	4.20	36.7	S
Toluene	3756	50	2500	1152	104	70.5	137	3560	5.33	20	
Xylenes, Total	10360	50	7500	1304	121	71.2	135	9435	9.38	20	
Surr: 4-Bromofluorobenzene	2424	0	2500		96.9	70	130	2372	0	0	
Surr: Dibromofluoromethane	2372	0	2500		94.9	70	130	2258	0	0	

Qualifiers: > Greater than Result value

Surr: Toluene-d8

BRL Below reporting limit

J Estimated value detected below Reporting Limit

2135

Rpt Lim Reporting Limit

< Less than Result value

2500

E Estimated (value above quantitation range)

85.4

70

130

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

2155

Page 86 of 92

Client: Crawford Environmental Services ANALYTICAL QC SUMMARY REPORT

**Date:** 15-Jun-15

Project Name: Clouds Workorder: 1506305

BatchID: 208476

Sample ID: MB-208476	Client ID:				Uni	ts: ug/L	Prep	Date: 06/08	3/2015 R	un No: 293	446
SampleType: MBLK	TestCode:	Volatile Organic Compou	nds by GC/MS	SW8260B	Bat	chID: 208476	Ana	lysis Date: 06/08	3/2015 S	eq No: 625	1068
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Lin	nit Qual
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	1.690	5.0									J
Toluene	BRL	1.0									
Kylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	40.33	0	50.00		80.7	70	130				
Surr: Dibromofluoromethane	47.73	0	50.00		95.5	70	130				
Surr: Toluene-d8	44.74	0	50.00		89.5	70	130				
Sample ID: MB-208476 SampleType: MBLK	Client ID: TestCode:	Oxygenates SW8260B			Uni Bat	ts: ug/L chID: 208476		Date: 06/08 llysis Date: 06/08		un No: 293 eq No: 625	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Lin	nit Qua
	Result BRL	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Lin	nit Qua
ert-Amyl alcohol			SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Lin	nit Qua
Analyte tert-Amyl alcohol tert-Amyl methyl ether tert-Butyl Alcohol	BRL	100	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Lin	nit Qua
ert-Amyl alcohol ert-Amyl methyl ether	BRL BRL BRL	100 10		SPK Ref Val	Uni		Prep		3/2015 R	RPD Lin	446
ert-Amyl alcohol ert-Amyl methyl ether ert-Butyl Alcohol Sample ID: LCS-208476	BRL BRL BRL	100 10 100			Uni	ts: <b>ug/L</b> chID: <b>208476</b>	Prep	D Date: 06/08	3/2015 R	un No: <b>29</b> 3	3446 31064
ert-Amyl alcohol ert-Amyl methyl ether ert-Butyl Alcohol Sample ID: LCS-208476 SampleType: LCS	BRL BRL BRL Client ID: TestCode:	100 10 100 Volatile Organic Compou	nds by GC/MS	SW8260B	Uni Bat	ts: <b>ug/L</b> chID: <b>208476</b>	Prep Ana	D Date: <b>06/08</b> llysis Date: <b>06/08</b>	3/2015 R 3/2015 S	un No: <b>29</b> 3 eq No: <b>62</b> 5	3446 31064
ert-Amyl alcohol ert-Amyl methyl ether ert-Butyl Alcohol Sample ID: LCS-208476 SampleType: LCS Analyte	BRL BRL BRL Client ID: TestCode:	100 10 100 Volatile Organic Compou RPT Limit	nds by GC/MS SPK value	SW8260B	Uni Bat %REC	ts: ug/L chID: 208476 Low Limit	Prep Ana High Limit	D Date: <b>06/08</b> llysis Date: <b>06/08</b>	3/2015 R 3/2015 S	un No: <b>29</b> 3 eq No: <b>62</b> 5	3446 31064
ert-Amyl alcohol ert-Amyl methyl ether ert-Butyl Alcohol Sample ID: LCS-208476 SampleType: LCS Analyte Benzene Ethylbenzene	BRL BRL BRL Client ID: TestCode: Result	100 10 100 Volatile Organic Compou	nds by GC/MS SPK value 50.00	SW8260B	Uni Bat %REC 107	ts: ug/L chID: 208476 Low Limit	Prep Ana High Limit	D Date: <b>06/08</b> llysis Date: <b>06/08</b>	3/2015 R 3/2015 S	un No: <b>29</b> 3 eq No: <b>62</b> 5	3446 31064
ert-Amyl alcohol ert-Amyl methyl ether ert-Butyl Alcohol Sample ID: LCS-208476 SampleType: LCS Analyte Benzene Ethylbenzene Naphthalene	BRL BRL BRL Client ID: TestCode: Result 53.63 54.21	100 10 100  Volatile Organic Compou  RPT Limit 1.0 1.0	nds by GC/MS SPK value 50.00 50.00	SW8260B SPK Ref Val	Uni Bat %REC 107 108	tts: ug/L chID: 208476 Low Limit 70 70	Prep Ana High Limit	D Date: <b>06/08</b> llysis Date: <b>06/08</b>	3/2015 R 3/2015 S	un No: <b>29</b> 3 eq No: <b>62</b> 5	3446 31064
ert-Amyl alcohol ert-Amyl methyl ether ert-Butyl Alcohol Sample ID: LCS-208476 SampleType: LCS Analyte Benzene	BRL BRL BRL Client ID: TestCode: Result 53.63 54.21 55.23	100 10 100 Volatile Organic Compou RPT Limit 1.0 1.0 5.0	nds by GC/MS SPK value 50.00 50.00 50.00	SW8260B SPK Ref Val	Uni Bat %REC 107 108 107	tts: ug/L chID: 208476 Low Limit 70 70 70	Prep Ana High Limit 130 130 130	D Date: <b>06/08</b> llysis Date: <b>06/08</b>	3/2015 R 3/2015 S	un No: <b>29</b> 3 eq No: <b>62</b> 5	3446 31064

BRL Below reporting limit

Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix Page 87 of 92

Client: Crawford Environmental Services

ANALYTICAL QC SUMMARY REPORT

BatchID: 208476

Date: 15-Jun-15

Project Name: Clouds Workorder: 1506305

Sample ID: LCS-208476 Prep Date: Client ID: Units: ug/L 06/08/2015 Run No: 293446 SampleType: LCS TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 208476 Analysis Date: 06/08/2015 Seq No: 6251064 Analyte RPT Limit SPK value SPK Ref Val %REC Low Limit High Limit RPD Ref Val %RPD RPD Limit Qual Result Surr: Dibromofluoromethane 47.27 0 50.00 94.5 70 130 Surr: Toluene-d8 44.19 0 50.00 88.4 70 130 Sample ID: LCS-208476 Client ID: Units: ug/L Prep Date: 06/08/2015 Run No: 293446 TestCode: Oxygenates SW8260B BatchID: 208476 Analysis Date: Seq No: 6251169 SampleType: LCS 06/08/2015 **RPT Limit** SPK value SPK Ref Val RPD Ref Val Analyte Result %REC Low Limit High Limit %RPD RPD Limit Qual tert-Amyl alcohol 991.6 100 1000 99.2 70 130 tert-Amyl methyl ether 182.9 10 200.0 91.4 70 130 tert-Butyl Alcohol 866.5 100 1000 86.6 70 130 Sample ID: 1506305-043AMS Client ID: MW 59 Units: Prep Date: 06/08/2015 Run No: 293583 ug/L TestCode: Oxygenates SW8260B SampleType: MS BatchID: 208476 Analysis Date: 06/10/2015 Seq No: 6255242 Analyte Result **RPT Limit** SPK value SPK Ref Val %REC Low Limit High Limit RPD Ref Val %RPD RPD Limit Qual tert-Amyl alcohol 46410 5000 50000 4177 84 5 66.5 145 9872 10000 98.7 70.1 127 tert-Amyl methyl ether 500 tert-Butyl Alcohol 39480 5000 50000 79.0 70 149 Sample ID: 1506305-050AMS Client ID: DW 4 Units: Prep Date: 06/08/2015 Run No: 293690 ug/L TestCode: Volatile Organic Compounds by GC/MS SW8260B Analysis Date: Seq No: 6257223 SampleType: MS BatchID: 208476 06/11/2015 Analyte **RPT Limit** SPK Ref Val %REC Low Limit High Limit RPD Ref Val RPD Limit Qual Result SPK value %RPD 59 19 1.0 50.00 118 70 Benzene 135

Qualifiers: > Greater than Result value

Ethylbenzene

Naphthalene

Xylenes, Total

Toluene

BRL Below reporting limit

J Estimated value detected below Reporting Limit

62.07

42.22

57 64

163.0

1.0

5.0

1.0

1.0

J Estimated value detected below Reporting L

Rpt Lim Reporting Limit

< Less than Result value

50.00

50.00

50.00

150.0

E Estimated (value above quantitation range)

124

84 4

115

109

73.7

53 1

70.5

71.2

135

128

137

135

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix Page 88 of 92

Client: Crawford Environmental Services

ANALYTICAL QC SUMMARY REPORT

**Date:** 15-Jun-15

 Project Name:
 Clouds

 Workorder:
 1506305
 BatchID:
 208476

Sample ID: 1506305-050AMS SampleType: MS	Client ID: TestCode:	DW 4 Volatile Organic Compou	unds by GC/MS	SW8260B	Uni Bat	ts: ug/L chID: 208476	1000000A	Date: 06/08 llysis Date: 06/11	8/2015 1/2015	Run No: 293690 Seq No: 625722	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	49.56	0	50.00		99.1	70	130				
Surr: Dibromofluoromethane	49.28	0	50.00		98.6	70	130				
Surr: Toluene-d8	49.39	0	50.00		98.8	70	130				
Sample ID: 1506305-043AMSD	Client ID:				Uni	ts: ug/L	Prep	Date: 06/08	8/2015	Run No: 293583	3
SampleType: MSD	TestCode:	Oxygenates SW8260B	ı		Bat	chID: 208476	Ana	lysis Date: 06/10	0/2015	Seq No: 625524	13
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Amyl alcohol	47280	5000	50000	4177	86.2	66.5	145	46410	1.86	24.8	
tert-Amyl methyl ether	9976	500	10000		99.8	70.1	127	9872	1.04	20	
tert-Butyl Alcohol	40010	5000	50000		80.0	70	149	39480	1.32	29.4	
Sample ID: 1506305-050AMSD	Client ID:	DW 4			Uni	ts: ug/L	Prep	Date: 06/08	8/2015	Run No: 293690	)
SampleType: MSD	TestCode:	Volatile Organic Compou	inds by GC/MS	SW8260B	Bat	chID: 208476	Ana	lysis Date: 06/11	1/2015	Seq No: 625722	28
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	56.48	1.0	50.00		113	70	135	59.19	4.69	20	
Ethylbenzene	59.85	1.0	50.00		120	73.7	135	62.07	3.64	20	
Naphthalene	41.23	5.0	50.00		82.5	53.1	128	42.22	2.37	36.7	
Toluene	54.54	1.0	50.00		109	70.5	137	57.64	5.53	20	
Xylenes, Total	157.4	1.0	150.0		105	71.2	135	163.0	3.50	20	
Surr: 4-Bromofluorobenzene	53.31	0	50.00		107	70	130	49.56	0	0	
Surr: Dibromofluoromethane	48.78	0	50.00		97.6	70	130	49.28	0	0	
Surr: Toluene-d8	48.41	0	50.00		96.8	70	130	49.39	0	0	

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Page 89 of 92

Crawford Environmental Services

# ANALYTICAL QC SUMMARY REPORT BatchID: 208594

Date: 15-Jun-15

Clouds Project Name: Workorder: 1506305

Sample ID: MB-208594 Client ID: Prep Date: Units: ug/L 06/09/2015 Run No: 293527 SampleType: MBLK TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 208594 Analysis Date: 06/09/2015 Seq No: 6253190 Analyte Result **RPT Limit** SPK value SPK Ref Val %REC Low Limit High Limit RPD Ref Val %RPD RPD Limit Qual Benzene BRL 1.0 Ethylbenzene BRL 1.0 Methyl tert-butyl ether BRL 1.0 Naphthalene 2.190 5.0 Toluene BRL 1.0 Xylenes, Total BRL 1.0 Surr: 4-Bromofluorobenzene 40.41 0 50.00 80.8 70 130 Surr: Dibromofluoromethane 46.82 0 50.00 93.6 70 130 Surr: Toluene-d8 44.00 0 50.00 88.0 70 130 Sample ID: MB-208594 Run No: 293527 Client ID: Units: Prep Date: 06/09/2015 ug/L SampleType: MBLK TestCode: Oxygenates SW8260B BatchID: 208594 Analysis Date: 06/09/2015 Seq No: 6253375 Analyte Result RPT Limit SPK value SPK Ref Val %REC Low Limit High Limit RPD Ref Val %RPD RPD Limit Qual tert-Amyl alcohol BRL 100 tert-Amyl methyl ether BRL 10 tert-Butyl Alcohol BRL 100 Sample ID: LCS-208594 Run No: 293527 Client ID: Units: ug/L Prep Date: 06/09/2015 SampleType: LCS TestCode: Volatile Organic Compounds by GC/MS SW8260B BatchID: 208594 Analysis Date: 06/09/2015 Seq No: 6253188 RPT Limit Low Limit High Limit RPD Ref Val %RPD Analyte Result SPK value SPK Ref Val %REC RPD Limit Qual 49.71 50.00 99.4 70 130 Benzene 1.0 Ethylbenzene 55.29 50.00 70 130 1.0 111 Naphthalene 57.00 5.0 50.00 2.190 110 70 130 Toluene 48.60 1.0 50.00 97.2 70 130 Xylenes, Total 158.9 1.0 150.0 106 70 130 Surr: 4-Bromofluorobenzene 45.85 50.00 91.7 70 130

Qualifiers:

Greater than Result value

BRL Below reporting limit

Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

Analyte not NELAC certified

Spike Recovery outside limits due to matrix

Analyte detected in the associated method blank

Holding times for preparation or analysis exceeded

RPD outside limits due to matrix

Page 90 of 92

Crawford Environmental Services

ANALYTICAL QC SUMMARY REPORT

Project Name: Clouds BatchID: 208594 Workorder: 1506305

Sample ID: LCS-208594 SampleType: LCS	Client ID: TestCode:	Volatile Organic Compo	ounds by GC/MS	SW8260B	Un: Bat	its: ug/L chID: 208594		Date: 06/	/09/2015 /09/2015	Run No: 29352 Seq No: 62531	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	RPE	RPD Limit	Qual
Surr: Dibromofluoromethane	45.25	0	50.00		90.5	70	130				
Surr: Toluene-d8	42.34	0	50.00		84.7	70	130				
Sample ID: LCS-208594	Client ID:				Un	its: ug/L	Pre	Date: 06/	/09/2015	Run No: 29352	!7
SampleType: LCS	TestCode:	Oxygenates SW8260	В		Bat	chID: 208594	Ana	lysis Date: 06/	/09/2015	Seq No: 62533	74
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	RPE	RPD Limit	Qual
tert-Amyl alcohol	786.7	100	1000		78.7	70	130				
tert-Amyl methyl ether	156.4	10	200.0		78.2	70	130				
tert-Butyl Alcohol	712.9	100	1000		71.3	70	130				
Sample ID: 1506305-038AMS SampleType: MS	Client ID: TestCode:	MW 22 Oxygenates SW8260	В		Un: Bat	its: ug/L chID: 208594		Date: 06/	/09/2015 /10/2015	Run No: 29352 Seq No: 62533	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	RPE	RPD Limit	Qual
tert-Amyl alcohol	86110	10000	100000		86.1	66.5	145				
tert-Amyl methyl ether	16420	1000	20000		82.1	70.1	127				
tert-Butyl Alcohol	76430	10000	100000		76.4	70	149				
Sample ID: 1506305-038AMS SampleType: MS	Client ID: TestCode:	MW 22 Volatile Organic Compo	ounds by GC/MS	SW8260B	Un: Bat	its: ug/L chID: 208594		Date: 06/	/09/2015 /11/2015	Run No: 29364 Seq No: 62573	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	9554	100	5000	4784	95.4	70	135				
Ethylbenzene	6200	100	5000	760.0	109	73.7	135				
Naphthalene	6893	500	5000	839.0	121	53.1	128				
		100	5000	16090	96.4	70.5	137				Е
Toluene	20910	100	3000	10090	90.4	70.5	137				_

Qualifiers: Greater than Result value

BRL Below reporting limit

Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Page 91 of 92

**Date:** 15-Jun-15

Client: Crawford Environmental Services

ANALYTICAL QC SUMMARY REPORT

**Date:** 15-Jun-15

 Project Name:
 Clouds

 Workorder:
 1506305
 BatchID:
 208594

0 1 m	ot: TD				***	-				D	
Sample ID: 1506305-038AMS	Client ID:		11 66046	CHINACOD	Uni	-		•		Run No: 29364	(5))
SampleType: MS	TestCode:	Volatile Organic Compou	inds by GC/MS	SW8260B	Bat	chID: 208594	Ana	alysis Date: 06/11	/2015	Seq No: 62573	79
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	4683	0	5000		93.7	70	130				
Surr: Dibromofluoromethane	4977	0	5000		99.5	70	130				
Surr: Toluene-d8	4644	0	5000		92.9	70	130				
Sample ID: 1506305-038AMSD	Client ID:	MW 22			Uni	ts: ug/L	Pre	p Date: 06/09	/2015	Run No: 29352	7
SampleType: MSD	TestCode:	Oxygenates SW8260E	3		Bat	chID: 208594	Ana	alysis Date: 06/10	/2015	Seq No: 62534	13
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Amyl alcohol	77590	10000	100000		77.6	66.5	145	86110	10.4	24.8	
tert-Amyl methyl ether	15510	1000	20000		77.6	70.1	127	16420	5.67	20	
tert-Butyl Alcohol	72410	10000	100000		72.4	70	149	76430	5.41	29.4	
Sample ID: 1506305-038AMSD	Client ID:	MW 22			Uni	ts: ug/L	Pre	p Date: 06/09	/2015	Run No: 29364	7
SampleType: MSD	TestCode:	Volatile Organic Compou	inds by GC/MS	SW8260B	Bat	chID: 208594	Ana	alysis Date: 06/11	/2015	Seq No: 62573	81
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	10180	100	5000	4784	108	70	135	9554	6.35	20	
Ethylbenzene	6847	100	5000	760.0	122	73.7	135	6200	9.92	20	
Naphthalene	7630	500	5000	839.0	136	53.1	128	6893	10.1	36.7	S
Toluene	22080	100	5000	16090	120	70.5	137	20910	5.44	20	E
Xylenes, Total	44870	100	15000	26000	126	71.2	135	42290	5.93	20	
Surr: 4-Bromofluorobenzene	4751	0	5000		95.0	70	130	4683	0	0	
Surr: Dibromofluoromethane	4877	0	5000		97.5	70	130	4977	0	0	

Qualifiers: > Greater than Result value

Surr: Toluene-d8

BRL Below reporting limit

J Estimated value detected below Reporting Limit

4538

Rpt Lim Reporting Limit

< Less than Result value

5000

E Estimated (value above quantitation range)

90.8

70

130

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

4644

Page 92 of 92

# APPENDIX D

**Data Verification Checklist** 



Item #:	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	Yes		
2	Is UST Owner/Operator name, address, provided?			n/a
3	Is name, address, & phone number of current property owner provided?	Yes		
4	Is the SCDHEC Certified UST Site Rehabilitation Contractor's name, address, phone number, and certification number provided?	Yes		
5	Is the name, address ,telephone number, and certification number of the well driller that installed the boring/monitoring wells provided?			n/a
6	Is the name, address, telephone number, and certification number of the certified laboratories performing analytical analyses provided	Yes		
7	Has the facility history be summarized?			n/a
8	Has the regional geology and hydrogeology been summarized?			n/a
9	Are the receptor survey results provided as required?			n/a
10	Has the current use of the site and adjacent land been described?	Yes		
11	Has the site specific geology been described?			n/a
12	Has the primary soil type been described?			n/a
13	Have the field screening results been described?			n/a
14	Has a description of the soil sample collection and preservation been detailed?			n/a
15	Has the field screening methodology been detailed?			n/a
16	Has the monitoring well installation and development dates been provided?			n/a
17	Has the method of well development been detailed? (Table 2)			n/a
18	Has the justification been provided for the locations of the monitoring wells?			n/a
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	Yes		
20	Has the groundwater sampling methodology been detailed?	Yes		
21	Have the groundwater sampling dates and groundwater measurements been provided?	Yes		
22	Has the purging methodology been detailed?	Yes		
23	Has the volume of water purged from each well been provided along with the measurements to verify purging is complete?	Yes		
24	If free-product is present, has the thickness been provided?			n/a
25	Does the report include a brief discussion of the assessment done and the results?			n/a

UST Pr	ogrammatic QAPP Contractor Checklist		
26	Does the report include a brief discussion of the aquifer evaluation and the results?	Yes	
27	Does the report include a brief discussion of the fate & transport models used?		n/a
28	Are the site-conceptual tables included (Tier 1 risk evaluation)		n/a
29	Have the exposure pathways been analyzed (Tier 2 risk evauluation)		n/a
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 risk evaluation)	Yes	
31	Have recommendations for further action been provided and explained?		n/a
32	Has the soil analytical data for the site been provided in tabular format? (Table 5)		n/a
33	Has the potentiometric data for the site been provided in tabular format?	Yes	
34	Has the current and historical laboratory data been provided in tabular format	Yes	
35	Have the aquifer characteristics been provided and summarized on the appropriate form?		n/a
36	Have the Site conceptual model tables been included (Tier 1 risk evaluation)		n/a
37	Has the topographic map been provided with all the required elements?	Yes	
38	Has the site base map been provided with all the required elements?	Yes	
39	Have the CoC maps been provided?	Yes	
40	Have the potentiometric maps been provided?	Yes	
41	Have the geologic cross-sections been provided		n/a
42	Have maps showing the predicted migration of the CoCs through time been provided?		n/a
43	Has the site survey been provided and include all necessary elements? (Appendix A)		n/a
44	Have the sampling logs, chain of custody forms and analytical data package been included with all elements? (Appendix B)	Yes	
45	Is the laboratory performing the analyses properly certified? (Appendix B)	Yes	
46	Has the tax map been included with all necessary elements? (Appendix C)		n/a
47	Have the soil/boring field screening logs been provided? (Appendix D)		n/a
48	Have the well completion logs been provided? (Appendix E)		n/a
49	Have the aquifer evaluation forms,data, graphs, equations,etc. been provided? (Appendix F)		n/a
50	Have the disposal manifests been provided? (Appendix G)	Yes	
51	Has a copy of the local zoning regulations been provided? (Appendix H)		n/a

- 7-
n/a

D H	E C				Field Data	round Storag Information S	heet – Moni	toring Wel		
Date: \$-	7-15		Site ID	#: N7584	Section in the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Par	Site Information 7 <i>4  2352</i>	Site Name:	landy H	ds Chau	ron
County: Pu	culand			t Manager:	SULZ	11/4002	Field Personn	el: S. L	Itz J.	Bryan
在超過的時	Sugar, jay	ar profit	1007-12	HEALTH I	Well	Gauging Informa	ition	4,545 House	<b>"阿内斯特"</b> 第60年	4
Well ID:	Total Well Depth (ft.)	Screene		Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?
MW-62					20.75					N
MW-10					16.64					
MW-63				V	\$ 2591					W
MW-31				4	2200	24.76				N
MW-29					18.99					N
MW-20					23.04	SHEEN				
AU-IR					1275					

Notes: 10 BAILERS	PW-IR OBJECT IN WELL/CASING BENT	UST
29 Cap OFF	15 NO COP-CASING MISSED UP OF 1	
31 Cap OFF	11/12	0 (
	Signature:	CKETS

DHEC 0424 (10/2012)

1

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Water in Well Vault?

Bendict College Lir. David Swinton, president Grounds keeper JOHN TUCKER (803)705 4846 NOTIGED



### Catherine E. Heigel, Director Promoting and protecting the health of the public and the em ironment

MR CHARLES F CRAWFORD III CRAWFORD ENVIRONMENTAL SERVICES 15 CHURCH AVENUE SW ROANOKE VA 24011

AUG 2 4 2115



Re: Corrective Action System Evaluation (CASE) Report Review

UST Permit# 07584, University Mart, 2367 Taylor St., Columbia, SC Release #1 reported January 30, 1991; CA# 47811 Release #2 reported April 17, 1998; CA# 47812 UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC Release reported December 31, 1991; CA# 47813 UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC Release reported December 30, 1991; CA# 47814 Contract #IFB-5400007095-1/30/2014-EMW; PO# 4600322226 CASE report received July 1, 2015 Richland County

Dear Mr. Crawford:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the CASE report documenting the corrective action activities and the May/June 2015 groundwater sampling event. The findings have been noted.

The next semi-annual CASE report is due on or before December 5, 2015.

On all correspondence regarding this site, please reference UST Permit #07584/ #07777/ #12352. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or by e-mail at utzst@dhec.sc.gov.

Sincerely,

Sonya T. Utz, Hydrogeologist Corrective Action Section

Underground Storage Tank Management Division

Bureau of Land and Waste Management

Technical File cc:



# Catherine F Heigel, Director Promoting and protecting the health of the public and the environment

SYLVAN FOOD SYSTEMS INC 1245 BOSTON AVE WEST COLUMBIA SC 29170

AUG 2 4 2015

Re: Corrective Action System Evaluation (CASE) Report Review

UST Permit# 07584, University Mart, 2367 Taylor St., Columbia, SC Release #1 reported January 30, 1991
Release #2 reported April 17, 1998

UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC Release reported December 31, 1991

UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC Release reported December 30, 1991

CASE report received July 1, 2015 Richland County

To Whom It May Concern:

As you are aware, petroleum products have been identified in the soil and groundwater at the referenced facility. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services has been retained to initiate corrective action of the impacted soil and groundwater using aggressive fluid vapor recovery (AFVR), air sparging and soil vapor extraction, and the injection of surfactants in addition to natural attenuation.

In order to keep you updated, a copy of the Corrective Action System Evaluation (CASE) Report has been sent to you by Crawford Environmental Services. Please contact me if you did not receive the report.

If you have questions concerning this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or utzst@dhec.sc.gov.

Sincerely,

Sonya T./Utz, Hydrogeologis

Corrective Action Section

UST Management Division

Bureau of Land and Waste Management



Catherine E. Heigel. Director

Promoting and protecting the health of the public and the environment

MS LINDA WARREN C/O DOUGLAS HARLEY 1527 LYON ST COLUMBIA SC 29204

AUG 2 4 2015

Re: Corrective Action System Evaluation (CASE) Report Review

UST Permit# 07584, University Mart, 2367 Taylor St., Columbia, SC

Release #1 reported January 30, 1991 Release #2 reported April 17, 1998

UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC Release reported December 31, 1991

UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC Release reported December 30, 1991

CASE report received July 1, 2015

Richland County

Dear Ms. Warren:

As you are aware, petroleum products have been identified in the soil and groundwater at the referenced facility. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services has been retained to initiate corrective action of the impacted soil and groundwater using aggressive fluid vapor recovery (AFVR), air sparging and soil vapor extraction, and the injection of surfactants in addition to natural attenuation.

In order to keep you updated, a copy of the Corrective Action System Evaluation (CASE) Report has been sent to you by Crawford Environmental Services. Please contact me if you did not receive the report.

If you have questions concerning this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or utzst@dhec.sc.gov.

Sincerely,

Sonya T. Utz, Hydrogeologist Corrective Action Section

UST Management Division

Bureau of Land and Waste Management



# Cathetine E. Heigel. Director Promoting and protecting the health of the public and the environment

GILBERT WALKER
PUBLIC HOUSING AUTHORITY
GONZALES GARDENS
PO BOX 4307
COLUMBIA SC 29240

AUG 2 4 2015

Re: Corrective Action System Evaluation (CASE) Report Review

UST Permit# 07584, University Mart, 2367 Taylor Št., Columbia, SC Release #1 reported January 30, 1991

Release #2 reported April 17, 1998

UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC Release reported December 31, 1991

UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC Release reported December 30, 1991

CASE report received July 1, 2015

Richland County

Dear Mr. Gonzales:

As you are aware, petroleum products have been identified in the soil and groundwater at the referenced facility. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services has been retained to initiate corrective action of the impacted soil and groundwater using aggressive fluid vapor recovery (AFVR), air sparging and soil vapor extraction, and the injection of surfactants in addition to natural attenuation.

In order to keep you updated, a copy of the Corrective Action System Evaluation (CASE) Report has been sent to you by Crawford Environmental Services. Please contact me if you did not receive the report.

If you have questions concerning this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or utzst@dhec.sc.gov.

Sincerely,

Sonya T. Utz, Hydrogeologist

Corrective Action Section

UST Management Division

Bureau of Land and Waste Management



# Catherine F. Heigel, Director Promoting and protecting the health of the public and the environment

1500 MILLWOOD AVE LLC 1330 DEVONSHIRE DR COLUMBIA SC 29204

AUG 2 4 2015

Re: Corrective Action System Evaluation (CASE) Report Review

UST Permit# 07584, University Mart, 2367 Taylor St., Columbia, SC Release #1 reported January 30, 1991

Release #1 reported January 30, 199
Release #2 reported April 17, 1998

UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC Release reported December 31, 1991

UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC Release reported December 30, 1991

CASE report received July 1, 2015

Richland County

# To Whom It May Concern:

As you are aware, petroleum products have been identified in the soil and groundwater at the referenced facility. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services has been retained to initiate corrective action of the impacted soil and groundwater using aggressive fluid vapor recovery (AFVR), air sparging and soil vapor extraction, and the injection of surfactants in addition to natural attenuation.

In order to keep you updated, a copy of the Corrective Action System Evaluation (CASE) Report has been sent to you by Crawford Environmental Services. Please contact me if you did not receive the report.

If you have questions concerning this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or utzst@dhec.sc.gov.

Sincerery,

Sonya T. Utz, Hydrogeologist

Corrective Action Section UST Management Division

Bureau of Land and Waste Management



# Catherine F. Heigel, Director Promoting and protecting the health of the public and the environment

JOHN M SUDDETH 1410 N MILLWOOD AVE COLUMBIA SC 29204

AU6 2 4 2015

Re: Corrective Action System Evaluation (CASE) Report Review

UST Permit# 07584, University Mart, 2367 Taylor St., Columbia, SC

Release #1 reported January 30, 1991 Release #2 reported April 17, 1998

UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC

Release reported December 31, 1991

UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC Release reported December 30, 1991

CASE report received July 1, 2015

Richland County

Dear Mr. Suddeth:

As you are aware, petroleum products have been identified in the soil and groundwater at the referenced facility. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services has been retained to initiate corrective action of the impacted soil and groundwater using aggressive fluid vapor recovery (AFVR), air sparging and soil vapor extraction, and the injection of surfactants in addition to natural attenuation.

In order to keep you updated, a copy of the Corrective Action System Evaluation (CASE) Report has been sent to you by Crawford Environmental Services. Please contact me if you did not receive the report.

If you have questions concerning this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or utzst@dhec.sc.gov.

Sincérely,

Sonya T. Utz, Hydrogeologist

Corrective Action Section

UST Management Division

Bureau of Land and Waste Management



# Catherine F. Heigel, Director Promoting and protecting the health of the public and the environment

FUNG LAU 2300 TAYLOR ST SUITE D COLUMBIA SC 29204

Re: Corrective Action System Evaluation (CASE) Report Review

UST Permit# 07584, University Mart, 2367 Taylor St., Columbia, SC Release #1 reported January 30, 1991 Release #2 reported April 17, 1998 UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC Release reported December 31, 1991 UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC Release reported December 30, 1991

CASE report received July 1, 2015

Richland County

# Dear Fung Lau:

As you are aware, petroleum products have been identified in the soil and groundwater at the referenced facility. To prevent the release from becoming an unacceptable risk, Crawford Environmental Services has been retained to initiate corrective action of the impacted soil and groundwater using aggressive fluid vapor recovery (AFVR), air sparging and soil vapor extraction, and the injection of surfactants in addition to natural attenuation.

In order to keep you updated, a copy of the Corrective Action System Evaluation (CASE) Report has been sent to you by Crawford Environmental Services. Please contact me if you did not receive the report.

If you have questions concerning this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or utzst@dhec.sc.gov.

Sincerely,

Sonya T. Utz, Hydrogeologis Corrective Action Section

UST Management Division

Bureau of Land and Waste Management

# Document Receipt Information

Hard Copy	CD CD	Email	
Date Received		-2015	
Permit Number		0777/1235	2
Project Manager	Joel	Padgett	
Name of Contractor	crawfo	ORD Environm	entap
UST Certification N	lumber		
Docket Number	07584-	256 tech	
	67777-		
Scanned		125	
CASE	- Novem	ber 2015 (	Sampling Data)
			•



December 13, 2015

Ms. Sonya Utz
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

RE: Corrective Action System Evaluation – November 2015 (Sampling Date)
Handy Pantry #65/University Mart & Cloud's Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina
UST Permit # 07584 / 07777 / 12352

Dear Ms. Utz:

Enclosed please find one copy of the November 2015 Corrective Action System Evaluation (CASE) report prepared by Crawford Environmental Services, Inc. (CES) for the referenced site. Should you have any questions regarding the enclosed material, or if additional information is required, please feel free to contact Charlie Crawford or myself at 540.343.6256.

Best Regards,

Daniel Fisher Division Manager

Y. 122

CC:



# **Corrective Action System Evaluation Report**

Handy Pantry #65/University Mart & Cloud's Chevron Intersection of Taylor Street and Two Notch Road Columbia, South Carolina UST Permit # 07584 / 07777 / 12352

December 13, 2015 Revision 0

### **CORRETIVE ACTION SYSTEM EVALUATION REPORT**

Handy Pantry #65/University Mart & Cloud's Chevron Intersection of Taylor Street and Two Notch Road Columbia, South Carolina UST Permit # 07584 / 07777 / 12352

### **Submitted To:**

Ms. Sonya Utz
State of South Carolina
Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

## Prepared For:

Ms. Sonya Utz
State of South Carolina
Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

December 13, 2015 CES Job Number: 7.0547

Prepared By:

Y JENS

Daniel J. Fisher Division Manager Reviewed By:

Charles F. Crawford President / CEO Approved By:

B. Thomas Houghton

P.G. #2343



Site ID: 07584/07777/12352

1.0 Facility Information	3
1.1 Project Information Summary	3
1.2 Facility Information	3
1.2.1 Site Address	
1.2.2 Owner Operator Information	3
1.2.3 Contractor Information	3
1.2.4 Laboratory Information	3
2.0 Corrective Action Activities	
2.1 Corrective Action Activities Summary	4
2.1.1 Groundwater Sampling	
3.0 Summary	

#### **Tables**

Table 1: Well Construction and Historical Groundwater Elevation Summary

Table 2: Groundwater Laboratory Analytical Result Summary

Table 3: Site Specific Target Level Summary

# **Figures**

Figure 1: Topographic Map Figure 2: Site Facility Base Map

Figure 3: Groundwater Chemicals of Concern

Figure 4: Groundwater Elevation Map

Appendix A - Purge Water Disposal Manifest

Appendix B - Groundwater Sampling Data Sheets

Appendix C - Laboratory Data Reports, Chain of Custodies and Field Data Information Sheets

Appendix D - Data Verification Checklist



# 1.0 Facility Information

The subject property is located in a primarily commercial area of Columbia, South Carolina (Figure 1). The subject sites, operating as Handy Pantry #65/University Mart and former Cloud's Chevron, is bordered by light commercial properties in all directions. A site plan depicting pertinent features of the subject property is provided as Figure 2.

# 1.1 Project Information Summary:

### 1.2.1 Site Address

Handy Pantry #65 / University Mart / Clouds Chevron 2367 Taylor Street Columbia, South Carolina

# 1.2.2 Property Owner Information

Mr. Mahesh Patel 2367 Taylor Street Columbia, South Carolina

Mr. Andrew Diggins 1600 Block Two Notch Road Columbia, South Carolina

### 1.2.3 Contractor Information

Crawford Environmental Services 15 Church Avenue, SW Roanoke, Virginia 24011 1 (540) 343-6256 Contractor Number: UCC-0388

# 1.2.4 Laboratory Information

Access Analytical, Inc. (AA) 7478 Carlisle Street Irmo, SC 29063 1 (803) 781-4243 SC Certification: 32575001 Analytical Environmental Services Inc. (AES) 3785 Presidential Pkwy.
Atlanta, GA 30340
1 (770) 457-8177
SC Certification: 98016003



### 2.0 Corrective Action Activities

Corrective Action activities at the facility for this phase of work included the following:

- -Regular O&M of the Air Sparge / Soil Vapor Extraction Systems.
- -Monitoring Well Maintenance
- -Bi-Annual Sampling Event

# 2.1 Water Sample Collection

A comprehensive groundwater sampling event, including; recording equilibrated static water levels, product thicknesses, and the collection of chemical samples was completed by CES personnel between November 3 and 4, 2015. CES personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase product measurements. Samples for the shallow wells were collected utilizing disposable polyethylene bailers. Shallow wells that exhibited groundwater above the screened bracket were purged of at least three well volumes or purged till dry before sample collection. Deep and intermediate wells exhibiting groundwater above the screened bracket were purged utilizing submersible pumps with dedicated tubing. For sample collection, disposable polyethylene bailers were lowered slowly to the top of the water column (after purging in some cases) allowed to fill one volume, then removed. Disposal records for the 208-gallons of purge water generated are included as Appendix A. Groundwater was then transferred to the appropriate sampling containers and was then placed in coolers, maintaining 4°C, and delivered to an independent laboratory. Groundwater chemical samples were submitted to Access Analytical, Inc., {SC Certification: 32575001} for analysis.

# 2.1.1 Groundwater Sampling

Equilibrated static water levels and free-product thicknesses were recorded for monitoring MW-2, MW-3, MW-4, MW-5AR, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-15, MW-17, MW-18, MW-19, MW-20, MW-22, MW-23, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31, MW-32, MW-33, MW-34, MW-35, MW-36, MW-37, MW-38, MW-39, MW-40, MW-41, MW-42, MW-43, MW-44, MW-45, MW-46, MW-51, MW-53, MW-54, MW-55, MW-56, MW-58, MW-59, MW-62, MW-63, MW-67, MW-70, PWR-1, DW-1, DW-2, DW-3, DW-4, DW-5, DW-6, DW-7, DW-8 and DW-9 Groundwater sampling data sheets are included as Appendix B.



During the referenced sampling event, CES was unable to access monitoring wells MW-48, MW-49 and MW-50 due to a locked gate and monitoring wells MW-57, MW-60, MW-61, MW-64, MW-66 and MW-68 were unable to be located. CES also utilized a metal detector to locate the wells, however, the overgrown site conditions did not permit the location of the aforementioned monitoring wells. Monitoring wells MW-15 and MW-62 maintained free phase petroleum and were not sampled. Monitoring wells MW-1, MW-5 and MW-52 did not maintain sufficient water columns to collect groundwater samples.

CES sampled the monitoring wells, as part of the November 2015 sampling event, for the following chemical analyses:

Benzene/Toluene/Ethylbenzene/Xylenes (BTEX), naphthalene, Methyl Tert-Butyl Ether (MTBE), Tert-Amyl Methyl Ether (TAME), Tert-Butyl Alcohol (TBA), and Tert-Amyl Alcohol (TAA).

During the sampling event CES collected duplicate samples of monitoring wells MW-55 and PW-1R. Review of the duplicate samples collected from aforementioned monitoring well samples did not yield significant data gaps.

In addition to duplicate samples, CES also collected daily field blank samples at the conclusion of the sample events. The samples were collected at the conclusion of the day to be representative of all samples that were collected during that day. Sealed trip blank samples were also stored with samples during each day of the sample event.

Table 2 presents the laboratory data for the submitted groundwater samples collected as part of this assessment. The groundwater concentration maps are included as Figure 3. The groundwater elevation map is included as Figure 4.

### 3.0 Summary

During the corrective action activities performed at the subject property, CES conducted a comprehensive groundwater monitoring event, in an effort to determine the effectiveness of the current corrective action plan. The qualitative and quantitative data collected from recent assessment activities indicates the following regarding current site conditions;

- 1. Groundwater from monitoring wells MW-3, MW-9, MW-12, MW-17, MW-18, MW-19, MW-20, MW-22, MW-25, MW-33, MW-35, MW-37, MW-54, MW-5AR, PW-1R and DW-3 exhibited hydrocarbon constituent concentrations above the SSTLs for the chemicals of concern.
- 2. CES calculated a concentration of concern reduction of 35.64 percent during this phase of work.



- 3. Free-phase petroleum was observed at monitoring wells MW-15 and MW-62. CES is mobilizing to the subject site on December 16, 2015 to confirm the presence of free product at MW-62. If free product is not detected, a sample will be collected and the results will be presented in a letter report.
- 4. In accordance with SCDHEC directives, CES mobilized to the subject site on November 30, 2015 to complete well repairs. CES installed expansion type well caps at monitoring wells MW-15, MW-29 and MW-30. Inspection of PW-1R revealed a bent casing and re-installation will be required. CES also inspected all wells at the site to ensure they were secured with bolts. Due to the age of many of the wells, a minimum of 9 monitoring well surface completions require replacement.
- 5. Based on the results of the previous sampling events, CES is scheduled to install injection wells proximal to MW-10 and MW-15 to perform limited surfactant injection / extraction events. CES is in continuing negotiations with the property owners of Churches Chicken to obtain access to install injection wells. CES estimates that access will be granted in by January 2016 and the well installation and first injection can be completed by March 15, 2016.



#### **Tables**

Table 1: Summary of Groundwater Elevation Data Table 2: Summary of Groundwater Analytical Data Table 3: Site Specific Target Levels Summary



					Table '					
acility Name:				sity Mart & Clouds			IST Permit I			777 / 12352
ddress:	236			olumbia, South Car			Project Nu		7.0	547
		We	ell Cons	struction and F						
Monitor Well	Well Depth		ened	Top of Casing	Date	Depth to	Depth to	Product	Product	Groundwate
violitioi vveii	(ft)	Inte	erval	(ft)	Measured	Product (ft)	Water (ft)	Thickness (ft)	Elevation (ft)	Elevation (fl
		.hs			11/3/2015	NA	DRY	NA	NA	DRY
MW-1	27	17	27	93.89	5/29/2015	NA	DRY	NA	NA	DRY
ASSESS CONTROLLS SOF	13000	15455	0.4-67	17 (A-4-12 (A-4)	11/11/2014	NA NA	DRY DRY	NA NA	NA NA	DRY DRY
					4/2/2014	CODE CHAN		CONTROL OF	19090 1790	1800/00/00/00
					11/3/2015	NA 22.56	20.32 22.57	NA 0.01	NA 72.14	74.38 72.13
MW-2	30	20	30	94.70	5/29/2015 11/4/2014	22.56 NA	23.03	NA	72.14 NA	71.67
					4/2/2014	NA NA	21.12	NA NA	NA NA	73.58
			$\vdash$		11/3/2015	NA	23.29	NA NA	NA NA	71.16
1040/45/00/200	10000000	0.000	0.000	50000000000	5/29/2015	23.2	23.29	0.09	71.25	71.16
MW-3	29	19	29	94.45	4/2/2014	NA	21.40	NA NA	NA	73.05
					11/12/2014	NA	23.16	NA	NA	71.29
					11/3/2015	NA	20.35	NA	NA	74.50
100000	025	202	221	2002	5/29/2015	NA	21.52	NA	NA	73.33
MW-4	28	18	28	94.85	11/11/2014	NA	21.76	NA	NA NA	73.09
					4/2/2014	NA	21.31	NA	NA	73.54
1		2:			11/3/2015	NA	DRY	NA	NA	DRY
					5/29/2015	NA	DRY	NA NA	NA	DRY
MW-5	26	16	26	95.26	11/11/2014	NA	DRY	NA	NA	DRY
					4/2/2014	NA	DRY	NA	NA	DRY
				*	11/3/2015	NA	21.21	NA	NA	73.75
harden operations	rana.	7747.0000	A27900		5/29/2015	NA	22.38	NA	NA	72.58
MW-6	30	20	30	94.96	11/11/2014	NA	23.98	NA	NA	70.98
					4/3/2014	NA	22.61	NA	NA	72.35
		,			11/3/2015	NA	21.79	NA	NA	74.14
					5/29/2015	NA	23.48	NA	NA	72.45
MW-7	30	20	30	95.93	11/11/2014	NA	24.12	NA	NA	71.81
		97			4/3/2014	NA	23.02	NA	NA	72.91
				ľ	11/3/2015	NA	19.19	NA	NA	75.60
MW-8	28	18.5	28	94.79	5/29/2015	NA	20.08	NA	NA	74.71
IVIVV-0	20	16.5	20	34.79	11/11/2014	NA	21.43	NA	NA	73.36
					4/3/2014	NA	19.95	NA	NA	74.84
		75			11/3/2015	NA	20.04	NA	NA	72.26
MW-9	30	20	30	92.30	5/28/2015	NA	21.19	NA	NA	71.11
10100-5	30	20	30	32.50	11/11/2014	NA	21.69	NA	NA	70.61
					4/2/2014	NA	20.60	NA	NA	71.70
					11/3/2015	NA	14.58	NA	NA	71.40
MW-10	28	18	28	85.98	5/28/2015	NA	16.64	NA	NA	69.34
				00.00	11/11/2014			e - 1.25-Feet of I		
		V			4/1/2014	NA	17.69	NA	NA	68.29
					11/3/2015	NA	17.16	NA	NA	71.30
MW-11	30	Unk	nown	88.46	5/29/2015	NA	18.93	NA	NA	69.53
2012 (1.2)	87.5	75,011		DELVE:	11/11/2014	NA	19.38	NA	NA	69.08
					4/2/2014	NA	18.61	NA	NA	69.85
					11/3/2015	NA	3.15	NA	NA	69.65
MW-12	24.65	Unk	nown	72.80	5/28/2015	NA	4.38	NA	NA	68.42
					11/11/2014	NA	4.63	NA	NA	68.17
					4/2/2014	NA	4.20	NA	NA	68.60
				ĺ	11/3/2015	NA NA	9.82	NA NA	NA	70.62
MW-13	30.1	Unk	nown	80.44	5/28/2015	NA NA	11.71	NA NA	NA NA	68.73
					11/11/2014 4/1/2014	NA NA	12.15	NA NA	NA NA	68.29
			<del></del>			NA 14.51	11.13	NA 0.13	NA 71.02	69.31
					11/3/2015 5/29/2015	14.51 16.45	14.64	0.13 0.16	71.93 69.99	71.80 69.83
MW-15	25	15	25	86.44	11/11/2014		16.61	e - 0.25-Feet of I		
0.000					4/1/2014	16.60	16.00	0.60	69.84	70.88*
				1	4/1/2014	10.00	10.00	0.00	03.04	70.00
0.00				î e	11/3/2015	NΔ	16.29	NΔ	NΔ	70 15
\$200 PACE - \$6000	ab survivo	englisher.	915,9900.00.11	pagaganan men	11/3/2015 5/29/2015	NA	16.29	NA Unable to Loca	NA ate	70.15
MW-16	25	15	25	88.19	11/3/2015 5/29/2015 11/12/2014	NA NA	16.29	NA Unable to Loca NA		70.15 69.21

Table 1

Facility Name: Address: Handy Pantry #65 / University Mart & Clouds Chevron 2367 Taylor Street Columbia, South Carolina

UST Permit ID: CES Project Number:

07584 / 07777 / 12352 7.0547

7	Well Depth	Scre	ened	Top of Casing	Date	Depth to	Depth to	Product	Product	Groundwate
Monitor Well	(ft)		erval	(ft)	Measured	Product (ft)	Water (ft)		Elevation (ft)	Elevation (ft
	()		1	()	11/3/2015	NA NA	20.47	NA NA	NA NA	71.98
					5/28/2015	NA NA	22.70	NA NA	NA NA	69.75
MW-17	22	20	30	92.45	11/12/2014	NA NA	23.45	NA NA	NA NA	69.00
					4/2/2014	NA NA	22.00	NA NA	NA NA	70.45
					11/3/2015	NA NA	22.28	NA	NA NA	72.53
		200000	2000	Let 90000000	5/28/2015	NA NA	24.41	NA NA	NA NA	70.40
MW-18	30	20	30	94.81	11/12/2014	NA NA	25.08	NA NA	NA NA	69.73
					4/2/2014	NA NA	23.68	NA NA	NA NA	71.13
					11/3/2015	NA NA	21.81	NA NA	NA NA	71.15
	1,000				5/28/2015	NA NA	24.00	NA NA	NA NA	69.96
MW-19	30	20	30	93.96	11/13/2014	NA NA	24.56	NA NA	NA NA	69.40
					4/3/2014	NA NA	23.33	NA NA	NA NA	70.63
		<u> </u>	_	<del> </del>	11/3/2015	NA NA	20.18	NA NA	NA NA	73.94
	0100000				5/28/2015	22.67	22.61	0.06	-22.67	71.51
MW-20	25	15	25	94.12	11/13/2014	NA	23.28	NA	NA	70.84
					4/3/2014	NA NA	21.95	NA NA	NA NA	72.17
-		-		•	11/3/2015	NA NA	19.01	NA NA	NA NA	75.24
					5/28/2015	NA NA	21.85	NA NA	NA NA	72.40
MW-22	30	20	30	94.25	11/11/2014	NA NA	22.68	NA NA	NA NA	71.57
					4/3/2014	NA NA	21.11	NA NA	NA NA	73.14
		1		ļ	11/3/2015	NA NA	21.95	NA NA	NA NA	72.48
					5/28/2015	NA NA	24.25	NA NA	NA NA	70.18
MW-23	30	20	30	94.43	11/13/2014	NA NA	24.23	NA NA	NA NA	69.45
					4/3/2014	NA NA	23.65	NA NA	NA NA	70.78
					11/3/2015	NA NA	17.73	NA NA	NA NA	75.36
					5/28/2015	NA NA	20.65	NA NA	NA NA	75.36
MW-25	25.6	Unk	nown	93.09	11/10/2014	NA NA	21.60	NA NA	NA NA	71.49
					4/1/2014	NA NA	19.71	NA NA	NA NA	73.38
				-	11/3/2015	NA NA	21.06	NA NA	NA NA	74.90
					6/5/2015	NA NA	22.49	NA NA	NA NA	73.47
MW-26	30	Unk	nown	95.96	11/11/2014	NA NA	22.49	NA NA	NA NA	73.47
					4/3/2014	NA NA	20.01	NA NA	NA NA	75.95
			_	*						
					11/3/2015	NA NA	11.21	NA NA	NA NA	80.19
MW-27	30	15	30	91.40	5/28/2015	NA NA	17.75	NA NA	NA NA	73.65
					11/13/2014	NA NA	18.85	NA NA	NA NA	72.55
		-	_	-	4/1/2014	NA NA	14.65	NA	NA NA	76.75
					11/3/2015	NA NA	13.08	NA NA	NA NA	78.38
MW-28	30	15	30	91.46	5/28/2015	NA NA	17.97	NA	NA NA	73.49
		0.55		D1 - 000,1400,1	11/13/2014	NA NA	19.75	NA NA	NA NA	71.71
	1				4/1/2014	NA	15.63	NA	NA	75.83
					11/3/2015	NA 17.01	13.19	NA 0.01	NA 73.19	77.90
MW-29	30	15	30	91.09	5/28/2015	17.91	17.92	0.01	73.18	73.17 71.17
					11/13/2014	NA NA	19.92	NA NA	NA NA	
		2			4/1/2014	NA NA	15.51	NA NA	NA NA	75.58
					11/3/2015	NA NA	17.43	NA NA	NA NA	75.34
MW-30	30	15	30	92.77	5/28/2015	NA NA	26.70	NA NA	NA NA	66.07
					11/10/2014	NA NA	22.90	NA NA	NA NA	69.87
					4/1/2014	NA NA	20.50	NA NA	NA NA	72.27
					11/3/2015	NA 25.64	22.53	NA 0.01	NA CO FO	72.67
MW-31	35	20	35	95.20	5/28/2015	25.61	25.62	0.01	69.59	69.58
					11/12/2014	NA NA	26.36	NA NA	NA NA	68.84
					4/2/2014	NA NA	24.41	NA	NA NA	70.79
					11/3/2015	NA NA	19.12	NA NA	NA NA	73.75
MW-32	30	15	30	92.87	5/28/2015	NA	22.00	NA	NA	70.87
sections of the section	10 to 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To 10 To	1001	1,3 To	mand 5764	11/12/2014	NA	23.16	NA	NA	69.71
					4/2/2014	NA	21.28	NA	NA	71.59
					11/3/2015	NA	21.48	NA	NA	72.36
MW-33	35	20	35	93.84	5/28/2015	NA	23.83	NA	NA	70.01
00	]		"	55.54	11/12/2014	NA	24.65	NA	NA	69.19
	1	l	I	I	4/1/2014	NA	23.18	NA	NA	70.66

Table 1 Handy Pantry #65 / University Mart & Clouds Chevron 2367 Taylor Street Columbia, South Carolina 07584 / 07777 / 12352 Facility Name: UST Permit ID: CES Project Number: 7.0547 Address: Well Construction and Historical Groundwater Elevation Summary Depth to Depth to Well Depth Top of Casing Date Product Product Groundwater Screened Monitor Well Elevation (ft) (ft) (ft) Measured Product (ft) Water (ft) Thickness (ft) Elevation (ft) Interval 21.52 24.72 11/3/2015 NA NA NA 5/28/2015 NA NA NA 70.05 MW-34 35 20 94.77 35 11/12/2014 NA 25.49 NA NA 69.28

					11/12/2014	INA	20.49	INA	INA	03.20
				9	4/1/2014	NA	24.06	NA	NA	70.71
		Di .		0	11/3/2015	NA	21.37	NA	NA	72.34
1444 05	25	00	25	00.74	5/28/2015	NA	23.80	NA	NA	69.91
MW-35	35	20	35	93.71	11/12/2014	NA	24.66	NA	NA	69.05
					4/1/2014	NA	21.35	NA	NA	72.36
		1			11/3/2015	NA	21.36	NA	NA NA	72.53
					5/28/2015	NA NA	23.63	NA NA	NA NA	70.26
MW-36	35	20	35	93.89						
	10 42000			***************************************	11/12/2014	NA	24.72	NA	NA	69.17
					4/1/2014	NA	22.84	NA	NA	71.05
					11/3/2015	NA	21.36	NA	NA	72.42
MW-37	35	20	35	93.78	5/28/2015	NA	23.98	NA	NA	69.80
88830 7.8	1.262	155176	550	550.5	11/12/2014	NA	24.87	NA	NA	68.91
					4/1/2014	NA	22.24	NA	NA	71.54
					11/3/2015	NA	22.89	NA	NA	72.64
NAV 20	25	-00	25	05.50	6/2/2015	NA	25.26	NA	NA	70.27
MW-38	35	20	35	95.53	11/12/2014	NA	26.17	NA	NA	69.36
					4/1/2014	NA	24.61	NA	NA	70.92
				9	11/3/2015	NA	23.79	NA	NA	72.40
					6/2/2015	NA	26.45	NA	NA.	69.74
MW-39	35	20	35	96.19	11/12/2014	NA	27.36	NA NA	NA NA	68.83
					4/2/2014	NA	25.59	NA	NA	70.60
					11/3/2015	NA	23.43	NA	NA	72.26
MW-40	35	20	35	95.69	6/2/2015	NA	26.12	NA	NA	69.57
				00.00	11/12/2014	NA	27.01	NA	NA	68.68
					4/2/2014	NA	25.29	NA	NA	70.40
			S 31	2/	11/3/2015	NA	22.77	NA	NA	72.08
101/44	25		25	04.05	6/2/2015	NA	25.69	NA	NA	69.16
MW-41	35	20	35	94.85	11/11/2014	NA	26.99	NA	NA	67.86
					4/1/2014	NA	24.70	NA	NA	70.15
				0	11/3/2015	NA	23.46	NA	NA	72.35
5-21-700PM-14-92-02	118000211	50000	A10000	was record.	6/2/2015	NA	26.25	NA	NA NA	69.56
MW-42	35	20	35	95.81	11/12/2014	NA NA	27.22	NA.	NA.	68.59
					4/1/2014	NA NA	25.35	NA NA	NA NA	70.46
							22.21			70.46
					11/3/2015	NA		NA	NA	
MW-43	40	20	40	95.15	5/28/2015	NA	24.66	NA	NA	70.49
000000000000000000000000000000000000000	2000	250200	0.000	53-7510V4.2	11/11/2014	NA	25.61	NA	NA	69.54
					4/2/2014	NA	24.00	NA	NA	71.15
		Ĭ			11/3/2015	NA	20.33	NA	NA	74.24
MW-44	31	16	31	94.57	5/28/2015	NA	22.70	NA	NA	71.87
IVI V V <del>- 44 4</del>	31	1 10	31	34.07	11/11/2014	NA	24.23	NA	NA	70.34
					4/1/2014	NA	24.42	NA	NA	70.15
*					11/3/2015	NA	19.45	NA	NA	73.06
		1			5/28/2015	NA	21.75	NA	NA NA	70.76
MW-45	30	15	30	92.51	11/11/2014	NA	22.63	NA NA	NA NA	69.88
					4/1/2014	NA NA	21.22	NA NA	NA NA	71.29
		+	1	\$						
					11/3/2015	NA	21.84	NA	NA	72.66
MW-46	35	20	35	94.50	5/28/2015	NA NA	24.19	NA	NA	70.31
					11/11/2014	NA	24.95	NA	NA	69.55
					4/1/2014	NA	23.55	NA	NA	70.95
		8			11/3/2015		Unabl	e to Access - Lo	cked Gate	
MW-48	30	15	30	89.95	5/29/2015	NA	19.63	NA	NA	70.32
10100-40	30	15	30	05.50	11/11/2014		Unabl	e to Access - Lo	cked Gate	
		l.			4/2/2014	NA	19.70	NA	NA	70.25
		Î			11/3/2015		•	*		*
3605 300 000 V \$60500	00//2004	0.960	W0430	V-00/00/00/00/00	5/29/2015		235A2 1754A44	1 100 20 501	52 2VACANAVASTO	
MW-49	30	15	30	88.18	11/11/2014		Unabl	e to Access - Lo	cked Gate	
					4/2/2014					
					4/2/2014					

Table 1 acility Name: Handy Pantry #65 / University Mart & Clouds Chevron UST Permit ID: 07584 / 07777 / 12352 2367 Taylor Street Columbia, South Carolina Address: **CES Project Number:** 7.0547 Well Construction and Historical Groundwater Elevation Summary Well Depth Depth to Product Screened Top of Casing Date Depth to Product Groundwater Monitor Well Elevation (ft) (ft) Interval (ft) Measured Product (ft) Water (ft) Thickness (ft) Elevation (ft) 11/3/2015 5/29/2015 MW-50 30 15 30 84.09 Unable to Access - Locked Gate 11/11/2014 4/2/2014 21.87 72.04 11/3/2015 NA NA NA 23.72 70.19 5/29/2015 NA NA NA MW-51 35 20 35 93.91 11/11/2014 NA 24.29 NA NA 69.62 4/2/2014 NΑ 21.23 NA NA 72.68 11/3/2015 NA 8.49 NA NA 71.11 10.50 69 10 5/28/2015 NA NA NA MW-53 20 5 20 79.60 11/11/2014 NA 11.02 NA NA 68.58 4/3/2014 NA 9.60 NΑ NA 70.00 11/3/2015 NΑ 9.83 NA NA 67.75 5/28/2015 NA 11 27 NA NA 66 31 MW-54 20 5 20 77.58 Unable to Locate - Overgrown Field 11/11/2014 4/1/2014 NA 11.31 NA NA 66.27 NA 70.03 11/3/2015 1.19 NA NA 5/28/2015 NA 3.83 NA NA 67.39 MW-55 14 4 14 71.22 11/11/2014 Unable to Locate - Overgrown Field NA 4/3/2014 2.51 NA NA 68.71 11/3/2015 NA 6.4 NA NA 69.99 5/28/2015 NA 8.22 NA NA 68.17 MW-56 20 5 20 76.39 Unable to Locate - Overgrown Field 11/11/2014 4/3/2014 NA 5.12 NA NA 71.27 11/3/2015 NA 4.52 NA NA 71.85 69.52 5/29/2015 NA 6.85 NA NA MW-58 19 4 19 76.37 11/11/2014 Abandoned 4/2/2014 11/3/2015 NA 5.04 NA NA 62.98 5/28/2015 NA 6.46 NA 61.56 NA MW-59 17 2 17 68.02 11/11/2014 NA 6.69 NA 61.33 NA 4/2/2014 NA 6.05 NA NA 61.97 11/3/2015 5/28/2015 MW-60 14 4 14 67.94 Unable to Locate 11/11/2014 4/2/2014 11/3/2015 22.15 22.67 0.52 71.90 71.38 5/28/2015 22.21 23.71 1.5 71.84 70.34 MW-62 35 20 35 94.05 24.75 11/12/2014 NA NA NA 69.30 4/1/2014 NA 22.32 NA NA 71.73 11/3/2015 NA 24.05 NA NA 70.60 5/28/2015 70.61 24.04 24.05 0.01 70.60 MW-63 35 20 35 94.65 11/12/2015 Unable to Locate 23.07 NA 71.58 4/2/2014 NA NA 11/3/2015 5/28/2015 MW-65 35 20 35 94.04 Unable to Locate - Paved over 11/11/2014 4/2/2014 11/3/2015 NA 23.52 72.58 NA NA 6/2/2015 NΑ 26.29 69.81 NA NA MW-67 35 20 35 96.10 11/12/2014 NA 27.28 NA NA 68.82 4/1/2014 NA 24.44 NA NA 71.66 11/3/2015 NA 22.89 NA NA 72.60 5/28/2015 NA 25.60 NA NA 69.89 MW-70 35 20 35 95.49 26.22 11/11/2014 NA NA NA 69.27 4/2/2014 NA 24.70 NA NA 70.79 11/3/2015 NA 16.39 NA NA 77.79 NA 20.91 NA NA 73.27 5/28/2015 MW-5AR 28 18 28 94.18 11/13/2014 NA 22.64 NA NA 71.54 4/1/2014 NA 21.24 NA NA 72.94

					Table 1	1				
Facility Name:	Handy F	antry #6	5 / Univer	sity Mart & Clouds	Chevron	ι	JST Permit I	D:	07584 / 07	777 / 12352
Address:	236	7 Taylor	Street Co	lumbia, South Ca	rolina	CES	Project Nu	mber:	7.0	547
		We	ell Cons	truction and H	listorical Gr	oundwater I	Elevation	Summary		
	Well Depth	Scre	ened	Top of Casing	Date	Depth to	Depth to	Product	Product	Groundwater
Monitor Well	(ft)	Inte	erval	(ft)	Measured	Product (ft)	Water (ft)	Thickness (ft)	Elevation (ft)	Elevation (ft)
					11/3/2015	NA	21.43	NA	NA	72.32
DW 4B	50	45	50	02.75	5/29/2015	23.19	23.20	0.01	70.56	70.55
PW-1R	50	45	50	93.75	11/13/2014	NA	23.92	NA	NA	69.83
		5			4/3/2014	NA	23.11	NA	NA	70.64
				ľ	11/3/2015	NA	46.28	NA	NA	48.38
DW-1	70	65	70	94.66	5/29/2015	NA	46.28	NA	NA	48.38
DVV-1	70	65	7.0	34.00	11/10/2014	NA	45.42	NA	NA	49.24
				,	4/2/2014	NA	45.00	NA	NA	49.66
					11/3/2015	NA	43.07	NA	NA	50.95
DW-2	75	70	75	94.02	11/11/2014	NA	44.88	NA	NA	49.14
					4/2/2014	NA	44.34	NA	NA	49.68
					11/3/2015	NA	21.29	NA	NA	72.46
DW-3	52	47	52	93.75	5/28/2015	NA	23.93	NA	NA	69.82
DVV-3	52	47	52	93.75	11/13/2014	NA	24.42	NA	NA	69.33
					4/3/2014	NA	24.40	NA	NA	69.35
					11/3/2015	NA	43.34	NA	NA	50.45
DW-4	110	105	110	93.79	5/28/2015	NA	44.51	NA	NA	49.28
DVV-4	110	105	110	93.79	11/13/2014	NA	3.45	NA	NA	90.34
					4/3/2014	NA	44.60	NA	NA	49.19
					11/3/2015	NA	42.89	NA	NA	50.85
DW-5	70	65	70	93.74	5/28/2015	NA	44.45	NA	NA	49.29
DW-3	70	.00	, ,	33.74	11/12/2014	NA	44.75	NA	NA	48.99
				5	4/1/2014	NA	44.22	NA	NA	49.52
					11/3/2015	NA	44.59	NA	NA	51.31
DW-6	70	65	70	95.90	6/2/2015	NA	46.16	NA	NA	49.74
DW 5	, ,	00	"	30.50	11/12/2014	NA	46.64	NA	NA	49.26
					4/1/2014	NA	45.86	NA	NA	50.04
					11/3/2015	NA	22.97	NA	NA	49.82
DW-7	55	50	55	72.79	5/28/2015	NA	24.32	NA	NA	48.47
J., ,		00	"	1 ,2.,,0	11/11/2014	NA	24.75	NA	NA	48.04
					4/3/2014	NA	24.00	NA	NA	48.79
					11/3/2015	NA	19.43	NA	NA	49.20
DW-8	55	50	55	68.63	5/29/2015	NA	5.37	NA	NA	63.26
	WEST C	255650	7.70		11/11/2014			Abandoned	İ	
					4/2/2014			INCHES AND AND AND AND AND AND AND AND AND AND		
					11/3/2015	NA	23.62	NA	NA	52.85
DW-9	65	60	65	76.47	5/28/2015	NA	24.90	NA	NA	51.57
200M/020	MENE	3757	33%	(###.5(###)	11/11/2014	NA	24.44	NA	NA	52.03
I	1	l	I	I	4/2/2014	NA	25.00	NA	NA	51.47

INA = Information not available

* = GW Elevation Corrected for The Presence of Free Product n/a = not applicable



acility Name: Address:	Handy Pantry # 2367 Taylor Str	eet Columbi	a, South Ca	louds Chevron rolina	Table 2 ry Analytical Ro	Crawford	JST Project No. <b>nary</b>	0758	4 / 07777 / 1 7.0547	2352
Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	ТВ
MW-1	4/2/2014 11/11/2014 5/29/2015 11/3/2015					Dry				
	4/2/2014 11/4/2014	170 140	41 300	200 220	960 1300	320 410	150 160	230 210	1 <10	6.8 <10
MW-2	5/29/2015 11/4/2015	0.61	0.48	1.4	0.01-Fee 5.5	t of Free Prod	uct 2.6	<100	<10	<10
	4/2/2014 11/12/2014	6900 4600	18000 11000	1200 620	16000 8700	1800 1300	600 280	980	560.000 310.000	34 <50
MW-3	5/29/2015	- 10/2/10/20		(200 may 1770)	0.09-Fee	t of Free Prod	uct			
	11/4/2015	3000	8700	600	7200	720	360	<2000	140	<20
	4/2/2014 11/11/2014	<1 <1	<1 <1	<1 <1	<1 <1	3.5 1.6	<5 <5	<100 <100	10.000 <10	<10 <10
MW-4	5/29/2015	<1	<1	<1	<1	1.9	<5	<100	<10	<10
	11/4/2015	<1	<1	<1	<1	1.9	<5	<100	<10	<10
MW-5	4/2/2014 11/11/2014 5/29/2015					Dry				
	11/3/2015									
	4/3/2014	2.6	<1	2.4	10	2.5	4.2	<100	<10	<10
MW-6	11/11/2014 5/29/2015	<1 <1	<1 <1	<1 <1	<1 <1	0.8 <1	<5 <5	<100 <100	<10 <10	<10 <10
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10
	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<1
MW-7	11/11/2014	0.71	<1	<1	<1	<1	<5	<100	<10	<1
etana et	5/29/2015 11/4/2015	<1 <1	<1 <1	<1 <1	<1 <1	<1 <1	<5 <5	<100 <100	<10 <10	<1 <1
	4/3/2014	<1	<1	<1	<1	<1	<5 <5	<100	<10	<1
MMA/ O	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<1
MW-8	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10
	4/2/2014 11/11/2014	830 380	7500 11000	1700 1900	14000 13000	50 5	590 650	1700 1100	5000 <10	500 <10
MW-9	5/28/2015	250	5700	1200	8200	<50	480	<5000	<500	<50
	11/4/2015	520	6200	1100	8600	<50	470	3000	<500	<50
	4/1/2014	1800	5700	350	8500	50	690	5000	500.000	500
MW-10	11/11/2014 5/28/2015	66	76	67	1.25-Fee 860	t of Free Prod <1	uct 370	<100	<10	<1
	11/4/2015	10	18	4.5	120	<1	46	<100	<10	<10
	4/2/2014	2.3	4.1	11	4.1	<1	4.4	120	<10	<1
MW-11	11/11/2014	0.53	<1	<1	<1	<1	<5	80	<10	5
	5/29/2015	0.51	<1	<1	3.8	<1	6.6	50 <100	<10	<1 <1
	11/4/2015 4/2/2014	2.9	0.67	1.6	0.91	18	4.7	630	9.300	<1
NAVA/ 10	11/11/2014	990	19	910	140	21	180	3600	14.000	<1
MW-12	5/28/2015	53	2.7	430	14	22	44	2300	<10	<1
	11/4/2015	110	2	53	25	<1	10	1800	8.200	<1
	4/1/2014 11/11/2014	0.62 <1	8.8 <1	4.5	86 <1	<1 <1	31 <5	10 <100	<10 <10	<1I
MW-13	5/28/2015	<1	<1	<1	<1	<1	<5 <5	<100	<10	<10
	11/4/2015	<1	<1	<1	<1	<1	<1	<100	<10	<10
	4/1/2014					t of Free Prod				
MW-15	11/11/2014					t of Free Prod	20.20.20.2			
	5/29/2015 11/3/2015					t of Free Prod t of Free Prod				
	4/2/2014	<1	<1	<1	<1	<1	3.4	<100	<10	<1
	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<1
MW-16	11/12/2014	250	285	3,555,53	32565	1035	1000			

acility Name: Address:	Handy Pantry # 2367 Taylor Str	eet Columbi	a, South Ca	louds Chevron Irolina	Table 2 ry Analytical Ro	Crawford	IST Project No. n <b>ary</b>	0758	4 / 07777 / 1 7.0547	2352
Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
	4/2/2014	280	5100	450	13000	50	850	2200	500.000	5000
MW-17	11/12/2014	32	3000	450	8300	<10	690	270	<100	<100
	5/28/2015	210	7500	480	12000	<50	830	2200	<500	<500
	11/4/2015 4/2/2014	280 1900	10000 7200	660 630	13000 8300	<100 340	720 370	<10000 4900	<1000 70.000	<100 500
	11/12/2014	3100	11000	560	8700	510	290	12000	<1000	<100
MW-18	5/28/2015	970	2500	180	4100	230	180	3000	33.000	<10
	11/3/2015	990	5800	600	8900	93	260	<10000	<1000	<100
	4/3/2014	300	1800	490	12000	50	900	610	500.000	500
MW-19	11/13/2014	1400	2800	1600	24000	<50	1400	1300	<50	<50
WWV-13	5/28/2015	2100	17000	330	16000	<50	1200	6200	<500	<50
	11/3/2015	2900	19000	720	17000	<100	1100	5400	<1000	<100
	4/3/2014	1800	11000	460	11000	50	960	3100	65.000	500
MW-20	11/13/2014	1400	12000	500	14000	120 t of Free Prod	1100	<10000	<1000	<100
	5/29/2015 11/3/2015	930	11000	1000	17000	<50	1400	<5000	<500	<50
	4/3/2014	5700	12000	880	23000	50	990	3600	500.000	500
	11/11/2014	6300	23000	700	21000	<20	1200	9600	<20	<14
MW-22	6/5/2015	4800	16000	760	26000	<100	840	<10000	<1000	<100
	11/3/2015	6400	20000	740	24000	<100	1000	3900	<1000	<100
	4/3/2014	4200	16000	880	19000	120	1100	5900	500.000	500
MW-23	11/13/2014	890	3600	450	16000	<50	1200	1500	<50	<34
10100-25	5/28/2015	570	1500	89	8300	<50	660	<5000	<500	<50
	11/3/2015	2.9	8.5	1.5	190	<1	52	<100	<10	<10
	4/1/2014	5.5	200	320	4400	<1	1300	170	<10	<10
MW-25	11/10/2014	38 29	140 140	200	2600	1.9 <1	490	2800	<10	<10 <10
	5/28/2015	14	150	190 200	3000 2600	<1	560 340	430 390	<10 <10	<10
	11/3/2015 4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
MW-26	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10
	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
MW-27	11/13/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10
	11/3/2015	<1	<1	<1	<1	<1	<5 -	<100	<10	<10
	4/1/2014 11/13/2014	<1 <1	<1 <1	<1 <1	<1 <1	<1 <1	<5 <5	<100 <100	<10 <10	<10 <10
MW-28	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10
	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
MW-29	11/13/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
10100-29	5/29/2015				0.01-Fee	t of Free Prod	Viv2.0038			
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10
	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
MW-30	11/10/2014	<1	<1	<1	<1	<1	<5	<100	<10	<10
	5/28/2015 11/3/2015	<1 <1	<1 <1	<1 <1	<1 <1	<1 <1	<5 <5	<100 <100	<10 <10	<10 <10
	4/2/2014	0.9	<1	<1	<1	2.7	<5 <5	<100 59	<10	<10
	11/12/2014	30	9.8	310	9.3	4.1	160	460	<10	<10
MW-31	5/29/2015			2.10		t of Free Prod				
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10
	4/2/2014	0.94	<1	1.9	2.4	<1	6.6	170	<10	<10
MW-32	11/12/2014	4	13	72	10	<1	45	<100	<10	<10
11117-02	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10
	4/1/2014	560	5200	2500	6900	50	670	4100	500.000	500
MW-33	11/12/2014	130	410	210	550	1.2	71	1000	<10	<10
	5/28/2015 11/3/2015	<1 240	<1 7500	<1 1600	<1 11000	<1 <50	<5 430	29 <5000	<10 <500	<10 <50
	4/1/2014	<1	<1	<1	<1	<1	430 <5	39	<10	<10
	11/12/2014	<1	<1	<1	<1	<1	<5	39	<10	<10
MW-34	5/28/2015	<1	1.1	<1	<1	<1	<5	<100	<10	<10
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<10

Facility Name: Address:	Handy Pantry # 2367 Taylor Str	reet Columbi	ia, South Ca	louds Chevron rolina	Table 2 ry Analytical R	Crawford	JST Project No. n <b>ary</b>	0758	4 / 07777 / 1 7.0547	2352
Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
	4/1/2014	3700	4300	2000	6200	160	550	5600	54.000	5000
MW-35	11/12/2014	6000	7200	2800	7400	330	700	4700	76.000	<100
11111 00	5/28/2015	3300	5100	1500	4700	<50	640	4400	<500	<5000
	11/3/2015	1900	2200	1100	3300	84	530	2300	28.000	<100
	4/1/2014 11/12/2014	5.1 <1	<1 <1	38 <1	<1 <1	<1 <1	55 <5	96 <100	<10 <10	<100 <100
MW-36	5/28/2015	<1	1.3	<1	2.3	<1	<5	<100	<10	<100
	11/3/2015	0.74	<1	1.6	<1	<1	16	<100	<10	<100
	4/1/2014	<1	<1	<1	<1	<1	3.7	<100	<10	<100
MW-37	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
10100-57	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	3.5	<1	<1	5.4	<1	5.5	77	<10	<100
	4/1/2014 11/12/2014	<1	<1 <1	<1	<1 <1	<1 <1	<5 <5	<100	<10 <10	<100 <100
MW-38	6/2/2015	<1	<1	<1 <1	<1	<1	<5 <5	<100 <100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	4/2/2014	<1	3.2	2.2	14	<1	3.3	<100	<10	<100
MW-39	11/12/2014	11	1500	1000	3700	<1	340	220	<10	<100
IVIVV-38	6/2/2015	1.3	160	140	1100	<1	160	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	4/2/2014	5.8	14	2	580	<1	24	<100	<10	<100
MW-40	11/12/2014	140	970	300	2900	12	150	600	<10	<100
	6/2/2015 11/4/2015	5.2 0.51	47 <1	3.9 <1	590 <1	<1 <1	38 <5	<100 <100	<10 <10	<100 <100
	4/1/2014	<1	<1	<1	<1	<1	<5 <5	<100	<10	<100
	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-41	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-42	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	6/2/2015	<1	<1	<1	<1	<1	<5 -	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	4/2/2014 11/11/2014	<1 <1	<1 <1	<1 <1	<1 <1	<1 <1	<5 <5	<100 <100	<10 <10	<100 <100
MW-43	5/28/2015	<1	<1	<1	<1	<1	<5 <5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-44	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
10100-44	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	4/1/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-45	11/11/2014	<1	<1 <1	<1 <1	<1 <1	<1	<5 <5	<100 <100	<10 <10	<100 <100
	5/28/2015 11/4/2015	<1 <1	<1	<1	<1	<1 <1	<5 <5	<100	<10	<100
	4/1/2014	<1	<1	<1	<1	<1	<5 <5	<100	<10	<100
BANA/ 40	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-46	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-48	11/11/2014		100			ccess - Locked		100000		
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015 4/2/2014				Unable to A	ccess - Locked	Gale			
MW-49	11/11/2014 5/29/2015 11/3/2015				Unable to A	ccess - Locked	l Gate			
MW-50	4/2/2014 11/11/2014 5/29/2015 11/3/2015				Unable to A	ccess - Locked	l Gate			
	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
MW-51	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100

Facility Name: Address:	Handy Pantry ♯ 2367 Taylor Sti	reet Columbi	ia, South Ca	louds Chevron rolina	Table 2 ry Analytical R	Crawford	ST Project No. nary	0758	4 / 07777 / 1 7.0547	2352
Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
	4/3/2014	<1	<1	<1	<1	<1	4.1	<100	<10	<100
MW-53	11/11/2014	<1	<1	<1	<1	<1	4.1	<100	<10	<100
10100-55	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	4/1/2014 11/11/2014	<1	<1	<1	<1 Una	9.6 ble to Locate	<5	<100	6.700	<100
MW-54	5/28/2015	<1	<1	<1	<1	6.4	<5	140	<10	<100
	11/4/2015	<1	<1	<1	<1	1.5	<5	<100	<10	<100
	4/3/2014	10	1	3.5	<1	24	3.9	98	6.400	<100
MW-55	11/11/2014					ble to Locate			7	,
10100-00	5/28/2015	1000	40	410	260	190	180	1700	15	<100
	11/4/2015	640	64	200	230	160	120	1200	11	56
	4/3/2014 11/11/2014	<1	<1	<1	<1	<1 ble to Locate	<5	50	<10	<100
MW-56	5/28/2015	<1	<1	<1	<1	<1 <1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	4/2/2014					li ii		-100	-10	-100
MANA/ FO	11/11/2014				Α	bandoned				
MW-58	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	4/2/2014	28	2.8	300	6.4	130	45	2600	42.000	160
MW-59	11/11/2014	81	3.6	730	14	91	96	4500	27.000	<100
	5/28/2015 11/4/2015	1400 1300	23 48	1100 440	620 850	89 58	290 250	3900 2800	34.000 19.000	<100 <100
	4/2/2014	1300	40	440	650	56	250	2000	19.000	100
	11/11/2014	İ			West:					
MW-60	5/29/2015	İ			Unal	ble to Locate				
	11/3/2015	1								
	4/1/2014	0.86	<1	<1	<1	3	3.3	260	<10	<100
MW-62	11/12/2014	51	<1	<1	0.93	2.6	65	730	<10	<100
	5/29/2015				93.8503200 Va - (0.12.6	t of Free Produ	12.0516			
	11/3/2015 4/2/2014	<1	<1	<1	0.52-Fee <1	t of Free Produ	5	120	<10	<100
	11/12/2014	<u> </u>	<u> </u>	<u> </u>	TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE	ble to Locate	5	120	<10	<100
MW-63	5/29/2001					t of Free Produ	ıct			
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	4/2/2014		**				*		*	4
MW-65	11/11/2014				Unable to L	ocate - Paved	over			
	5/29/2015	ŀ								
	11/3/2015 4/1/2014	-1	<1	-1	-1	-1	E	×100	z10	<100
	11/12/2014	<1 <1	<1	<1 <1	<1 <1	<1 <1	5 <5	<100 <100	<10 <10	<100
MW-67	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	4/2/2014	<1	<1	<1	<1	<1	5	<100	<10	<100
MW-70	11/11/2014	<1	<1	<1	<1	<1	1.5	<100	<10	<100
IVIVV-7 U	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	4/1/2014	12000	13000	2400	13000	70	1000	<5000	160.000	<5000
MW-5AR	11/13/2014 5/28/2015	830 2500	180 1200	98 280	670 1300	13 43	130 460	<100 650	13.000 52.000	<100 <100
	11/3/2015	5200	10000	810	5300	<100	580	<10000	<1000	<1000
	4/3/2014	460	3400	320	9200	<50	<250	710	<500	<5000
DW 45	11/13/2014	850	6900	580	18000	<50	1300	<5000	<500	<5000
PW-1R	5/29/2015				0.01-Fee	t of Free Produ	ıct			
	11/3/2015	830	20000	1200	14000	<500	600	<50000	<5000	<50000
	4/2/2014	0.45	1.2	1.7	7.2	<1.0	<5.0	<100	<10	<100
DW-1	11/10/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
	5/29/2015	<1	<1 <1	<1	<1	<1	<5 <5	<100	<10	<100 <100
	11/4/2015 4/2/2014	<1 <1.0	<1.0	<1 <1.0	<1 <1.0	<1 7.1	<5 4.1	<100 <100	<10 <10	<100
	11/11/2014	<1	<1	<1	<1	10	4.1 <5	<100	<10	<100
DW-2	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	8.7	<5	<100	<10	<100

an inggara area		received to			Table 2	400	2016_	1952449		4.4.4.6
acility Name:	Handy Pantry #						ST	0758	4 / 07777 / 1	2352
Address:	2367 Taylor Str						Project No.		7.0547	
		G	roundwat	er Laboratoi	y Analytical R	esult Sumn	nary			
Well ID:	Date:	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphthalene	TAA	TAME	TBA
	4/3/2014	9800	22000	3700	17000	990	780	10000	190.000	<5000
DW 0	11/13/2014	2000	20000	2800	10000	23	650	2700	<20	<140
DW-3	5/28/2015	310	4000	79	3100	6.5	130	750	<10	<100
	11/3/2015	4300	16000	2300	11000	230	800	2600	50.000	<2000
	4/3/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
DW/	11/13/2014	<1	1	<1	<1	<1	<5	<100	<10	<100
DW-4	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/3/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
,	4/1/2014	3300	68	37	1000	940	81	4300	83.000	<100
DW F	11/12/2014	6700	380	240	3100	1400	190	5300	110.000	<100
DW-5	5/28/2015	6900	660	420	3800	1200	290	6300	<500	<5000
	11/4/2015	5900	490	200	1800	1100	170	4800	89.000	<100
	4/1/2014	8.5	1.2	1.6	7.2	3	5	<100	<10	<100
DW 0	11/12/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
DW-6	6/2/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	4/3/2014	0.52	0.46	<1.0	1.4	2.6	4.2	<100	<10	<100
DW 7	11/11/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
DW-7	5/28/2015	<1	<1	<1	<1	1.2	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
,	4/2/2014				Al					
DW-8	11/11/2014	1			A	bandoned				
DVV-8	5/29/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	4/2/2014	<1	<1	<1	<1	<1	<5	<100	<10	<100
DW 0	11/11/2014	<1	2.8	<1	<1	<1	<5	<100	<10	<100
DW-9	5/28/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	<100	<10	<100
	4/2/2014	180	8.4	30	53	42	6.5	350	9.500	100
CW/ 1	11/12/2014			10.000	Unable to Acce	ess - Overgrow	n Brush			
SW-1	5/28/2015	230	18	89	160	30	24	590	<10	<100
	11/4/2015	<1	<1	<1	<1	<1	<5	44	<10	<100

BDL= Below Detectable Limit
RBSL= Risk Based Screening Levels
NE= Not Established



1,2 DCA = 1,2 Dichloroethane
J = Estimated value detected below reporting limit

	Facility Name: Address:			dy Pantry #65 / U 2367 Taylor Stree <b>Si</b>	et Columbia, te Specifi		a	ary			JST Project No.	07584 / 07777 / 12352 7.0547
Well ID:	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total	
	Initial	140.0	280.0	56.0	460.0	380.0	54.0	200.0	9.2	140.0	1719.2	
	SSTL	77.0	280.0	56.0	460.0	380.0	54.0	200.0	9.2	140.0	1656.2	1
	Initial > SSTL	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	
MW-2	Subsequent	0.61	0.48	1.40	5.5	1.0	2.6	100.0	10.0	100.0	221.6	
	SSTL	77.0	280.0	56.0	460.0	380.0	54.0	200.0	9.2	140.0	1656.2	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Initial	3000.0	7400.0	260.0	4500.0	3300.0	260.0	2000.0	340.0	1300.0	22360.0	
	SSTL	111.0	7400.0	260.0	4500.0	1976.0	108.0	2000.0	340.0	1300.0	17995.0	
	Initial > SSTL	2889.0	0.0	0.0	0.0	1324.0	152.0	0.0	0.0	0.0	4365.0	
MW-3	Subsequent	3000.0	8700.0	600.0	7200.0	720.0	360.0	2000.0	140.0	2000.0		
	SSTL	111.0	7400.0	260.0	4500.0	1976.0	108.0	2000.0	340.0	1300.0	17995.0	
	Subsequent > SSTL	2889.0	1300.0	340.0	2700.0	0.0	252.0	0.0	0.0	700.0	8181.0	1
	Initial	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	
	SSTL	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 _
MW-5	Subsequent		•						•			Dry
	SSTL	50.0	50.0	50.0	30.5	946.0	50.0	1000.0	100.0	1000.0	3276.5	1
	Subsequent > SSTL					Dry			•			1
	Initial	4100.0	27000.0	2500.0	19000.0	150.0	960.0	1600.0	2000.0	20000.0	77310.0	
	SSTL	35.0	7134.0	2500.0	19000.0	150.0	68.0	809.0	270.0	15628.0	45594.0	1
MW-9	Initial > SSTL	4065.0	19866.0	0.0	0.0	0.0	892.0	791.0	1730.0	4372.0	31716.0	1
WW-9	Subsequent	520	6200	1100	8600	50	470	3000	500	5000	25440.0	1
	SSTL	35.0	7134.0	2500.0	19000.0	150.0	68.0	809.0	270.0	15628.0	45594.0	1
	Subsequent > SSTL	485.0	0.0	0.0	0.0	0.0	402.0	2191.0	0.0	0.0	3078.0	
	Initial	740.0	7800.0	2500.0	15000.0	2500.0	950.0	50000.0	5000.0	50000.0	134490.0	
	SSTL	24.0	7800.0	2500.0	15000.0	294.0	53.0	793.0	707.0	11042.0	38213.0	1
MW-10	Initial > SSTL	716.0	0.0	0.0	0.0	2206.0	897.0	49207.0	4293.0	38958.0	96277.0	1
IVIVV-10	Subsequent	10	18	4.5	120	1	46	100	10	100		
	SSTL	24.0	7800.0	2500.0	15000.0	294.0	53.0	793.0	707.0	11042.0	38213.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Initial	1.7	5.0	11.0	5.0	5.6	4.7	370.0	1.5	19.0	423.5	
	SSTL	1.7	5.0	11.0	5.0	5.6	4.7	370.0	1.5	19.0	423.5	
MW-12	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	
10100-12	Subsequent	110	2	53	25	1	10	1800	8.200	100	1.0	
	SSTL	1.7	5.0	11.0	5.0	5.6	4.7	370.0	1.5	19.0	423.5	]
	Subsequent > SSTL	108.3	0.0	42.0	20.0	0.0	5.3	1430.0	6.7	81.0	1693.3	
	Initial					Free Pro	duct					
	SSTL	16.0	3198.0	3700.0	21680.0	730.0	45.0	492.0	199.0	5838.0	35898.0	
MW-15	Initial > SSTL											Free Product
IVIVV-15	Subsequent		,		· ·		· ·		,			Free Product
	SSTL	16.0	3198.0	3700.0	21680.0	730.0	45.0	492.0	199.0	5838.0	35898.0	1
	Subsequent > SSTL										0.0	

	Facility Name: Address:			dy Pantry #65 / U 2367 Taylor Stree							JST Project No.	07584 / 07777 / 12352 7.0547
	Address.		3.5			c Target Lev		ary		Clawiold	rrojectivo.	7.0547
					Xylenes							
Well ID:	Item	Benzene	Toluene	Ethylbenzene	(Total)	MTBE	Naphth	TAA	TAME	TBA	Total	
	Initial	1400.0	26000.0	2500.0	23000.0	1000.0	1000.0	9400.0	2000.0	20000.0	86300.0	
	SSTL	32.0	6631.0	2500.0	21680.0	1000.0	66.0	773.0	263.0	14286.0	47231.0	
MW-17	Initial > SSTL	1368.0	19369.0	0.0	1320.0	0.0	934.0	8627.0	1737.0	5714.0	39069.0	
IVIVV-17	Subsequent	280	10000	660	13000	100	720	10000	1000.0	10000	45760.0	
	SSTL	32.0	6631.0	2500.0	21680.0	1000.0	66.0	773.0	263.0	14286.0	47231.0	
	Subsequent > SSTL	248.0	3369.0	0.0	0.0	0.0	654.0	9227.0	737.0	0.0	14235.0	
	Initial	1900.0	7200.0	630.0	8300.0	340.0	370.0	4900.0	70.0	5000.0	28710.0	
	SSTL	40.0	19326.0	3700.0	21680.0	4260.0	348.0	938.0	4989.0	54462.0	109743.0	
MW-18	Initial > SSTL	1860.0	0.0	0.0	0.0	0.0	22.0	3962.0	0.0	0.0	5844.0	
IVIVV-18	Subsequent	990	5800	600	8900	93	260	10000	1000.00	10000	37643.0	
	SSTL	40.0	19326.0	3700.0	21680.0	4260.0	348.0	938.0	4989.0	54462.0	109743.0	
	Subsequent > SSTL	950.0	0.0	0.0	0.0	0.0	0.0	9062.0	0.0	0.0	10012.0	
	Initial	300.0	1800.0	490.0	12000.0	50.0	900.0	610.0	500.0	5000.0	21650.0	
	SSTL	54.0	11081.0	3700.0	21680.0	16080.0	86.0	1065.0	320.0	26814.0	80880.0	
MW-19	Initial > SSTL	246.0	0.0	0.0	0.0	0.0	814.0	0.0	180.0	0.0	1240.0	
10100-19	Subsequent	2900	19000	720	17000	100	1100	5400	1000.00	10000	57220.0	
	SSTL	54.0	11081.0	3700.0	21680.0	16080.0	86.0	1065.0	320.0	26814.0	80880.0	
	Subsequent > SSTL	2846.0	7919.0	0.0	0.0	0.0	1014.0	4335.0	680.0	0.0	16794.0	
	Initial	412.0	2930.0	728.0	8820.0	88.7	817.0	2850.0	200.0	2000.0	18845.7	
	SSTL	83.0	2930.0	728.0	8820.0	88.7	108.0	1403.0	200.0	2000.0	16360.7	
MW-20	Initial > SSTL	329.0	0.0	0.0	0.0	0.0	709.0	1447.0	0.0	0.0	2485.0	
10100-20	Subsequent	930.0	11000.0	1000.0	17000.0	50.0	1400.0	5000.0	500.0	5000.0	41880.0	
	SSTL	83.0	2930.0	728.0	8820.0	88.7	108.0	1403.0	200.0	2000.0	16360.7	
	Subsequent > SSTL	847.0	8070.0	272.0	8180.0	0.0	1292.0	3597.0	300.0	3000.0	25558.0	
	Initial	3300.0	17000.0	2900.0	20000.0	1000.0	640.0	6200.0	130.0	20000.0	71170.0	
	SSTL	90.0	17000.0	2900.0	20000.0	1000.0	112.0	1469.0	130.0	20000.0	62701.0	
MW-22	Initial > SSTL	3210.0	0.0	0.0	0.0	0.0	528.0	4731.0	0.0	0.0	8469.0	
10100-22	Subsequent	6400	20000	740	24000	100	1000	3900	1000.00	10000	67140.0	
	SSTL	90.0	17000.0	2900.0	20000.0	1000.0	112.0	1469.0	130.0	20000.0	62701.0	
	Subsequent > SSTL	6310.0	3000.0	0.0	4000.0	0.0	888.0	2431.0	870.0	0.0	17499.0	
	Initial	4200.0	16000.0	880.0	19000.0	120.0	1100.0	5900.0	500.0	5000.0	52700.0	
	SSTL	72.0	14880.0	3700.0	21680.0	33368.0	100.0	1279.0	359.0	38475.0	113913.0	
MW-23	Initial > SSTL	4128.0	1120.0	0.0	0.0	0.0	1000.0	4621.0	141.0	0.0	11010.0	
10100-23	Subsequent	2.9	8.5	1.5	190	1	52	100	10.000	100	465.9	
	SSTL	72.0	14880.0	3700.0	21680.0	33368.0	100.0	1279.0	359.0	38475.0	113913.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Initial	5000.0	3000.0	1900.0	23000.0	5000.0	5000.0	100000.0	10000.0	100000.0	252900.0	
	SSTL	104.0	3000.0	1900.0	23000.0	5000.0	121.0	1612.0	415.0	60494.0	95646.0	
MW-25	Initial > SSTL	4896.0	0.0	0.0	0.0	0.0	4879.0	98388.0	9585.0	39506.0	157254.0	
IVIVV-25	Subsequent	14	150	200	2600	1	340	390	10	100	3805.0	
	SSTL	104.0	3000.0	1900.0	23000.0	5000.0	121.0	1612.0	415.0	60494.0	95646.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	219.0	0.0	0.0	0.0	219.0	

	Facility Name: Address:			dy Pantry #65 / U 2367 Taylor Stree <b>Si</b> t	et Columbia		3	ary			JST Project No.	07584 / 07777 / 12352 7.0547
Well ID:	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	ТВА	Total	
well ib.		57.0	90.0	520.0	250.0	12.0		510.0	50.0	500.0	2199.0	
	Initial SSTL	51.0	90.0	520.0	250.0	12.0	210.0 210.0	510.0	50.0	500.0	2199.0	
	Initial > SSTL	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	•
MW-31	Subsequent	1.0	1.0	1.0	1.0	1.0	5.0	100.0	10.0	100.0	220.0	-
	SSTL	51.0	90.0	520.0	250.0	12.0	210.0	510.0	50.0	500.0	2193.0	1
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Initial	520.0	7200.0	1500.0	7200.0	500.0	410.0	3200.0	1000.0	10000.0	31530.0	
	SSTL	53.0	7200.0	1500.0	7200.0	500.0	410.0	1136.0	1000.0	10000.0	28999.0	
	Initial > SSTL	467.0	0.0	0.0	0.0	0.0	0.0	2064.0	0.0	0.0	2531.0	
MW-33	Subsequent	240	7500	1600	11000	50	430	5000	500.00	5000	31320.0	1
	SSTL	53.0	7200.0	1500.0	7200.0	500.0	410.0	1136.0	1000.00	10000.0	28999.0	1
	Subsequent > SSTL	187.0	300.0	100.0	3800.0	0.0	20.0	3864.0	0.0	0.0	8271.0	1
	Initial	4400.0	2000.0	1700.0	3500.0	300.0	580.0	5300.0	51.0	5000.0	22831.0	
	SSTL	56.0	2000.0	1700.0	3500.0	300.0	542.0	1181.0	51.0	5000.0	14330.0	•
	Initial > SSTL	4344.0	0.0	0.0	0.0	0.0	38.0	4119.0	0.0	0.0	8501.0	1
MW-35	Subsequent	1900	2200	1100	3300	84	530	2300	28.000	100	11542.0	1
	SSTL	56.0	2000.0	1700.0	3500.0	300.0	542.0	1181.0	51.0	5000.0	14330.0	1
	Subsequent > SSTL	1844.0	2000.0	0.0	0.0	0.0	0.0	1119.0	0.0	0.0	3163.0	1
	Initial	240.0	34.0	270.0	240.0	11.0	220.0	850.0	50.0	44.0	1959.0	
	SSTL	90.0	34.0	270.0	240.0	11.0	220.0	850.0	50.0	44.0	1809.0	
	Initial > SSTL	150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.0	
MW-37	Subsequent	3.5	1	1	5.4	1	5.5	77	10	100	204.4	
	SSTL	90.0	34.0	270.0	240.0	11.0	220.0	850.0	50.0	44.0	1809.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.0	56.0	
	Initial	13.0	1300.0	460.0	4200.0	250.0	330.0	5000.0	500.0	5000.0	17053.0	
	SSTL	13.0	1300.0	460.0	4200.0	250.0	330.0	1607.0	500.0	5000.0	13660.0	
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	3393.0	0.0	0.0	3393.0	
MW-39	Subsequent	1	1	1	1	1	5	100	10	100	220.0	
	SSTL	13.0	1300.0	460.0	4200.0	250.0	330.0	1607.0	500.0	5000.0	13660.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Initial	290.0	2900.0	650.0	7100.0	500.0	530.0	10000.0	1000.0	10000.0	32970.0	
	SSTL	113.0	2900.0	650.0	7100.0	500.0	530.0	1876.0	1000.0	10000.0	24669.0	1
	Initial > SSTL	177.0	0.0	0.0	0.0	0.0	0.0	8124.0	0.0	0.0	8301.0	1
MW-40	Subsequent	0.51	1	1	1	1	5	100	10	100	219.5	
	SSTL	113.0	2900.0	650.0	7100.0	500.0	530.0	1876.0	1000.0	10000.0	24669.0	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
	Initial	260.0	1000.0	1100.0	1000.0	1000.0	420.0	20000.0	2000.0	20000.0	46780.0	
	SSTL	257.0	1000.0	1100.0	1000.0	1000.0	420.0	3234.0	2000.0	20000.0	30011.0	1
	Initial > SSTL	3.0	0.0	0.0	0.0	0.0	0.0	16766.0	0.0	0.0	16769.0	1
MW-41	Subsequent	1	1	1	1	1	5	100	10	100	220.0	1
	SSTL	257.0	1000.0	1100.0	1000.0	1000.0	420.0	3234.0	2000.0	20000.0	30011.0	1
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1

	Facility Name: Address:			dy Pantry #65 / U 2367 Taylor Stre	et Columbia	South Carolin	a				JST Project No.		777 / 12352 1547
				Si		c Target Lev	el Summ	ary					
Well ID:	Item	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	MTBE	Naphth	TAA	TAME	TBA	Total		
	Initial	5.0	5.0	5.0	5.0	5.0	5.0	100.0	10.0	100.0	240.0		
	SSTL	5.0	5.0	5.0	5.0	5.0	5.0	110.0	2.0	14.0	156.0		
	Initial > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	86.0	94.0	1	
MW-54	Subsequent	1	1	1	1	1.5	5	100	10	100	220.5	1	
	SSTL	5.0	5.0	5.0	5.0	5.0	5.0	110.0	2.0	14.0	156.0		
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	86.0	94.0		
	Initial	4.8	25.0	20.0	25.0	93.0	11.0	1800.0	15.0	100.0	2093.8		
	SSTL	4.8	25.0	20.0	25.0	51.0	11.0	279.0	15.0	100.0	530.8	1	
MW-58	Initial > SSTL	0.0	0.0	0.0	0.0	42.0	0.0	1521.0	0.0	0.0	0.0	1	
WW-58	Subsequent	1	1	1	1	1	5	100	10	100	0.0		
	SSTL	1.0	1.0	1.0	1.0	1.0	5.0	100.0	10.0	100.0	220.0		
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Initial	420.0	398.0	234.0	262.0	16.4	168.0	648.0	50.0	500.0	2696.4		
	SSTL	326.0	398.0	234.0	262.0	16.4	168.0	648.0	50.0	500.0	2602.4	1	
MW-65	Initial > SSTL	94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Unable t	o Locate -
CO-VVIVI	Subsequent				Un	able to Locate	- Paved Ove	r				Pave	d Over
	SSTL	326.0	398.0	234.0	262.0	16.4	168.0	648.0	50.0	500.0	2602.4		
	Subsequent > SSTL				Un	able to Locate	- Paved Ove	r					
	Initial	9200.0	1000.0	1400.0	4400.0	160.0	810.0	1300.0	1000.0	10000.0	29270.0		
	SSTL	83.0	1000.0	1400.0	4400.0	160.0	108.0	1300.0	381.0	10000.0	18832.0		
MW-5AR	Initial > SSTL	9117.0	0.0	0.0	0.0	0.0	702.0	0.0	619.0	0.0	10438.0		
MAG-VIIV	Subsequent	5200	10000	810	5300	100	580	10000	1000.00	10000	42990.0		
	SSTL	83.0	1000.0	1400.0	4400.0	160.0	108.0	1300.0	381.0	10000.0	18832.0		
	Subsequent > SSTL	5117.0	9000.0	0.0	900.0	0.0	472.0	8700.0	619.0	0.0	24808.0		
	Initial	460.0	3400.0	320.0	9200.0	50.0	250.0	710.0	500.0	5000.0	19890.0		
	SSTL	58.0	11928.0	3700.0	21680.0	290.0	19298.0	1114.0	330.0	29344.0	87742.0		
PW-1R	Initial > SSTL	402.0	0.0	0.0	0.0	0.0	0.0	0.0	170.0	0.0	572.0		
FVV-IIX	Subsequent	830.0	20000.0	1200.0	14000.0	500.0	600.0	50000.0	5000.0	50000.0	142130.0		
	SSTL	58.0	11928.0	3700.0	21680.0	290.0	19298.0	1114.0	330.0	29344.0	87742.0		
	Subsequent > SSTL	772.0	8072.0	0.0	0.0	210.0	0.0	48886.0	4670.0	20656.0	62610.0		
	Initial	2600.0	19000.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	61020.0		
	SSTL	45.0	8470.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	47935.0		
DW-3	Initial > SSTL	2555.0	10530.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13085.0		
544-0	Subsequent	4300	16000	2300	11000	230	800	2600	50.000	2000	39280.0		
	SSTL	45.0	8470.0	2200.0	10000.0	1000.0	620.0	3600.0	2000.0	20000.0	47935.0		
	Subsequent > SSTL	4255.0	7530.0	100.0	1000.0	0.0	180.0	0.0	0.0	0.0	13065.0		
	Initial	130.0	2.8	23.0	36.0	17.0	6.5	340.0	2.6	23.0	580.9		
	SSTL	5.0	2.8	23.0	36.0	17.0	6.5	240.0	2.6	23.0	355.9		
SW-1	Initial > SSTL	125.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	225.0		
- VV-1	Subsequent	1	1	1	1	0.76	5	44	10	100	163.8	1	
	SSTL	5.0	2.8	23.0	36.0	17.0	6.5	240.0	2.6	23.0	355.9	]	
	Subsequent > SSTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	77.0	84.4		
	te Specific Target Level										Initial>		325262.0
	sk Based Screening Lev	vels			l	CF	RAWF	ORD			Subseque		209326.7
	ethyl Tert-Butyl Ether				l	EN	VIRONIV				COC Re	duction	35.64
	applicable				l .		SERVIC	ES					
.0 - Exclu	uded from Calculations				l								

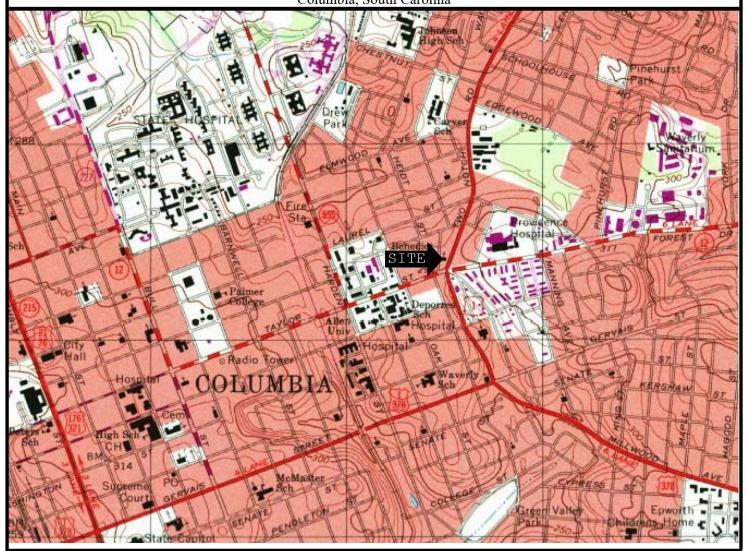
### **Figures**

Figure 1: Topographic Map
Figure 2: Site Facility Base Map
Figure 3: Groundwater Chemicals of Concern Map
Figure 4: Groundwater Elevation Map

CRAWFORD ENVIRONMENTAL SERVICES

#### FIGURE 1

Site Location Map
Handy Pantry #65 / University Mart / Clouds Chevron
Intersection of Taylor Street and Two Notch Road
Columbia, South Carolina



#### CRAWFORD ENVIRONMENTAL SERVICES

15 Church Avenue, SW Roanoke Virginia, 24011

540-343-6256 (office) 540-343-6259 (fax)

#### NORTH COLUMBIA, SOUTH CAROLINA

Source: U.S.G.S. Topographic Map of the Columbia North Quadrangle, Virginia, 7.5 Minute Series (1977, revised 1988)

Scale: 1:24,000 Contour Interval: 20 Feet
Vertical Datum: National Geodetic Vertical

Datum 1929

Horizontal Datum: North American Datum1927

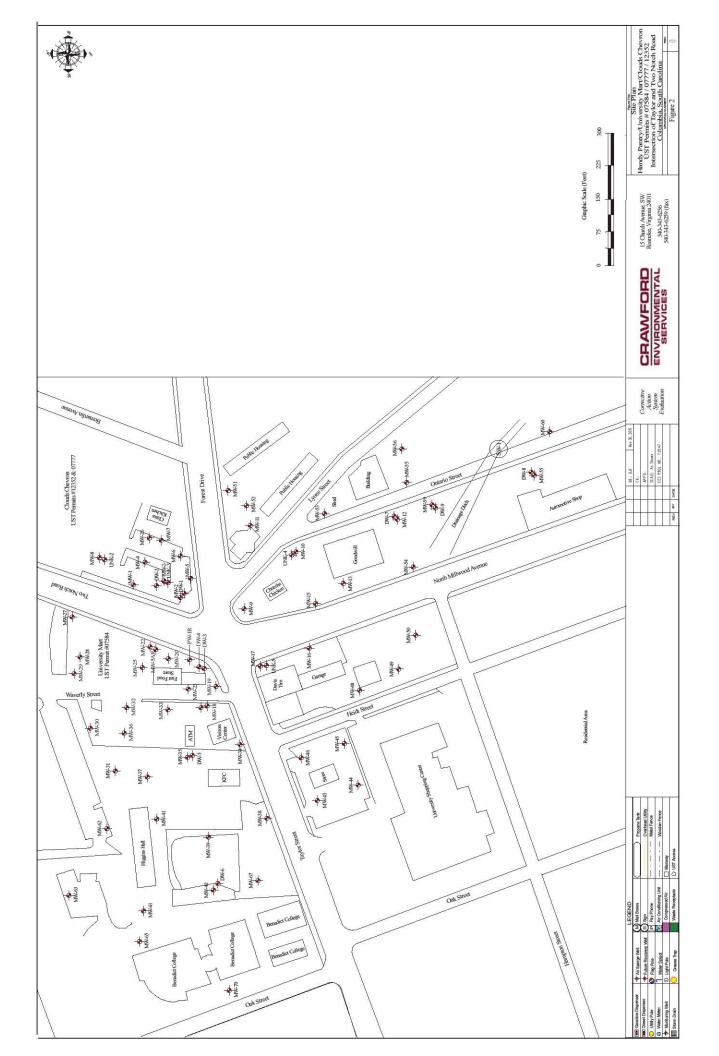
Project: CASE Report

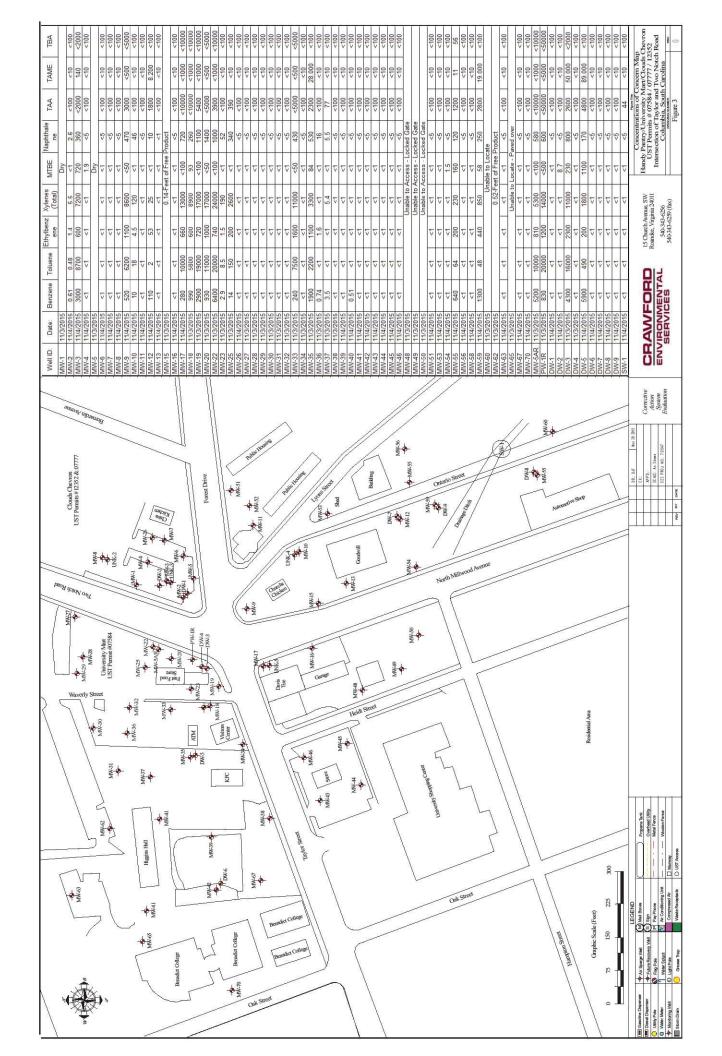
Client: SCDHEC

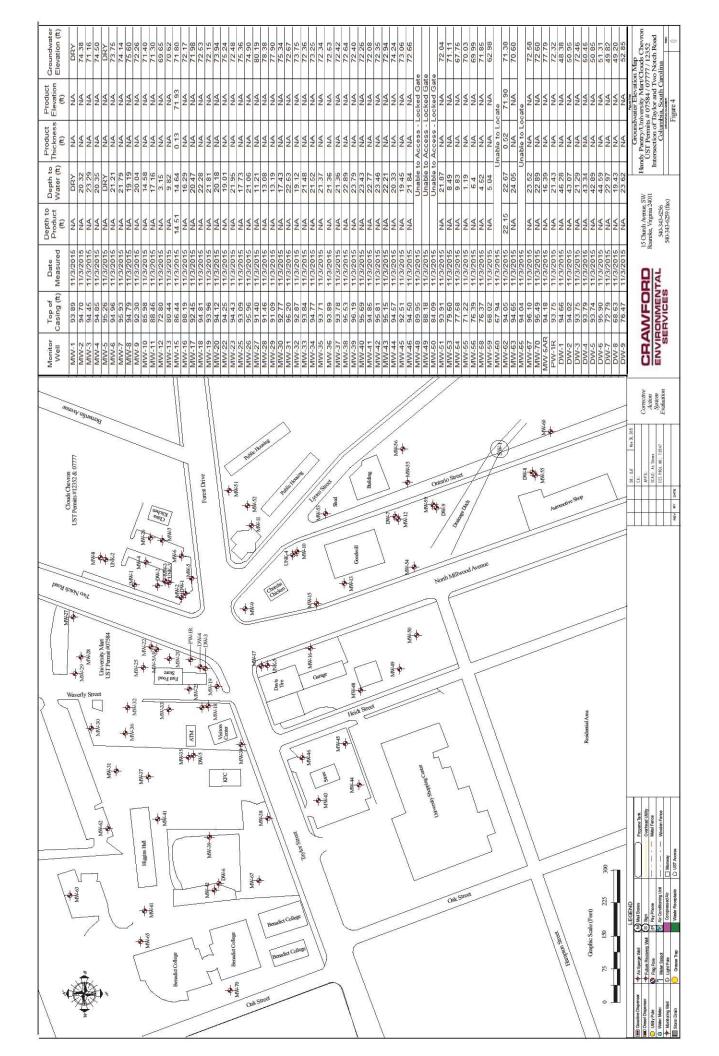
CES Job #: 7.0547



Latitude: 034"00'42.72"N Longitude: 081"01'00.13"W







#### APPENDIX A

Purge Water Disposal Manifest





November 30, 2015

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management Underground Storage Tank Management Division 2600 Bull Street Columbia, SC 29201

Re: Purge Water Report- Development & Groundwater Sampling Handy Pantry #65/University Mart & Cloud's Chevron Intersection of Taylor Street and Two Notch Road Columbia, South Carolina UST Permit # 07584 / 07777 / 12352

Dear Project Manager;

The letter presents the certification that Crawford Environmental Services (CES) treated purge waters referenced below with a granular activated carbon unit prior to discharge. This was completed in accordance with the conditions laid out in the "Proposed Conditions for use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater" produced by the SCDHEC Bureau of Water.

A total of 208 gallons were treated on November 3 and 4, 2014 for the above referenced facility.

A record of treatment is available upon request. If you have any questions or comments please feel free to contact us at 540-798-5068.

Sincerely,

Daniel Fisher
Project Manager
Crawford Environmental Services

#### **APPENDIX B**

Groundwater Sampling Data Sheets



DHEC		U	ndergrou Field	und Storage Tar Data Informatio	ık Managen n Sheet – S	nent D ampli	ivision ng		
			Site	e Information					
Date: 11 - 4 - 15   Site ID #: 07	1584	Site Nar	ne: Clar	ls Chevron	Field	Personi	Ambient	NIBE	
County: 2ichland Project Manag	ger: Den F	She	General \	Weather Conditions:	Duercas	51	Ambient	Air Temp (°F):	65
120 mars	1700.1		Qua	lity Assurance					
Meter Name	S	erial #:		Calibration: 1/es	midda	7			
YSI 63 (pH, Specific Conductivity, Tempe	erature)	And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		pH 4.0: / Dor N	pH 7.0://	or N	pH 10.0:	Øor N	S.C.: Nor N
YSI 55 (Dissolved Oxygen)				Ø or N					
LaMotte (Turbidity)				0.0 NTU: (3) or N		1.0 NT	U: Ø or N	10.0 N	NTU: Oor N
Zamoto (Carana)			We	II Information					
Well ID: Well Diamete	er (ft.): 2		Conversion	Factor (C): 1" well = 0 4" well = 0	0.047, 2" well = 0 0.652		Rail	er Pump	nple Collection:
	Other		Screened 2	Interval (ft.): to 30			al Well Depth (		0
Depth to Free Product (DFP) (ft.):	A	epth to Ground	dwater (DGV	V) (ft.): 2032	_	Fre	ee Product Thic	kness (π.):	VIA
Length of water column (LWC = TWD – DGW) (ft.):	•	casing volume		,		3 0	asing volumes	(3 x CV) (gals	i.):
		Te .	F	Purging Data					
	Initial	1 st Vol.	2 nd Vol.	. 3 rd Vol.	4 th Vol.		5 th Vol.	Post	Sampling
Volume Purged (gallons)	0								
Time (military)	1345								
PH (s.u.)	6.15								
Specific Conductivity (µS/cm)	100.0								
Water Temperature (°C)	24.3								
Turbidity (NTU)	65.2								
Dissolved Oxygen (mg/L)	1.62								·
				Sampling Data	Under Man M	1.5	yes, Duplicate	Time:	
Sampled By:		Sampling Time	1345	Dup	licate: Y or N	IT	yes, Duplicate	mine.	
Notes: No Purge			proportion that for some time to be a second		w)				
							10		

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

DHEC 0423 (10/2012)

D H E C		Un	derground Field Data	Storage Tank land Information S	Managemen Sheet – Sam	t Division pling		
Manual OF Wares			Site Info	rmation	A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA			
Date: _ U _ Site	ID#07584	Site Name	Clark	Cherron	Field Pe	rsonnel: / JL, M	LP, PE	
			General Weath	ner Conditions: Ou		Ambient A	ir Temp (°F):	65
County: Richland Pro	ject Manager: Dan	Fisher			ercast			, ,
			•	ssurance				
Meter Name		Serial #:		bration: 1/es	Moday	/	2 11	S.C. Por N
YSI 63 (pH, Specific Conductive	vity, Temperature)		1 '	4.0: (Y) or N	pH 7.0: Sor	N pH 10.0: (2	or N	5.00 10
YSI 55 (Dissolved Oxygen)			Ro	or N				
LaMotte (Turbidity)			0.0	NTU: 7 or N	1.	0 NTU: Or N	10.0 NTL	J: (For N
Edivioles (Taristany)				ormation				
110	(all Diameter (ft ):			or (C): 1" well = 0.04	7, 2" well = 0.16,	Method of	Purging/Sample	e Collection:
Well ID: NW-3	/ell Diameter (ft.): 2		70111010101111 0.00	4" well = 0.65	52	Baile	erPump	
MWIWRW	Other		Screened Interv			Total Well Depth (T	^{WD) (ft.):} フ ′	9
	c WSW	<u> </u>	19 (DC)(A) (ft)	to 29		Free Product Thick	ness (ft.):	1/1
Depth to Free Product (DFP)	(ft.): N/A	Depth to Groundw	ater (DGVV) (it.)	20.15			170	///
Length of water column		1 casing volume (	CV = 1/MC × C)	(nale ):		3 casing volumes (	3 x CV) (gals.):	
(LWC = TWD – DGW) (ft.):		1 casing volume (		ng Data				
		4811/61	2 nd Vol.	3rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
	Initial	1 st Vol.	Z VOI.	3 VOI.				
Volume Purged (gallons)	0							
Time (military)	1350							
PH (s.u.)	5.71							
Specific Conductivity (µS/cm								
Water Temperature (°C)	25.5							
Turbidity (NTU)	65.3							
Dissolved Oxygen (mg/L)	0.90						1	
			Samp	ling Data				

Sampled By:
Notes:

Sampling Time:

Duplicate: Y or N

If yes, Duplicate Time:

_Signature: _

D H E C		U	Indergro Field	und Storage Tank Data Information S	Manageme Sheet – San	nt Division npling		
W 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			Sit	e Information				
Date: 11-4-15 Site	ID#:07584	Site Na	me: Cloud	s Charon	Field Pe	ersonnel: BEM  Ambient	o we	
		Fisher	General	Weather Conditions:	orcast	- Ambient	Air Temp (°F):	65
County: Richland Proj	lon	71)40		lity Assurance	0 00-51			
Meter Name		Serial #:	acua	1 =	rollay			
	it. Tamanaratura)			pH 4.0: (7) or N	pH 7.8.19 or	N pH 10.0	9 or N	S.C. or N
YSI 63 (pH, Specific Conductiv	ity, remperature)			Por N	p y			
YSI 55 (Dissolved Oxygen)				,		.0 NTU: Ø or N	100 N	ITU: Dor N
LaMotte (Turbidity)				0.0 NTU: // or N		.0 N10. 29 01 N	10,01	
				II Information				
Well ID: NW-Y We	ell Diameter (ft.): Z	(	Conversion	n Factor (C): 1" well = 0.04 4" well = 0.6	17, 2" well = 0.16 52	Rail	er Pumn	ple Collection:
MW IW _RW	Other		Screened / 8	Interval (ft.): to 2%		Total Well Depth (		8
Depth to Free Product (DFP) (		Depth to Ground	dwater (DGV	V) (ft.): 20.35		Free Product Thic	kness (ft.):	1/4
Length of water column (LWC = TWD – DGW) (ft.):	NIA	1 casing volume		,		3 casing volumes	(3 x CV) (gals	.):
		1		Purging Data				
	Initial	1 st Vol.	2 nd Vol	. 3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)	Ô							
Time (military)	1340							
PH (s.u.)	7.94							
Specific Conductivity (µS/cm)		-						
Water Temperature (°C)	245							
Turbidity (NTU)	154							
Dissolved Oxygen (mg/L)	2.10							<u>.                                      </u>
				Sampling Data				
Sampled By:		Sampling Time	: 134C	) Duplica	te: Y or N	If yes, Duplicate	lime:	
Notes:								

_Signature: _

D H E C				Undergro Field	und Storage Tanl Data Informatior	k Manage n Sheet –	ement Div Sampling	ision J		
N //252				Site	e Information					
Detai	Site ID#	noed	Site N	ame: ( )	l's Cheuron	Fie	eld Personnel	Ambient Air	W	
Date: 11 -3-15	Site ID #: 6	nager: Don		General	Weather Conditions:	INVEST		Ambient Air	Temp (°F):	650
County: Richland	Froject ivia	Van 1	Fisher		llity Assurance	000007				
			Serial #:	Qua	Calibration: 1/2					
Meter Name			Seliai #.		pH 4.0: Y or N	nH 7 0	Y or N	pH 10.0: Y	or N	S.C.: Y or N
YSI 63 (pH, Specific Cor	nductivity, Ten	nperature)				pi 1 1.0.	1 01 11			
YSI 55 (Dissolved Oxyge	en)				Y or N		4 O NITH	V or N	10.01	NTU: Y or N
LaMotte (Turbidity)					0.0 NTU: Y or N		1.0 NTO:	Y or N	10.01	VIO. 1 01 11
Editions (1500)				We	ell Information					
Well ID:	Well Dian	meter (ft.): 2	1¢	Conversion	n Factor (C): 1" well = 0. 4" well = 0	.047, 2" well =		Bailer	Pump	nple Collection:
XMW IW	_RW	Other		Screened	Interval (ft.):  18 to 28		Total	Well Depth (TV	VD) (ft.):	28
Private WSW Depth to Free Product (	Public WSW DFP) (ft.):	1/12	Depth to Grou	ındwater (DGV			Free	Product Thickn	ess (ft.):	V/A
Length of water column		J	1 casing volum	me (CV = LWC	C x C) (gals.): /-86		3 cas	sing volumes (3	x CV) (gal	s.): 5.59
(LWC = TWD – DGW) (	(ft.): 1/-6	7	1 casing votal		Purging Data					
		Initial	1 st Vol.	2 nd Vo		4 th Vo	1.	5 th Vol.	Post	Sampling
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	-1	Hillian	DOY							
Volume Purged (gallon	S)	ACD	855							
Time (military)		6.57	6.56							
PH (s.u.)	(Clom)	242.1	491.0							
Specific Conductivity (			23.6							
Water Temperature (°C	·)	23.9	over							
Turbidity (NTU)		1.55	1.81							
Dissolved Oxygen (mg	3/L)	1.00	(, 0 (		Sampling Data					
Sampled By: Will,	BE		Sampling Tir			icate: Y or <u>(</u>	N If ye	es, Duplicate Tir	ne:	
Notes: No 13011	- 3	6n   st	Jol							

DAEC	L	Inderground Field Da	d Storage Tank ta Information	Managemen Sheet – Sam	t Division pling		
		Site In	formation				16
Date: 11- 4-15 Site ID #: 07584	Site Na		1 Charon	Field Per	1/10/1	MP, W	H
County: Richland Project Manager: Dan	Fisher	General Wea	ther Conditions:	u cast	Ambient	Air Temp (°F):	65
preducts.		Quality	Assurance				
Meter Name	Serial #:	C	alibration: Les	Milday			
YSI 63 (pH, Specific Conductivity, Temperature)		pl	14.0: <b>D</b> or N	pH 7.0: 10 or	N pH 10.0:	Oor N	S.C.://Dor N
YSI 55 (Dissolved Oxygen)			or N				
LaMotte (Turbidity)		0	O NTU: (Y or N	1.	0 NTU: (1) or N	10.0 N	NTU: (Y) or N
		Well I	nformation				
Well ID: MW-6 Well Diameter (ft.): 2		Conversion Fa	ctor (C): 1" well = 0.0 4" well = 0.6	047, 2" well = 0.16, 652	Rai	ler Pump	nple Collection:
MW IW RW Other Private WSW Public WSW		Screened Inte	0 to 30		Total Well Depth (		
Depth to Free Product (DFP) (ft.):	Depth to Groun	dwater (DGW) (f	t.): 71.21		Free Product Thic	kness (ft.):	1/A
Length of water column		e (CV = LWC x C			3 casing volumes	(3 x CV) (gals	s.):
(LWC = TWD – DGW) (ft.):	1 odoling volum		ging Data				
Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)							
Time (military) /33 >							
PH (s.u.) 6.17							
Specific Conductivity (µS/cm) /5/							
Water Temperature (°C) 24.5							
Turbidity (NTU) 63, 4							
Dissolved Oxygen (mg/L) 1.73		0	anling Data				
	O E Time		npling Data	ate: Y or N	If yes, Duplicate	Time:	
Sampled By:	Sampling Time	1570	Duplic	G.C. 1 OI IV	1,		
Notes: No Purge				E+2			
				Signa	ture:		

D H E C		U	ndergrou Field I	nd Storage Tank   Data Information S	Managemer Sheet – Sam	t Division pling		-
TO THE PROPERTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF			Site	Information				
Date://_ 4_ / Site ID #:/	17604	Site Nan	ne: floud	1	Field Pe	rsonnel: $\mathcal{BE}_{\mathcal{M}}$	PUH	
11-1-10	1/10/		General V	Veather Conditions:	er - st	Ambient Ai	r Temp (°F):6	7
County Richland Project Ma	Da t	ishe			Casi			
		0-1-14	Quai	ity Assurance Calibration: \/				-
Meter Name		Serial #:		-105,1	pH 7.0:20 or	N pH 10.0:	Zor N	S.C.: NOT N
YSI 63 (pH, Specific Conductivity, Ter	mperature)			pH 4.0: (Y) or N	pH 7.0.79 01	N pri 10.0.2	OI IV	
YSI 55 (Dissolved Oxygen)				Por N				
LaMotte (Turbidity)	.,			0.0 NTU: O or N	1.	0 NTU: /P or N	10.0 NTU:	P or N
			We	I Information				
Well ID: Well Diam	meter (ft.):		Conversion	Factor (C): 1" well = 0.04 4" well = 0.68	7, 2" well = 0.16	Bailer	Purging/Sample rPump	Collection:
MW _IW _RW	Other		Screened I	nterval (ft.): 2 o to 3 o		Total Well Depth (TV	ND) (ft.):	D
Private WSWPublic WSW  Depth to Free Product (DFP) (ft.):	11/0	Depth to Ground	water (DGW	) (ft.): 71.79		Free Product Thickr	ness (ft.):	14
	V/4	200		21.79				
Length of water column (LWC = TWD - DGW) (ft.):		1 casing volume	(CV = LWC	x C) (gals.):		3 casing volumes (3	3 x CV) (gals.):	-
(EVVO = 1 VVB   B = VV) (i.e.):		1	Р	urging Data				-
	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1325							
PH (s.u.)	6.29							
Specific Conductivity (µS/cm)	255.6	,						
Water Temperature (°C)	22.5							
Turbidity (NTU)	244							
Dissolved Oxygen (mg/L)	1.94							
2.553.155 2-1,5-1 (115 )	1 7		S	ampling Data	,			
Sampled By:		Sampling Time	1325	Duplica	te: Y or 🕦	If yes, Duplicate Ti	me:	

_Signature: _ True

D	H	E	$\mathbf{C}$

				Site Info	rmation				
) oto: 11	Site ID #:	MERU	Site Na	me: Clouds C	heuron	Field Pe	rsonnel: 3E,	MP, WH	-
Date: 11-4-15	Project M	07584 anager:Dan F		General Weath	er Conditions: Ou	vcast	Ambien	t Air Temp (°F):	65
ounty: Richland	Trojoca	Van F	- she	Quality A					
			Serial #:			Marrias			
leter Name	T.			pH 4	1.0: (Y) or N	Morning pH 7.0: Oor	N pH 10.0	Or N	S.C.:(Y) or N
SI 63 (pH, Specific Cor		emperature)		(P)o	-				^
SI 55 (Dissolved Oxyg	en)				NTU: Ø or N	1	.0 NTU: (Y) or N	10.0 NT	U: (Y)or N
aMotte (Turbidity)									
				Well Info	ormation	47 2" well = 0.16	Method	of Purging/Sampl	le Collection:
Vell ID:	Well Dia	ameter (ft.):		Conversion Facto	or (C): 1" well = 0.04 4" well = 0.6	652	100	ailer Pumn	
MW-9	RW	Other		Screened Interva	al (ft.):		Total Well Depth	(TWD) (ft.):	2
Private WSW	Public WSV	V		70	to 30			ickness (ft.):	
Depth to Free Product (	(DFP) (ft.):	NIA	Depth to Groun	dwater (DGW) (ft.):	20.04		1100110000		100
ength of water column				- (CV = LMC × C)	uale ).		3 casing volume	es (3 x CV) (gals.):	
(LWC = TWD - DGW)	(ft.):		1 casing volum	e (CV = LWC x C) (	ng Data				
			1st Vol.	2 nd Vol.	3rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
		Initial	1 ³⁵ VOI.	2 voi.					
Volume Purged (gallon	s)	0							
Time (military)		1010							
PH (s.u.)		5.95							
Specific Conductivity (		231.0							
Water Temperature (°C	C)	24.3							
Turbidity (NTU)		39.2							
Dissolved Oxygen (mg	g/L)	493		Samn	ling Data				
			O Line Time			ate: Y or N	If yes, Duplicat	e Time:	
Sampled By:			Sampling Tim	e: 1010	- 24				
Notes: NO PS	ge								
1	/					Sign	ature:	10	
						WILLONIMENT			

D H E C		l	Jndergrou Field	ind Storage Tank Data Information	Managen Sheet – S	nent Di Samplin	vision Ig		
	And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		Site	Information					
Date: 11_4_/_ Site	D#:07584	Site Na	1 100	ds Chavran	Field	Personn	el: BE, Mi Ambient Air	P, W4	
County: 0 - 1 / 0 Pro	oject Manager:	Fisher	General V	Veather Conditions: Qu	vest		Ambient Air	Temp (°F):	65
Kirhland	Pan	TIDA		ity Assurance				21.100	
Meter Name		Serial #:		Calibration: Vas	wild	6-			
	with Tomporatura)			pH 4.0: (2) or N	pH 7.0:0	or N	pH 10.0: Ø	or N	S.C. YOr N
YSI 63 (pH, Specific Conducti	vity, remperature)			YOO N					
YSI 55 (Dissolved Oxygen)				0.0 NTU://9 or N		1.0 NTI	U: Ø or N	10.01	NTU: Øor N
LaMotte (Turbidity)									
				II Information		2.10	Distant of F	Jurging/Cor	nple Collection:
Well ID: MW - 8	Vell Diameter (ft.): ブ		Conversion	Factor (C): 1" well = 0.0- 4" well = 0.6	47, 2" well = 0 652	).16,	Bailer	Pump	)
MW IW RW	Other		Screened I	nterval (ft.):		Tota	al Well Depth (TV	VD) (ft.):	28
Private WSWPubli	c WSW	Depth to Groun		8.5 to 28		Free	e Product Thickn		
Depth to Free Product (DFP)	(ft.): N/A	Depth to Groun	idwater (DGVV	) (tt.): 19.99				/	0/2
Length of water column		1 casing volum	e (CV = LWC	x C) (gals.):		3 ca	asing volumes (3	x CV) (gal	s.):
(LWC = TWD – DGW) (ft.):		7 Gabing voicin		urging Data					
	Initial	1 st Vol.	2 nd Vol.	3rd Vol.	4 th Vol.		5 th Vol.	Post	Sampling
Volume Purged (gallons)	0								
Time (military)	1320								
PH (s.u.)	6,47								
Specific Conductivity (µS/cm		>							
Water Temperature (°C)	25.1								
Turbidity (NTU)	25.1								
Dissolved Oxygen (mg/L)	1.51								,
				sampling Data	ator V or Al	) If v	res, Duplicate Tir		
Sampled By:		Sampling Tim	e: 1320	Duplica	ate: Y or N		rea, Duplicate III		
Notes: No Pura	v				**				

_Signature: _

D	Н	E	C
	9 7		7

Mell Information   Mell Diameter (ft.):   Conversion Factor (C): 1" well = 0.047, 2" well = 0.16,	1:65
Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Cali	):65
Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Calibration:   Cali	
Serial #:   Calibration:   Serial #:   Calibration:   Serial #:   Calibration:   Serial #:   Calibration:   Serial #:   Calibration:   Serial #:   Calibration:   Serial #:   Calibration:   Serial #:   Calibration:   Serial #:   Calibration:   Serial #:   Calibration:   Serial #:   Calibration:   Serial #:   Calibration:   Serial #:   Calibration:   Serial #:   Calibration:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:   Serial #:	
SI 63 (pH, Specific Conductivity, Femperature)  SI 55 (Dissolved Oxygen)  aMotte (Turbidity)  Well Information  Well Information  Well Information  Well Information  Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, BailerPu	
SI 63 (pH, Specific Conductivity, Pemperature)  SI 55 (Dissolved Oxygen)  aMotte (Turbidity)  Well Information  Well Information  Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16,	S_C.: Yor N
Mell Diameter (ft.):   Mell Diameter (ft.):   Conversion Factor (C): 1" well = 0.047, 2" well = 0.16,	
Well Information  Well Information  Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16,	NTU: O Or N
Well ID:   Well Diameter (ft.):   Conversion Factor (C): 1" well = 0.047, 2" well = 0.16,	
Well   Diameter (ft.): 2	ample Collection:
MW IW Public WSW Private WSW Public WSW Depth to Free Product (DFP) (ft.):  Length of water column (LWC = TWD – DGW) (ft.):  Purging Data  Initial 1st Vol. 2nd Vol. 3rd Vol. 4th Vol. 5th Vol. Post  Volume Purged (gallons)  Time (military) PH (s.u.) Specific Conductivity (μS/cm) Water Temperature (°C) Turbidity (NTU)  Pissolved Oxygen (mg/L)  Screened Interval (ft.):  Recended Interval (ft.):  Screened Interval (ft.):  Pree Product Thickness (ft.):  Purging Data  1 casing volumes (3 x CV) (gals.):  Purging Data  1 casing volume (CV = LWC x C) (gals.):  Purging Data  1 casing volumes (3 x CV) (gals.):  Purging Data  1 casing volumes (3 x CV) (gals.):  Purging Data  1 casing volumes (3 x CV) (gals.):  Purging Data  1 casing volumes (3 x CV) (gals.):  Purging Data  1 casing volumes (3 x CV) (gals.):  Purging Data  1 casing volumes (3 x CV) (gals.):  Purging Data  1 casing volumes (3 x CV) (gals.):  Purging Data  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  2 casing volumes (3 x CV) (gals.):  2 casing volumes (3 x CV) (gals.):  2 casing volumes (3 x CV) (gals.):  2 casing volumes (3 x CV) (gals.):  2 casing volumes (3 x CV) (gals.):  3 casing volumes (3 x CV) (gals.):  4 casing volumes (3 x CV) (gals.):  2 casing volumes (3 x CV) (gals.):  2 casing volumes (3 x CV) (gals.):  2 casing volumes (3 x CV) (gals.):  3 casing volumes (3 x CV) (gals.):  4 casing volumes (a x CV) (gals.):  2 casing volumes (a x CV) (gals.):  2 casing volumes (a x CV) (gals.):  2 casing volumes (a x CV) (gals.):  2 casing volumes (a x CV) (gals.):  3 casing volumes (a x CV) (gals.):  4 casing volumes (a x CV) (gals.):  4 casing volumes (a x CV) (gals.):  4 casing volumes (a x CV) (gals.):  4 casin	np
Private WSW Public WSW  Depth to Free Product (DFP) (ft.):	70
Depth to Free Product (DFP) (ft.):  Length of water column (LWC = TWD – DGW) (ft.):  Purging Data  Initial  Ist Vol.  Volume Purged (gallons)  Time (military)  PH (s.u.)  Specific Conductivity (µS/cm)  Value (Purgent (DGW) (ft.): 19.58  I casing volumes (3 x CV) (gals.):  3 casing volumes (3 x CV) (gals.):  Purging Data  Initial  Ist Vol.  2nd Vol.  3rd Vol.  4th Vol.  5th Vol.  Post  PH (s.u.)  Specific Conductivity (µS/cm)  Value (Purgent (PC)  Value (Purgent (DGW) (ft.): 19.58  I casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (3 x CV) (gals.):  1 casing volumes (a x CV) (gals.):  1 casing volumes (a x CV) (gals.):  1 casing volumes (a x CV) (gals.):  1 casing volumes (a x CV) (gals.):  1 casing volumes (a x CV) (gals.):  1 casing volumes (a x CV) (gals.):  1 casing volumes (a x CV) (gals.):  1 casing volumes (a x CV) (gals.):  1 casing volumes (a x CV) (gals.):  1 casing volumes (a x CV) (gals.):  1 casing volumes (a x CV) (gals.):  1 casing volumes (a x CV) (gals.):  2 casing volumes (a x CV) (gals.):  2 casing volumes (a x CV) (gals.):  2 casing volumes (a x CV) (gals.):  2 casing volumes (a x CV) (gals.):  2 casing volumes (a x CV) (gals.):  2 casing volumes (a x CV) (gals.):  2 casing volumes (a x CV) (gals.):  3 casing volumes (a x CV) (gals.):  3 casing volumes (a x CV) (gals.):  3 casing volumes (a x CV) (gals.):  4 casing volumes (a x CV) (gals.):  4 casing volumes (a x CV) (gals.):  4 casing vol	
Length of water column   1 casing volume (CV = LWC x C) (gals.):   3 casing volumes (3 x CV) (gals.):   3 casing volumes (3 x CV) (gals.):   5 th Vol.   Post   1 to Vol.   2 to Vol.   3 to Vol.   4 to Vol.   5 th Vol.   Post   Volume Purged (gallons)   0   0   0   0   0   0   0   0   0	NIA
CLWC = TWD - DGW) (ft.):	als.):
Initial	
Volume Purged (gallons)  C  Time (military)  PH (s.u.)  Specific Conductivity (μS/cm)  Water Temperature (°C)  Turbidity (NTU)  Piesolved Oxygen (mg/L)  Vol.  2 vol.  2 vol.  5 vol.  5 vol.  5 vol.  5 vol.  5 vol.  5 vol.  5 vol.  5 vol.  5 vol.  5 vol.  5 vol.  5 vol.  5 vol.  5 vol.  5 vol.  5 vol.  5 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  6 vol.  7 vol.  6 vol.  7 vol.  7 vol.  7 vol.  7 vol.  7 vol.  8 vol.  7 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.  8 vol.	Samplin
Time (military)  PH (s.u.)  Specific Conductivity (μS/cm)  Water Temperature (°C)  Turbidity (NTU)  Pissolved Oxygen (mg/L)  2.29	
PH (s.u.)  Specific Conductivity (μS/cm)  Vater Temperature (°C)  Turbidity (NTU)  Pissolved Oxygen (mg/L)  2.29	
Specific Conductivity (µS/cm)         100 , §           Water Temperature (°C)         24.5           Turbidity (NTU)         42 (           Dissolved Oxygen (mg/L)         2.29	
Water Temperature (°C)         24.5           Turbidity (NTU)         42.4           Dissolved Oxygen (mg/L)         2.29	
Turbidity (NTU)  Pissolved Oxygen (mg/L)  2.29	
Dissolved Oxygen (mg/L) 2.29	
Dissolved Oxygen (mg/L)	
Sampling Data	
Sampling Time: 1015 Duplicate: Y or N If yes, Duplicate Time:	
Sampled By:	
Notes:	
Signature: 7. Level	

1)	H	E	C
	87	7	
P			

			Site Info				- 2	
eta: 11 1/ 1 Site	D#N7-AU	/ Site Nam	ne: Clauds	Cheuron	Field Pe	rsonnel: WH/	UP, BE	
ate: 11-4-15 Site	D#: 07584		General Weath	er Conditions:	ercast	Ambient /	Air Temp (°F):6	5
ounty: Richland Proje	ect Manager: Dun	FINE	Quality A	00	0 2097			
		10:1"	Quality A		11			
eter Name		Serial #:	Odii	bration: Yes, 1	Monhing pH 7.0: Dor	N pH 10.0	Yor N	S.C. Dor N
SI 63 (pH, Specific Conductivi	ty, Temperature)				pr17.0.23 or	.	0	
SI 55 (Dissolved Oxygen)			Po			ONELL Was N	10.0 NTI	U: O or N
aMotte (Turbidity)			0.0	NTU: / or N	1	.0 NTU: Nor N	10.0 NT	۱۱ اه لوم.ق
AMORE (Tariotally)			Well Inf	ormation				
I Mo	II Diameter (ft.):		Conversion Factor	or (C): 1" well = 0.04	7, 2" well = 0.16	, Method of	f Purging/Sample erPump	e Collection:
Vell ID: NW-11 We	2			4"  well = () 65	2	Total Well Depth (	TAID) (61).	
MW RW	Other		Screened Interv	al (ft.): Unkno	101.1	Total Well Depth (	^{1 (νι.):} 3	0
Private WSWPublic		Donth to Ground	lwater (DGW) (ft.)		00 10	Free Product Thic	kness (ft.):	MA
Depth to Free Product (DFP) (		Depti to croane		17.16				V
ength of water column		1 casing volume	(CV = LWC x C)	(gals.):		3 casing volumes	(3 x CV) (gals.):	
LWC = TWD – DGW) (ft.):		1 odding remin		ng Data				
	Initial	1st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
	O							
Volume Purged (gallons)								
Time (military)	100							
PH (s.u.)	V							
Specific Conductivity (µS/cm)	105.2	-						
Water Temperature (°C)	225	10						
Turbidity (NTU)	969 58	ID .						
Dissolved Oxygen (mg/L)	2.00		Samr	oling Data				
					te: Y or N	If yes, Duplicate	Time:	
Sampled By:		Sampling Time	1160	Барпоа				
Notes:								
					Sign	ature:	2	_
					5igi1			

D	H	E	$\mathbb{C}$
	<b>.</b>		
80			

		Site Info	rmation		> -				
Date: 11-4-15 Site ID #: 07584	Site Nar	ne: Claude	Cheuron		ersonnel: BE	NP WH at Air Temp (°F):			
Date: 11-4-15 Site ID#: 07584  County: Project Manager: Par	Licher	General Weath	er Conditions: Out	ercast	Ambier	nt Air Temp (°F):	65		
per concessor of the	(1)		ssurance						
Meter Name  Serial #: Calibration: \( \sum_{\text{c}} \) \( \lambda_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \sum_{\text{N}} \) \( \su									
YSI 63 (pH, Specific Conductivity, Temperature)		рН	4.0: Ø or N	pH 7.0: 🏕 or	N pH 10.0	: OP or N	S.C. >> or N		
YSI 55 (Dissolved Oxygen)		0	r N						
LaMotte (Turbidity)		0.0	NTU: Or N	1	.0 NTU: 🥟 or N	10.0 N	TU: Or N		
		Well Inf	ormation						
Well ID: Well Diameter (ft.):			or (C): 1" well = 0.04 4" well = 0.65	52	Do	of Purging/Samp ailerPump			
MW _IW _RW _Other Private WSW _Public WSW		Screened Interv	to Unknow	$\sim$	Total Well Depth (TWD) (ft.): Z7.65				
Depth to Free Product (DFP) (ft.):	Depth to Ground	lwater (DGW) (ft.)	3.15	Free Product Thi	ickness (ft.):	VIA			
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume	(CV = LWC x C)	gals.):		3 casing volume	s (3 x CV) (gals.)	):		
		Purgi	ng Data						
Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling		
Volume Purged (gallons) 6									
Time (military) 11.15									
PH (s.u.) 7.62									
Specific Conductivity (µS/cm) 306.1									
Water Temperature (°C) 23.9									
Turbidity (NTU) 156									
Dissolved Oxygen (mg/L) 2 .23		2	line Data	1					
	O E. a. Tima.		ing Data	e: Y or N	If yes, Duplicate	Time'			
Sampled By:	Sampling Time:	B1112	Duplicati	e. 1 01( 1V)	ii yes, Dupilcate	, 11110.			
Notes:				Xe ²			-		
		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		Ciana	ature: 7		>		

D	H	E	$\mathbf{C}$
200	E	2	

			Site Info	rmation					
Site ID #	175/11	Site Na		Cherron	Field P	ersonnel: MP, G	BEINH		
Date: 11-4-15 Site ID # County: Richland Project N	07584 Manager: Dan F	51	General Weath	ner Conditions:	Nerrat	ersonnel: MP, B Ambier	nt Air Temp (°F):	6.5	
County: Richland Project in	nanager. Dant	Wher			cocas,				
				ssurance	1				
Meter Name		Serial #:	Call	ibration: Yes, M 4.0: Ø or N	Corner	N DH 10.0	OF N	S.C. Por N	
'SI 63 (pH, Specific Conductivity, T	emperature)				pH 7.0:9	pri 10.0	7.20 01 11		
(SI 55 (Dissolved Oxygen)			6.	or N			40.0 N	TH. War N	
aMotte (Turbidity)			0.0	NTU: Oor N	-	1.0 NTU: Ø or N	10.0 N	TU: Øor N	
			Well Inf	ormation					
Well ID: Well Di	ameter (ft.):		Conversion Fact	or (C): 1" well = 0.04 4" well = 0.6	47, 2" well = 0.10 52	Ba	of Purging/Sam ailerPump	ple Collection:	
MW IW RW	Other	No.	Screened Interv	al (ft.): to		Total Well Depth (TWD) (ft.):			
Private WSW Public WS\ Depth to Free Product (DFP) (ft.):	V V	Depth to Groun	dwater (DGW) (ft.)		~	Free Product Thickness (ft.):			
Length of water column (LWC = TWD – DGW) (ft.):		1 casing volume	e (CV = LWC x C)	(gals.):		3 casing volume	es (3 x CV) (gals.	):	
(LVVC = TVVD - DGVV) (IL.).				ng Data					
	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling	
Volume Purged (gallons)	0								
Time (military)	1030								
PH (s.u.)	6.63								
Specific Conductivity (µS/cm)	106.5								
Water Temperature (°C)	244								
Turbidity (NTU)									
Dissolved Oxygen (mg/L)	246		-						
Discorted Oxygon (mg/			Samp	oling Data					
Sampled By:		Sampling Time	: 1030	Duplica	ate: Y or N	If yes, Duplicat	e Time:		
Notes: No Purge									
Notes: ///									
					Sign	nature:			

	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		
D	H	E	C
			1

			Site	Information			- 0	
)ate: 11 / 15	Site ID #: 07584	Site I	Name: Cloud!	s Cheuron	Field F	ersonnel: BE 4	St. MP	
Date: 11-3-15 County: 0: 1/4	Site ID #: 07584 Project Manager: Par	Fisher	General W	eather Conditions:	recast	Ambie	nt Air Temp (*F):	57°
Kilhaud	Var	risher	Qualit	v Assurance				
/leter Name		Serial #:		Calibration: Yes.	Verhing +	Nidolay		
	dustivity Tomperature)			pH 4.0: or N	pH 7:0:	r N pH 10.	0:Oor N	S.C. Yor N
'SI 63 (pH, Specific Cor				Or N				
/SI 55 (Dissolved Oxyge	:n)			0.0 NTU: Por N		1.0 NTU: Por I	10.0 NT	U: (Y) r N
aMotte (Turbidity)								
				Information actor (C): 1" well = 0.0	047 2" well = 0.1	6 Method	d of Purging/Samp	le Collection:
Well ID: NW-15	Well Diameter (ft.):	2"	Conversion i	-actor (C). 1 well = 0. $4$ " well = 0.	652	1	BailerPump	
	RWOther		Screened In			Total Well Dept	h (TWD) (ft.):	S
Private WSW	Public WSW		/5	to 25	Free Product T	hickness (ft.):		
Depth to Free Product (	OFP) (ft.): 14.51	Depth to Gro	undwater (DGW)	(ft.): 14.63			0	.12
Length of water column		4 seeing volu	ıme (CV = LWC x	C) (gals ):		3 casing volum	es (3 x CV) (gals.)	
(LWC = TWD - DGW) (	t.):	1 casing voic		urging Data				
	Initial	1 st Vol.	2 nd Vol.	3rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
		1 1011						
Volume Purged (gallons	9)							
Time (military)								
PH (s.u.)  Specific Conductivity (L.	S/cm)							
Water Temperature (°C								
Turbidity (NTU)								
Dissolved Oxygen (mg	1)							
Dissolved Oxygen (mg	-/		Sa	ampling Data				
Sampled By: Not	-Sunoled	Sampling Ti	me:	Duplio	cate: Y or N	If yes, Duplica	te Time:	
700)	-Sampled Product							
Notes: Fee	Product						/	
7.00						nature:		
OHEC 0423 (10/2012)	SOUT	TH CAROLINA D	EPARTMENT	OF HEALTH AND E	NVIRONMEN'	TAL CONTROL		

D	Н	E	$\mathbf{C}$
	2 7	73 5	-

				T = 1		ormation	Field Pa	ersonnel: RE	= 119	> 1.14		
ate: 11-4-15	Site ID #:	07584		Site Nai	me: Clouds	Cherron		Personnel: BE, MP, WH Ambient Air Temp (°F): 65				
ounty: Richland		anager: Da	Fish	Fisher General Weather Conditions: Overcas				7 11116			63	
Cichian						Assurance						
leter Name			Serial	#:	Ca	libration: Yes, 14.0: Or N	Morning			T	S.C.: Oor N	
SL63 (nH. Snecific Co.	I 63 (pH, Specific Conductivity, Temperature)				pl	14.0: (Dor N	pH 7.0/19 or	N pH 1	0.0:00	or N	S.C.ZDOF N	
SI 55 (Dissolved Oxyg					R	or N		0				
					0.	ONTU: Por N	1	.0 NTU: O or	N	10.0 N	ITU: Oor N	
aMotte (Turbidity)						formation						
		(5)				ctor (C): 1" well = 0.0	047. 2" well = 0.16	s, Meth			ple Collection:	
Vell ID: MW-16	Well Dia	meter (ft.): 2	10		Conversion rad	4" well = 0.	652		_Bailer _	Pump		
NAVA IVA	RW	Other			Screened Inter	val (ft.):	Total Well Depth (TWD) (ft.):					
Private WSWPublic WSW					Screened Interval (ft.):  15 to 75  pth to Groundwater (DGW) (ft.):  16.29					ss (ft.):	1//4	
Depth to Free Product (	DFP) (ft.):	NA	Depth	to Groun	dwater (DGVV) (II	16.29					0///	
ength of water column			4	ing volum	e (CV = LWC x C	(dals ):		3 casing volu	ımes (3 x	CV) (gals	.):	
(LWC = TWD - DGW)	(ft.):		1 Cas	ing volum		ing Data						
		Laikiel	1	st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.		Post	Sampling	
		Initial		VOI.								
Volume Purged (gallon	s)											
Time (military)		940										
PH (s.u.)	21 \	6.37										
Specific Conductivity (		286.9	_									
Water Temperature (°C	<del></del>	25.1										
Turbidity (NTU)												
Dissolved Oxygen (mg	g/L)	1.97			Sam	pling Data						
			Com	npling Time			cate: Y or N	If yes, Dupli	cate Tim	e:		
Sampled By:			Sam	ipiirig rime	170	1300						
Notes: No Pu	~0											

D	H	E	$\mathbf{C}$
	2 7	3	

				Site	Information				- \( \( \)		
ate: 11 14 1	Site ID #:	77544	Site	e Name: Cloud	s Cheuron		Field Pe	rsonnel: BE,	MP, WH		
ounty: 22 Chlad	Project Ma	inager: Day		General V	Veather Conditio	ns: Over	Pield Personnel: BE, MP, WH  Duercast Ambient Air Temp (°F): 65				
Cichard		Cool	1 3 20		ity Assurance						
leter Name			Serial #:		Calibration: 3/	es, Me	enning				
	-leastingth. Ton	nnoratura)			pH 4.0: Øor	N	pH 7.0: (1) or	N pH 10.0	:Dor N	S.C.://Dor N	
SI 63 (pH, Specific Cor		ilperature)			A or N						
SI 55 (Dissolved Oxyge	en)				0.0 NTU: Ø 0	r N	1 1.	0 NTU: Øor N	10.0 N	TU:// or N	
aMotte (Turbidity)								,,			
					II Information		0" well = 0.16	Method	of Purging/Sam	ple Collection:	
Vell ID:	Well Diar	meter (ft.):	• (	Conversion	Factor (C): 1" we 4" w	eII = 0.047, $eII = 0.652$	2 Well - 0, 10,	Ba	ailerPump		
NW-17	RW _	Other		Screened I	nterval (ft.):			Total Well Depth	(TWD) (ft.): 3	2	
MWIW Private WSW	Public WSW	Otrici	Depth to Groundwater (DGW) (ft.): 20.47					Free Product Thickness (ft.):			
Depth to Free Product (	DFP) (ft.):	NIA	iroundwater (DGW	) (ft.): 20.9	7		Free Froduct III	ickricos (it.).	VIA		
ength of water column	- 1	/ • / • /						3 casing volume	s (3 x CV) (gals	.):	
(LWC = TWD - DGW) (	ft.):		1 casing vo	olume (CV = LWC	rurging Data						
							4 th Vol.	5 th Vol.	Post	Sampling	
		Initial	1 st Vol.	. 2 nd Vol.	3 00		7 701.				
Volume Purged (gallons	3)	0									
Time (military)		935									
PH (s.u.)		5.62									
Specific Conductivity (µ	ıS/cm)	394.5									
Water Temperature (°C	)	24.0									
Turbidity (NTU)		29.5									
Dissolved Oxygen (mg.	/L)	2.69			amenling Data						
			T		ampling Data	Dunlicata:	Y or 🔊	If yes, Duplicate	e Time:		
Sampled By:			Sampling	Time: 935		Duplicate.	1010	, 55, 2 5, 100.			
Notes: No Pu	inse										
							Signs	iture: /-a			
							Oigne				

D	H	E	C
	8		
Ø			

			Site Info		LEGAL D	roonnol: 1 1 1 0	- ^			
Date: 11-3-15 Sit	e ID#: 17544	Site Nar	ne: Cloud's	Cheuron	1	rsonnel: WH B	E, MP			
County: O Pro	e ID #: 07584 oject Manager: 0	Pishac	General Weath	Arbient Air Temp (°F):						
Ben and	Vec	( )~(	Quality A							
Meter Name		Serial #:	Cali	bration:	Yes Mar	ent of				
YSI 63 (pH, Specific Conduct	ivity Temperature)		pH ·	4.0: Or N	Ves Nav pH 7.000 or	N pH 10.0:	Por N	S.C. or N		
	- Tomporator of		00	r N		E				
YSI 55 (Dissolved Oxygen)			-	NTU: Or N	1	.0 NTU: Por N	10.0 N	ΓU: Øor N		
LaMotte (Turbidity)				,						
				ormation or (C): 1" well = 0.04	17 2" well = 0.16	Method	of Purging/Samp	ole Collection:		
	Vell Diameter (ft.):	٠(	Conversion Facili	4" well = 0.6	52	- KD - :	1- Dumn			
MW IW _RW	Other		Screened Interva	al (ft.):	Total Well Depth (TWD) (ft.):					
	ic WSW		- 20	to 30	Free Product Thickness (ft.):					
Depth to Free Product (DFP)	(ft.):NIA	Depth to Ground	dwater (DGW) (ft.):	22,13		Troo Troduct Time	1/0	IA		
Length of water column	1411		(C)/ = 1)MC × C)	(gale ):		3 casing volumes	(3 x CV) (gals.)	):		
(LWC = TWD - DGW) (ft.):		1 casing volume	e (CV = LWC x C)	ng Data						
		40137-1	2 nd Vol.	3rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling		
	Initial	1 st Vol.	2 VOI.	0 101						
Volume Purged (gallons)										
Time (military)	1050									
PH (s.u.)	5.39									
Specific Conductivity (µS/cn										
Water Temperature (°C)	24.3									
Turbidity (NTU)		-								
Dissolved Oxygen (mg/L)	3.22		Samn	ling Data						
		Oling Time			ite: Y or N	If yes, Duplicate	Time:			
Sampled By: WH BK	011	Sampling Time	030	Барпос						
Notes: No Putyl,	No Bolts, 1	NK 5. mg Cup								
	,				Sign	ature: The				
						7,				

			Ĺ	Field Dat	Storage Tank ta Information S	Sheet – Sa	mpling			
				Site Inf	ormation					
Doto:	Site ID #: 6759	u	Site Na	me: Cloud's	Cheuran	Field F	Personnel:	Ambient Air	WH	
Date: 11-3-15	Project Manager	Til		General Weat	ther Conditions:	ocast		Ambient Air	Temp (°F):	650
County: RTuland	Project Manager:	Cur FISI	NO	Quality	Assurance	0-5131				
		I Con	ial #:		libration: a 1					
Meter Name			lai #.		14.0: Y or N	pH 7.0: Y	or N	pH 10.0: Y	or N	S.C.: Y or N
YSI 63 (pH, Specific Cor	nductivity, Temperature	)				pi17.0. 1				
YSI 55 (Dissolved Oxyg	en)				or N	10 NTH	Y or N	1001	ITU: Y or N	
LaMotte (Turbidity)				0.	NTU: Y or N		1.0 NTO:	Y OI IN	10.01	10. 10. 11
Lamotto (Tarany)				Well In	formation					
Well ID: NW-19	Well Diameter (ft.)	2"		Method of Purging/Sample Collection:						
	RW Other			Screened Inter	val (ft.):		Total V	Vell Depth (TV	/D) (ft.): <b>2</b>	0
MWIW Private WSW	_RWOther_ Public WSW			70	to 30		Eroo F	Product Thickn		4
Depth to Free Product	DFP) (ft.): \\ \	De	pth to Groun	ndwater (DGW) (ft	TOGGET THIORIT	000 (111)1	1/1			
Length of water column	1417			e (CV = LWC x C	ing volumes (3 x CV) (gals.):					
(LWC = TWD - DGW)	11.).				ging Data					
	Initia		1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5	h Vol.	Post	Samplin
A Durred (gallon										
Volume Purged (gallon	82	5								
Time (military)	6.1									
PH (s.u.)	(C/om) 75	8.7								
Specific Conductivity (		(.3								
Water Temperature (°C	4.									
Turbidity (NTU)	1	4								
Dissolved Oxygen (mg	1/L) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	D \		Sam	pling Data					
0.1			ampling Tim			ate: Y or N	If yes	s, Duplicate Tir	ne:	
Sampled By: 36	MP. WH	S	ampling IIm	e: 825	Zapilos					

D H E C				L	Indergrou Field	und Stor Data Info	age Tank ormation	Manag Sheet	gemen – Sam	t Divis	sion		
m / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /					Site	e Informat	ion				0=		
Date: 2 1	Site ID #	* 07584		Site Na	me: Cloud	ne: Cloud's Cheuran Field Pers					BE MP Ambient Air	WH	
Date: 11-3-15 County: Lichtand	Project	Manager: Day	Z3 /-		General	Weather Co	nditions:	escess	<del>}</del>		Ambient Air	Temp (°F)	65°
County Ficherd	110,000	1/an	FISH			lity Assura							
			Serial #	4.	Quu	Calibratio	-						
Meter Name			Serial	pH 4.0: Y			V or N	DH 7.	0: Y or	N	pH 10.0: Y	or N	S.C.: Y or N
YSI 63 (pH, Specific Cor	nductivity,	Temperature)					1 01 14	1					
YSI 55 (Dissolved Oxyg	en)			Y or N						O NITLL:	Y or N	10.0	NTU: Y or N
LaMotte (Turbidity)						0.0 NTU:	Y or N		1.	U INTO.	1 01 14	10.0	
						ell Informa							1.0.11.45
Well ID: 1111 2 >	Conversion	n Factor (C):	1" well = 0.0 4" well = 0.6	47, 2" we 552	7, 2" well = 0.16, Method of Purging/Sample Collection   Bailer Pump								
NAVA/ 1/A/	Well ID: NW-20 Well Diameter (ft.): 2					Interval (ft.)				Total V	Vell Depth (TV	VD) (ft.):	30
Private WSW	Public WS		15 4	to Oronio	2 durator (DGV	VV (ft ).				Free P	roduct Thickn	ess (ft.):	N/A
Depth to Free Product	DFP) (ft.):	NIA	Depth	to Groun	dwater (DGV	7	0.18						VII-
Length of water column (LWC = TWD - DGW)	'ff \.		1 casi	1 casing volume (CV = LWC x C) (gals.): 3 casi							ng volumes (3	x CV) (gal	s.):
(LVVC = TVVD = DOVV)	(16.).					Purging D							Oling
		Initial	1s	t Vol.	2 nd Vol	l.	3 rd Vol.	4 th	4 th Vol.		5 th Vol. Post		Sampling
Volume Purged (gallon	s)									_			
Time (military)		905											
PH (s.u.)		6.57											
Specific Conductivity (	µS/cm)	299.9											
Water Temperature (°C		24.2											
Turbidity (NTU)		2.64						-					
Dissolved Oxygen (mg	g/L)	5.10					<b>D</b> (						
						Sampling		- V -	. 10	If you	, Duplicate Ti	me.	
Sampled By:			Sam	pling Tim	(0)		Duplic	ate: Y o	(1)	ii yes	, Duplicate III		
	me, N	10 Bolts,	Cracke	d Pad	Water i	in voult							

			U	Field D	nd Storage Ta Data Informati	on She	eet – San	npling			
W 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7				Site	Information						
D. dai	Site ID #: .		Site Nar	me: Claude	s Cheuron	Field Pe	ersonnel:	BE_MP_E Ambient Air	NH		
Date: 11-3-15	Site ID #: 0	7584		General W	leather Conditions:	MIGH	195+		Ambient Air	Temp (°F)	65°
County: Richland	Project iviai	nager: Dan Fi	sre			0000					
					Calibration:						
Meter Name			Serial #:		100	N	pH 10.0: Y	or N	S.C.: Y or N		
YSI 63 (pH, Specific Co	nductivity, Tem	perature)			pH 4.0: Y or N	14	pr 10.0. 1				
YSI 55 (Dissolved Oxyg					Y or N						Maria Wasan Maria
					0.0 NTU: Y or I	1	1	.0 NTU:	Y or N	10.0	NTU: Y or N
LaMotte (Turbidity)				Wol	Information						
Well ID:	Well Diam	eter (ft.): Z			Factor (C): 1" well = 4" well	0.047, 2	2" well = 0.16		> Bailer	Pump	mple Collection:
MW. 22	Screened Ir					Vell Depth (TV					
Private WSW  Depth to Free Product	Public WSW (DFP) (ft.):///	'A	Depth to Groun						roduct Thickn		-, ,
Length of water column (LWC = TWD - DGW)	1		1 casing volume	e (CV = LWC )	(C) (gals.): 1.7	3 casii	3 casing volumes (3 x CV) (gals.): 5. 28				
(LVVC = TVVD - DGVV)	(11.). 8			P	urging Data						0 lin
		Initial	1st Vol.	2 nd Vol.	3 rd Vol.		4 th Vol.	5"	h Vol.	Post	Samplin
N. I. Durand (gollor	201		1.76	3.5	2 5.2	1					
Volume Purged (gallor	15)	910	915	917	920						
Time (military)		6.03	6.11	(16							
PH (s.u.)	··C/om)	313.9	396.6	37-							
Specific Conductivity		23.9	23.5	23.							
Water Temperature (°	J)		343	30							
Turbidity (NTU)		3.28	7.33			-					
Dissolved Oxygen (m	g/L)	3.08	2.33		ampling Data						
				e: 0972		uplicate:	_	10	s, Duplicate Tir	20.	

Signature: Thell

			Site Info	rmation					
		l Oite Nie			Field	Personnel	RE MP	WH	
Date: 11.2-15 Site	ID#:07584	Site iva	me: CLOUP'S C	HEVICON  or Conditions: O			BE MP Ambient A	if Temp (°F):	C5-6
County: Proje	ect Manager:	Fisher		er Conditions: O	UCUST				
Kichlan			Quality A	ssurance					
Meter Name		Serial #:	Cali	bration: No	1 W	NI	pH 10.0: Y	or N	S.C.: Y or N
YSI 63 (pH, Specific Conductivi	tv Temperature)		pH ·	4.0: Y or N	pH 7.0: Y	or IN	pri 10.0. 1	OI IV	
			Yo	r N				1001	NTU: Y or N
YSI 55 (Dissolved Oxygen)			0.0	NTU: Y or N		1.0 NTU:	Y or N	10.0 F	NTU: Y OF IN
LaMotte (Turbidity)			Well-Inf	ormation					
			Conversion Fact	or (C): 1" well = 0.0 4" well = 0.6	47, 2" well = 0	.16,	Method of	Purging/San erPump	nple Collection:
Well ID: MW-23	ell Diameter (ft.):	-	Total	Well Depth (T	MD) (ft ):				
	Other		Screened Interv	al (ft.): to 30		IOLAI	Well Depth (1	30	5
Private WSWPublic		I D th. to Crou	ndwater (DGW) (ft.)			Free	Product Thick	ness (ft.):	ALC
Depth to Free Product (DFP) (	ft.): NA	Deptil to Groun	Tawater (BOTT) (117)	21.93				,	97.1
Length of water column		1 casing volun	ne (CV = LWC x C)	sing volumes (	(3 x CV) (gal:	S.):			
(LWC = TWD - DGW) (ft.):		1 Casing voice.		ing Data					O Iii
	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.		5 th Vol.	Post	Samplir
	Illitiai								
Volume Purged (gallons)	11/								
Time (military)	815								
PH (s.u.)	6.46								
Specific Conductivity (µS/cm)	192.0								
Water Temperature (°C)	23.6								
Turbidity (NTU)	8.09								
Dissolved Oxygen (mg/L)	UTIL		Sami	oling Data					

D H E			U	Indergrou Field D	nd Storage Tank ata Information	Manageme Sheet – Sa	nt Division mpling			
				Site	Information					
Date:	Site ID #: 07584		Site Nar	me: ( LOUP	's CHEURON	Field P	ersonnel: BE	MP WH pient Air Temp (°		
Date: 11-3-15	Project Manager: Da	Fisher		General W		ercast	Aml	oient Air Temp (°	F): 65°	
County: Richland	Va	FISHE		Qualit	ty Assurance	0401				
		Seria	1 #:			AM TOST				
Meter Name		Selia	ι π.		pH 4.0: (2) or N	AM Test pH 7.0: Oo	r N DH 1	0.0: Øor N	S.C.: Oor N	
YSI 63 (pH, Specific Co	nductivity, Temperature)					pri 1.0.		V		
YSI 55 (Dissolved Oxyg	en) DRP		,	(	Dor N 210		LOVELL O	N 10	O NTU: YOr N	
LaMotte (Turbidity)	aMotte (Turbidity)				0.0 NTU: Or N		1.0 NTU: Ør	N 10.	ONTO. CONTO	
•				Well	Information					
Well ID: MW-25	Well Diameter (ft.):	2"		Conversion F	actor (C): 1" well = 0.0 4" well = 0.6	47, 2" well = 0.1 352	×	Bailer Pui	Sample Collection: mp	
XMW _IW _	RWOther			Screened In			Total Well De	pth (TWD) (ft.):	25.6	
Private WSW	Public WSW			dwater (DGW)	to 1912		Free Product	Thickness (ft.):	N1//	
Depth to Free Product	(DFP) (ft.): N/A	Dept	n to Ground	dwater (DGVV)	17.76				NIA	
Length of water column (LWC = TWD - DGW)		1 cas	1 casing volume (CV = LWC x C) (gals.): 3 casing volumes (3 x CV) (gals.):							
(LVVO - TVVD - DOTT)				Pi	urging Data					
	Initial		1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Samplin	
Volume Purged (gallor	s)									
Time (military)	800									
PH (s.u.)	6.66									
Specific Conductivity (					8					
Water Temperature (°C										
Turbidity (NTU)	5.65	5								
Dissolved Oxygen (mg										
				Sa	ampling Data					
Sampled By: WH	BF	San	npling Time	800	Duplica	ate: Y or N	If yes, Dupli	cate Time:		
Notes: No Pur	1/20/1/	Pad D	mosco							

D H E C		ι	Indergro Field	und Storage Data Inform	Tank Mation S	/lanagemen heet – Sam	t Division pling					
			Site	e Information								
Date: 1/ 1/ /5	Site ID#: 07584	Site Na		ds Cheur		Field Per	sonnel: BE, A	IP, WH				
Date: 11-4-15	Project Manager:	1	General	Weather Condition	ons: /)	cast	Personnel: BE, MP, WH Ambient Air Temp (°F): 65					
County: Richland	1 Tojoot Wariagon Van	Fishe				/ Cus.						
		0	Qua	Calibration: 1	,	11:11						
Meter Name		Serial #:		/	es,/	pH 7.0: (1) or	N   pH 10.0;	Por N	S.C. Por N			
YSI 63 (pH, Specific Cond	uctivity, Temperature)			pH 4.0: (Y) or	N	pri 7.0. (1) 01	pri 10.08	01 11	0.06. 7			
YSI 55 (Dissolved Oxygen	)			Mor N				1 10 5 5	TIL 0 N			
LaMotte (Turbidity)			and the second	0.0 NTU: (Y)	or N	1.0	NTU: 🕢 or N	10.0 N	ITU: 💜 or N			
			We	ell Information								
Well ID: MW-26	Well Diameter (ft.): 7		Conversion	n Factor (C): 1" w 4" \	rell = 0.047 vell = 0.652	7, 2" well = 0.16, 2	Ba	of Purging/Sam ilerPump	ple Collection:			
MW IW R	RW Other		Screened	Interval (ft.):	l	. 1	Total Well Depth	(TWD) (ft.):	?o			
	ublic WSW	Donth to Groun	dwater (DGV	N) (ft.): 2 1 - 0	IKNOW	V	Free Product Thi	ckness (ft.):	\\A			
Depth to Free Product (D	FP) (III.): N/A	Deptil to Groun	awator (DO:	1.00	9				0/10			
Length of water column (LWC = TWD – DGW) (ft.	).	1 casing volum	1 casing volume (CV = LWC x C) (gals.): 3 casing volumes (3 x CV) (gals.)									
(EVVO = 1VVD = BOVV) (1	7.			Purging Data								
	Initial	1st Vol.	2 nd Vo	I. 3rd V	ol.	4 th Vol.	5 th Vol.	Post	Sampling			
Volume Purged (gallons)	0						,					
Time (military)	1345											
PH (s.u.)	5.37											
Specific Conductivity (µS												
Water Temperature (°C)	24.2											
Turbidity (NTU)	27.0											
Dissolved Oxygen (mg/L	1 2 2 7											
				Sampling Data		· (C)	If you Dunlingto	Timo:				
Sampled By:		Sampling Time	e: 1345		Duplicate	e: Y or (N)	If yes, Duplicate	s mille.				
Notes: No Pur	56					·						

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

_Signature: _

Date: 1 2 . Site II	)#:	l Cita h		ite Information	I =:				
Date: 11-3-15 Site II	0#: 67584	Site	Name: Cloc	d's Cheuron	Field	BE MP	WH		
County: Richland Project	et Manager: Don	Fisher	Genera	Weather Conditions:		BE MP Ambient Air	Temp (°F):	703	
Meter Name			Qu	ality Assurance					
		Serial #:		Calibration:			***************************************	***************************************	
YSI 63 (pH, Specific Conductivity	Temperature)			pH 4.0: Y or N	pH 7.0: Y d	or N	pH 10.0: Y	or N	S.C.: Y or
YSI 55 (Dissolved Oxygen)				Y or N					
LaMotte (Turbidity)				0.0 NTU: Y or N		1.0 NTU:	Y or N	10.0 N	TU: Y or N
			W	ell Information					
Well ID: Well I	Diameter (ft.): Z			n Factor (C): 1" well = 0.0 4" well = 0.6		6,	Method of P		ole Collection:
MWIWRWPrivate WSW Public WS	Other		)	Interval (ft.): 5 to 30		Total W	/ell Depth (TW		)
Depth to Free Product (DFP) (ft.):	MA	Depth to Groun	ndwater (DGV	V) (ft.): 11, 21		Free Pr	roduct Thickne	ess (ft.):	1/4
LWC = TWD – DGW) (ft.):	5.79	1 casing volume				3 casin	g volumes (3 >	CV) (gals.)	9.00
	1.00			Purging Data					
olume Purged (gallons)	Initial	1 st Vol.	2 nd Vol.		4 th Vol.	5 th	Vol.	Post	Samplir
ime (military)		3	6	9					
H (s.u.)	1000	1005	1010						
pecific Conductivity (µS/cm)	6.03	6.03	5.98						
/ater Temperature (°C)	640	765	695						
urbidity (NTU)	24.4	24.2	23.	1					
issolved Oxygen (mg/L)	237 4.34	634	5.30	000					
7 3 (mg/s-/	1,2-(	5.50							
ampled By: BK, WU			1015	ampling Data	e: Y or N				