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Ms. Addie Walker  
South Carolina Department of Health and Environmental Control  
2600 Bull Street  
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September 04, 2014

Dear Ms. Walker,

**Subject: VCC Progress Report #4  
Auriga, Spartanburg Facility  
BoW Site ID# 00225, VCC 13-5841-RP  
AECOM Project No. 60280417**

**RECEIVED**

SEP 05 2014

**SITE ASSESSMENT,  
REMEDICATION &  
REVITALIZATION**

Please find enclosed the above referenced report. As indicated in the Voluntary Cleanup Contract and your request, two hard copies and one electronic copy on CD are included.

If you have questions, please contact me at 404.965.9657.

Sincerely,

Bryon Dahlgren, PE  
Project Manager

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Environment

Prepared for:  
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September 2014

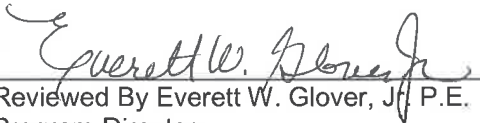
# Auriga Spartanburg Voluntary Cleanup Contract 13-5841-RP Progress Report #4 September 2014



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## 1.0 Introduction

The purpose of this document is to provide to the South Carolina Department of Health and Environmental Control (SCDHEC) an update of activities at the Auriga facility in Spartanburg, South Carolina (SC) (site) under Voluntary Cleanup Contract 13-5841-RP (VCC) signed March 12, 2013. Activity to be completed at the site was defined in the VCC work plan submitted April 26, 2013, and approved January 21, 2014. This progress report covers the period of March 1, 2014 through August 31, 2014.

A schedule of activities was presented in the VCC work plan. An updated version of the schedule is presented as Figure 1.

Two annual monitoring events are defined in the VCC work plan. The site-wide event is scheduled for completion in June of each year. The scope of the June event is presented in Table 1. Table 1 of this report has been expanded from the VCC annual monitoring plan to include the additional performance monitoring wells. A smaller event focused on the chloroform plume area, scheduled for completion in December of each year, is presented in Table 2. Table 2 also includes the performance monitoring well added subsequent to the VCC work plan.

The annual groundwater monitoring event was completed in June. Samples were collected between June 9 and June 18, 2014. Surface water locations were also sampled along Cherokee Creek, the Pacolet River, and Bruckner Creek. The monitoring locations are presented on Figure 2. The complete laboratory analytical results are provided as Appendix A. A summary of groundwater results is presented in Table 3. A summary of surface water results is presented in Table 4. Potentiometric maps based on the groundwater elevations measured during the June sampling event are presented on Figures 3 and 4. These summary tables and figures are referenced in the following discussions of operable units (OU) as defined in the VCC work plan.

## 2.0 Chloroform in Groundwater

Chloroform at the site is identified as an aqueous plume extending south-southeast from the DMT area. No remaining or ongoing source was identified. Continued delineation and remediation activities were established in the VCC work plan and separate documents.

### 2.1 Actions Completed during Reporting Period

Installation of performance monitoring wells was completed on March 31, 2014. Baseline samples were collected from the new performance monitoring wells between March 31 and April 3, 2014. The results of the baseline sampling were submitted to SCDHEC on May 15, 2014. The baseline data was consistent with the previously established chloroform concentrations identified in recent direct push technology (DPT) sampling events. The data summary table presented in the May 15 report is reprinted as Table 5 of this progress report.

Injection activities were completed between April 21 and May 30, 2014. The injection completion report was submitted to SCDHEC on June 26, 2014.

The June monitoring event was completed shortly after injection activities were finished. Chloroform results were consistent with recent historic data. The chloroform data are included in summary Tables 3 and 4. The chloroform results are presented on Figures 5 and 6 for saprolite and bedrock, respectively.

No significant changes were noted in the chloroform results for wells or areas. The injection activities are expected to result in declines, but the samples were collected just after the completion of injection. Based on historic remediation in nearby areas, the results of the recent injection are not expected to be observed yet and several quarters may be required before significant changes are noted.

The results of dissolved oxygen and ORP analyses are presented in Table 3 and on Figures 7 through 10. The lactate injection activities are expected to demonstrate changes to these parameters over the next several quarters, creating conditions that will facilitate *in situ* destruction of chloroform.

### 2.2 Actions Scheduled for Next Reporting Period

Performance monitoring is scheduled to continue in the next quarter. The first quarterly event will be completed during the month of September. All performance monitoring wells will be sampled for volatile organics (VOCs), included chloroform, as well as other indicator parameters.

Activity is also anticipated west of Bruckner Road. The schedule of activities in this area is dependent on final approval from SCDHEC.

The semiannual chloroform groundwater monitoring event will be completed in December 2014. This event will include monitoring of the wells in the December sampling plan, as well as the performance monitoring wells. The complete chloroform monitoring plan is presented in Table 2, which has been revised from the VCC annual monitoring plan to include the performance monitoring wells.

## 3.0 1,4-Dioxane in Groundwater

1,4-Dioxane has been identified in site groundwater. Several known sources of 1,4-dioxane impact to groundwater were removed in the mid to late 1990's, including the in-ground basins associated with the wastewater treatment system and the sludge holding and sludge drying lagoons. Continued monitoring and evaluation was established as the course of action in the VCC work plan.

### 3.1 Actions Completed during Reporting Period

Analysis for 1,4-dioxane was included in the June annual sampling event, as indicated in Table 1. The 1,4-dioxane groundwater results are presented in Table 3. In addition, the 1,4-dioxane results for the saprolite and bedrock wells are presented on Figures 11 and 12, respectively.

Minor changes in concentration were noted for several wells in the area between Outfall 001 and Cherokee Creek. Historically, the highest concentration in the area has been in samples collected from well EW-14. The samples from this well have consistently reported concentrations at approximately 0.160 milligrams per liter (mg/L). In the June 2014 sample, this result was 0.0357 mg/L. Another decrease in 1,4-dioxane concentrations was reported in the sample from well EW-28 located near Cherokee Creek. The June 2014 result at EW-28 was 0.0858 mg/L, compared to historic results at approximately 0.15 mg/L.

The largest increase in the Outfall 001 and Cherokee Creek area was at well EW-02. The June 2014 sample result for EW-02 was 0.190 mg/L, compared to historic concentrations of approximately 0.1 mg/L. Samples from a few other wells in this area also showed slight increases in concentration compared to historic results. These wells include MW-97, EW-17, and EW-27. The concentration at each of these locations is below 0.050 mg/L and within historic values for the area. The overall extent and magnitude of concentrations within the area remains unchanged, though some fluctuation has been observed in this event.

Increased concentrations of 1,4-dioxane were noted at a few wells in the central plant vicinity. Concentrations of 1,4-dioxane were first noted in this area centered around well MW-53. The concentrations at well MW-53 remain below the high of 9.54 mg/L noted in 2011, but this well remains the center of the plume. Increases were noted at nearby wells RW-80, RW-86, and RW-91 (6.76, 7.28, and 3.23 mg/L, respectively). A smaller increase was also noted at downgradient well MW-05, which reported a result of 1.35 mg/L. These results suggest that the plume has moved slightly in the past 4 years, but the plume remains closest to MW-53.

Decreasing concentrations were noted at three wells on the west side of the former DMT area. The 1,4-dioxane concentration reported for samples from wells MW-99 and EW-52 declined to 0.0022 mg/L. The result for nearby well MW-98 also declined slightly to 0.0423 mg/L. The results over several years suggest that the plume may be declining in this small area.

South of Bruckner Creek, there was a detection of 1,4-dioxane in the sample from well RW-110. The result of 0.0049 mg/L is similar to the prior reported detection of 0.0036 mg/L in early 2013. Three other samples collected in 2013 and 2014 were non-detected (<0.002 mg/L). Well RW-110 is located directly adjacent to Bruckner Creek. Samples collected from nearby downgradient well RW-111 have consistently remained below the Method 8260 SIM reporting limit of 0.002 mg/L. The sample collected in June was again non-detect (<0.002 mg/L). A second sample was collected from RW-111



on July 11, 2014, tested by Method M522, and reported a result of 0.0000998 mg/L. This result is similar to the M522 result measured from this well in December 2013 of 0.000123 mg/L. These results demonstrate that the groundwater directly adjacent to the creek may report measurable quantities; however, the flow of water from the south into the creek limits the migration of compounds, and the concentrations and range are limited beyond the creek.

In addition to the routine annual sampling (Table 1), one sample was collected from well MW-95 located across the Pacolet River and north of I-85. This sample was analyzed for 1,4-dioxane by Method M522 and reported a detection of 0.0000404 mg/L (40.4 parts per trillion). The reporting limit for this method is 40 parts per trillion. The result is more than an order of magnitude below the groundwater quality standard.

Detections of 1,4-dioxane were reported in a few surface water samples, as presented on Table 4. A detection of 0.0119 mg/L was reported at location SW-05, located near the conflux of Cherokee Creek and the Pacolet River. Lower concentrations were reported at nearby locations SW-04 and SW-06 (0.0021 and 0.0022 mg/L, respectively). This is the first reported detection of 1,4-dioxane at location SW-05. 1,4-Dioxane was also detected in the sample from location SW-10 at a concentration of 0.017 mg/L and at nearby location SW-09 at 0.0024 mg/L. The detection at SW-10 is consistent with periodic fluctuations seen at this location.

1,4-Dioxane was not detected (<0.002 mg/L) at all surface water locations south of I-85.

### **3.2 Actions Scheduled for Next Reporting Period**

Well MW-95 will be resampled for additional analysis by Method M522. In addition, wells located south of I-85 will be analyzed for 1,4-dioxane as part of the December monitoring event.

## 4.0 DOWTHERM™ A in Groundwater

DOWTHERM™ A (DOWTHERM) is comprised of approximately 27% 1,1-biphenyl and 73% diphenyl ether. The presence of DOWTHERM™ A in groundwater is interpreted to be residual impact from events prior to enhancements in plant operations and housekeeping. Continued monitoring and evaluation was established as the course of action in the VCC work plan.

### 4.1 Actions Completed during Reporting Period

Monitoring of DOWTHERM™ A, as described in the VCC work plan, is included in the June annual sampling event. The results for 1,1-biphenyl and diphenyl ether are included in Table 3. Diphenyl ether is the primary component of DOWTHERM™ A. In addition, 1,1-biphenyl is more readily degraded than diphenyl ether. Therefore, diphenyl ether is more frequently detected as presented on Figures 13 and 14, which show the extent of DOWTHERM™ A for the saprolite and bedrock wells, respectively.

In general, the concentrations of diphenyl ether are stable with declines noted at a few locations. Three wells along Cherokee Creek reported declining concentrations, including EW-14, EW-16, and EW-28. A declining concentration was also noted at well MW-07. Well MW-07 is in the area of extraction discussed in the following section.

No increasing concentration trends were noted.

As noted in Table 3, the diphenyl ether results for a few wells were rejected during the validation process. The diphenyl ether result for one surface water sample was also rejected. The locations with rejected results are EW-22, EW-27, EW-43, EW-52, MW-97, and SW-04. The validation was the result of poor laboratory control sample recovery. Only results that reported non-detect (<0.010 mg/L) on the preliminary data were rejected by this validation. For the listed locations, except for well EW-22, a result of non-detect (<0.010 mg/L) would be consistent with recent data. At EW-22, the diphenyl ether results for the past three years have ranged from 0.0119 to 0.0163 mg/L. Slightly higher results have been noted in older samples from EW-22. The rejected data are considered to provide no information for the 2014 assessment, but these data gaps do not impact the assessment for this compound.

### 4.2 Actions Scheduled for Next Reporting Period

No monitoring actions are scheduled for DOWTHERM™ A in groundwater for the next reporting period. The phase DOWTHERM™ investigation is described in the next section.

## **5.0 DOWTHERM™ A Phase Material**

Separate phase DOWTHERM™ A has been removed in the area of wells MW-07 and MW-39 downgradient of the former Fiber 1 EQ basin since startup of an extraction and decanting system in August 2001.

### **5.1 Actions Completed during Reporting Period**

Extraction activities continued during the reporting period. The system was decanted on May 23, 2014. Approximately 1 gallon of phase DOWTHERM™ material was removed from the system, in addition to approximately 1,000 gallons of water. The total volume of product extracted since the system was started is estimated to be 86 gallons.

The investigation of phase DOWTHERM™ A in the vicinity of well MW-7 started in August 2014. AECOM began installation of the temporary wells during the week of August 25, 2014. All wells will be completed early in the next reporting period. The study will be completed over a period of two months once the wells are complete. The temporary wells will be abandoned in accordance with SCDHEC guidance once the study is complete.

### **5.2 Actions Scheduled For Next Reporting Period**

The phase DOWTHERM™ investigation will continue into the next reporting period.

## 6.0 Other Chlorinated Solvents in Groundwater

Detection of other chlorinated compounds in groundwater have been identified in isolated areas. Detections consist primarily of tetrachloroethene (PCE) and trichloroethene (TCE), and their degradation product cis-1,2-dichloroethene (cDCE). These compounds are primarily noted near well MW-99 west of the DMT area and north of the plant between well MW-40 and Lake Patrick. 1,1-Dichloroethene (1,1-DCE) has also been noted at isolated locations. Continued monitoring and evaluation was established as the course of action in the VCC work plan.

### 6.1 Actions Completed during Reporting Period

Monitoring of VOCs, as described in the VCC work plan, is included in the June annual sampling event. The results for detected VOCs are included in Table 3. Detections of VOCs other than chloroform and 1,4-dioxane are presented on Figures 15 and 16.

No significant changes were noted for any other VOCs. All detections are consistent with historic values for the locations. A few new detections are noted in new performance monitoring wells, but these results are consistent with the known results for other wells in the area. The concentrations of VOCs at well MW-99 were all lower than recent results. This is consistent with the decline observed in 1,4-dioxane concentrations in the same area. Further data will be needed to determine if this is a trend or a fluctuation.

### 6.2 Actions Scheduled for Next Reporting Period

The September performance monitoring and December semiannual monitoring will include VOCs analysis for all wells in the sampling plans.

## **7.0 Cherokee Creek and Sediments and Ecological Habitat**

In 2011, SCDHEC completed a macroinvertebrate study of the Pacolet River, including work along Cherokee Creek near the site. In response to the findings of that study, SCDHEC requested additional actions, including an ecological assessment and potential source evaluation. These activities were previously completed and the results submitted to and accepted by SCDHEC. Continued surface water monitoring and evaluation was established as the course of action in the VCC work plan.

### **7.1 Actions Completed during Reporting Period**

The annual monitoring program as approved in the VCC work plan was completed in June. The results for site parameters are summarized in the previous sections of this progress report.

### **7.2 Actions Scheduled for Next Reporting Period**

The next annual sampling event will not occur until after the next reporting period.

## **8.0 Other Site-Wide Activities**

Because the June and December monitoring events encompass multiple operable units, they were defined in the VCC work plan as distinct operable units. Details of these events, specific to each operable unit, are provided in the previous sections.

### **8.1 Actions Completed during Reporting Period**

The VCC work plan includes the June and December monitoring events as shown in Tables 1 and 2. The June 2014 results are summarized in Tables 3 and 4. Complete laboratory results are provided as Appendix A. The results are discussed further in previous sections of this report.

### **8.2 Actions Scheduled for Next Reporting Period**

The December 2014 sampling event will be completed during the next reporting period.

## **9.0 Problems Encountered and Responses**

No problems were encountered.

## Tables



**Table 1  
Annual Monitoring Plan**

<b>Sample Location</b>	<b>VOCs (8260)</b>	<b>1,4-Dioxane</b>	<b>DowTherm A <sup>TM</sup> (1)</b>	<b>Natural Attenuation Parameters</b>
<b>Groundwater</b>				
EW-01		X	X	
EW-02		X	X	
EW-07		X		
EW-14	X	X	X	
EW-15		X		
EW-16		X	X	
EW-17		X	X	
EW-20	X	X		
EW-22		X	X	
EW-26		X	X	
EW-27		X	X	
EW-28		X	X	
EW-30	X			X
EW-31		X		X
EW-32		X	X	
EW-36	X			X
EW-37	X	X		X
EW-38	X	X		
EW-39	X			X
EW-40	X			X
EW-41	X	X		X
EW-43		X	X	
EW-47	X	X		
EW-49	X	X	X	X
EW-50	X			X
EW-52	X	X	X	X
EW-53	X	X	X	X
MW-03	X	X		
MW-05		X	X	
MW-07		X	X	
MW-09A		X		
MW-26		X		
MW-39		X	X	
MW-40R		X	X	
MW-41		X		
MW-42		X	X	
MW-45	X			X
MW-46	X			X
MW-53		X	X	
MW-57		X		
MW-81		X	X	
MW-96		X	X	
MW-97		X	X	

**Table 1  
Annual Monitoring Plan**

<b>Sample Location</b>	<b>VOCs (8260)</b>	<b>1,4-Dioxane</b>	<b>DowTherm A <sup>TM</sup> (1)</b>	<b>Natural Attenuation Parameters</b>
MW-98	X	X		
MW-99	X	X	X	X
MW-102		X	X	
MW-103	X	X	X	X
MW-105	X	X	X	X
MW-106	X	X	X	X
MW-107	X	X	X	X
MW-109	X	X	X	X
RW-08		X	X	
RW-24		X	X	
RW-29	X	X	X	X
RW-43		X	X	
RW-47	X			X
RW-48	X	X	X	X
RW-56		X		
RW-65	X	X	X	X
RW-79		X	X	
RW-80		X	X	
RW-82		X	X	
RW-83A		X	X	
RW-84		X	X	
RW-85		X	X	
RW-86		X	X	
RW-87		X	X	
RW-91		X	X	
RW-92		X	X	
RW-108	X	X	X	X
RW-110	X	X		X
RW-111	X	X		X
MW-112	X	X		X
RW-113	X	X		X
MW-114	X	X		X
RW-115	X	X		X
MW-116	X	X		X
MW-118	X	X		X
RW-119	X	X		X
MW-120	X	X		X
RW-121	X	X		X
MW-122	X			X
RW-123	X			X
MW-124	X			X
MW-126	X			X
RW-127	X			X
MW-128	X			X
RW-129	X			X
MW-130	X			X
MW-132	X			X
RW-133	X			X
MW-134	X			X

**Table 1  
Annual Monitoring Plan**

<b>Sample Location</b>	<b>VOCs (8260)</b>	<b>1,4-Dioxane</b>	<b>DowTherm A™ (1)</b>	<b>Natural Attenuation Parameters</b>
MW-136	X			X
RW-137	X			X
MW-138	X			X
RW-139	X			X
<b>Surface Water</b>				
SW-01	X	X	X	
SW-02	X	X	X	
SW-03	X	X	X	
SW-04	X	X	X	
SW-05	X	X	X	
SW-06	X	X	X	
SW-07	X	X	X	
SW-08	X	X	X	
SW-09	X	X	X	
SW-10	X	X	X	
SW-11	X	X	X	
SW-12	X	X	X	
SW-13	X	X		
SW-14	X	X		

NA Parameters - Temperature, pH, dissolved oxygen (DO), oxidation-reduction potential (ORP), ortho phosphate, sulfate, sulfide, alkalinity, chloride, nitrate, nitrite, dissolved ferrous iron, dissolved manganese, and total organic carbon (TOC).

(1) - DowTherm A™ components are 1,1-biphenyl and Diphenyl Ether

**Table 2**  
**December Chloroform Monitoring Plan**

<b>Sample Location</b>	<b>VOCs</b>	<b>NA Params</b>
<b>Groundwater</b>		
EW-31	X	X
EW-37	X	X
EW-41	X	X
EW-49	X	X
EW-52	X	X
EW-53	X	X
MW-99	X	X
MW-103	X	X
MW-105	X	X
MW-106	X	X
MW-107	X	X
MW-109	X	X
RW-29	X	X
RW-48	X	X
RW-65	X	X
RW-108	X	X
RW-110	X	X
RW-111	X	X
MW-112	X	X
RW-113	X	X
MW-114	X	X
RW-115	X	X
MW-116	X	X
MW-118	X	X
RW-119	X	X
MW-120	X	X
RW-121	X	X
MW-122	X	X
RW-123	X	X
MW-124	X	X
MW-126	X	X
RW-127	X	X
MW-128	X	X
RW-129	X	X
MW-130	X	X
MW-132	X	X
RW-133	X	X
MW-134	X	X
MW-136	X	X
RW-137	X	X
MW-138	X	X
RW-139	X	X
<b>Surface Water</b>		
SW-12	X	
SW-13	X	
SW-14	X	

NA Params - Natural Attenuation Parameters:

Temperature, pH, dissolved oxygen (DO), ORP, alkalinity, chloride, dissolved ferrous iron, manganese, and total organic carbon (TOC)

**Table 3**  
**Summary of Groundwater Analytical Results**  
**June 2014**  
**Auriga Spartanburg Facility**  
**AECOM Project No. 60280417**

Parameter	Unit	EW-01 6/17/2014	EW-02 6/12/2014	EW-07 6/13/2014	EW-14 6/17/2014	EW-15 6/17/2014	EW-16 6/17/2014	EW-17 6/13/2014	EW-20 6/17/2014	EW-22 6/17/2014	EW-26 6/18/2014	EW-27 6/17/2014	EW-28 6/12/2014	EW-30 6/12/2014
<b>Volatile Organics &amp; 1,4-Dioxane</b>														
acetone	mg/L	NA	NA	NA	0.0254	NA	NA	NA	<0.025	NA	NA	NA	NA	<0.025
2-butanone	mg/L	NA	NA	NA	<0.01	NA	NA	NA	<0.01	NA	NA	NA	NA	<0.01
chloroform	mg/L	NA	NA	NA	0.0076	NA	NA	NA	<0.005	NA	NA	NA	NA	0.0925
1,1-dichloroethane	mg/L	NA	NA	NA	0.0714	NA	NA	NA	<0.005	NA	NA	NA	NA	<0.005
1,1-dichloroethene	mg/L	NA	NA	NA	0.0135	NA	NA	NA	0.0162	NA	NA	NA	NA	<0.005
cis-1,2-dichloroethene	mg/L	NA	NA	NA	0.143	NA	NA	NA	<0.005	NA	NA	NA	NA	<0.005
trans-1,2-dichloroethene	mg/L	NA	NA	NA	0.022	NA	NA	NA	<0.005	NA	NA	NA	NA	<0.005
1,4-dioxane	mg/L	0.0324	0.19	0.114	0.0357	0.0365	1.63	0.031	0.016	0.604	0.0398	0.0466	0.0858	NA
methylene chloride	mg/L	NA	NA	NA	<0.005	NA	NA	NA	<0.005	NA	NA	NA	NA	<0.005
1,1,2,2-tetrachloroethane	mg/L	NA	NA	NA	0.334	NA	NA	NA	<0.005	NA	NA	NA	NA	<0.005
tetrachloroethene	mg/L	NA	NA	NA	0.0054	NA	NA	NA	<0.005	NA	NA	NA	NA	<0.005
trichloroethene	mg/L	NA	NA	NA	0.235	NA	NA	NA	<0.005	NA	NA	NA	NA	<0.005
vinyl chloride	mg/L	NA	NA	NA	0.0211	NA	NA	NA	<0.005	NA	NA	NA	NA	<0.005
<b>DOWTHERM™ A</b>														
1,1-biphenyl	mg/L	<0.01	0.141	NA	0.0491	NA	<0.01	<0.01	NA	<0.01	<0.01	<0.01	0.0264	NA
diphenyl ether	mg/L	0.0131	0.91	NA	0.653	NA	0.0446	<0.01	NA	R**	<0.01	R**	0.167	NA
<b>Field &amp; Natural Attenuation Parameters</b>														
alkalinity	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56.2
chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.6
dissolved oxygen	mg/L	0.73	0.76	0.51	1.2	0.58	0.39	0.34	0.45	0.44	0.44	2.82	0.54	0.43
ferrous Fe	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.4
groundwater elevation	feet MSL	676	666.52	641.29	680.55	652.62	646.55	679.51	685.25	648.73	644.97	665.07	666.43	678.18
manganese (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.74
nitrate nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1
ORP	mV	55	-13	-60.7	74.2	-80	-41.9	-129.7	16.8	-45.5	-79.6	79.4	-31.5	-49.2
orthophosphate phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05
pH	su	5.71	6.14	7.2	4.81	6.65	6.07	7.45	5.73	6.09	6.28	5.35	6.57	6.44
specific conductance	umhos/cm	176	0.132	0.12	161	244	811.9	143	156	781.7	274	0.083	162	0.18
sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
temperature	degrees C	17.42	18.82	16.47	19.15	16.5	18.04	21.4	17.31	17.82	16.96	19.47	20.42	21.57
total organic carbon	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
turbidity	NTU	21.8	3.08	8.39	5.24	121.8	35.4	8.6	35.8	40	5.08	60	9.98	8.31

**Notes:**

NA – Not Analyzed  
degrees C – degrees Celsius  
feet MSL – feet above mean sea level  
mg/L – milligrams per liter  
mV – millivolts  
NTU – nephelometric turbidity units  
su – standard units  
umhos/cm – micromhos/cm  
\* – 6/10/14 result for 1,4-dioxane = <0.002;  
resample on 7/11/14 tested by Method 522  
R\*\* – Results not reportable.

**Table 3**  
**Summary of Groundwater Analytical Results**  
**June 2014**  
**Auriga Spartanburg Facility**  
**AECOM Project No. 60280417**

Parameter	Unit	EW-31 6/12/2014	EW-32 6/18/2014	EW-36 6/12/2014	EW-37 6/12/2014	EW-38 6/13/2014	EW-39 6/12/2014	EW-40 6/17/2014	EW-41 6/12/2014	EW-43 6/12/2014	EW-47 6/13/2014	EW-49 6/11/2014	EW-50 6/11/2014	EW-52 6/12/2014
<b>Volatiles Organics &amp; 1,4-Dioxane</b>														
acetone	mg/L	NA	NA	<0.025	<0.025	<0.025	<0.025	5.6	<0.025	NA	<0.025	<0.025	<0.025	<0.025
2-butanone	mg/L	NA	NA	<0.01	<0.01	<0.01	<0.01	1.84	<0.01	NA	<0.01	<0.01	<0.01	<0.01
chloroform	mg/L	NA	NA	<0.005	<0.005	<0.005	<0.005	0.0185	0.021	NA	<0.005	<0.005	<0.005	<0.005
1,1-dichloroethane	mg/L	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005
1,1-dichloroethene	mg/L	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005
cis-1,2-dichloroethene	mg/L	NA	NA	0.0183	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	0.0096	<0.005	0.0569
trans-1,2-dichloroethene	mg/L	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005
1,4-dioxane	mg/L	0.0125	1.06	NA	<0.002	0.0397	NA	NA	<0.002	0.067	0.0242	0.0042	NA	0.0022
methylene chloride	mg/L	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005
1,1,2,2-tetrachloroethane	mg/L	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005
tetrachloroethene	mg/L	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005
trichloroethene	mg/L	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005
vinyl chloride	mg/L	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005
<b>DOWTHERM™ A</b>														
1,1-biphenyl	mg/L	NA	<0.01	NA	NA	NA	NA	NA	NA	<0.01	NA	<0.01	NA	R**
diphenyl ether	mg/L	NA	0.0504	NA	NA	NA	NA	NA	NA	R**	NA	<0.01	NA	R**
<b>Field &amp; Natural Attenuation Parameters</b>														
alkalinity	mg/L	114	NA	36.7	89.9	NA	705	11400	22.6	NA	NA	103	588	44.1
chloride	mg/L	7.7	NA	2.8	10.5	NA	12.9	8.6	2.9	NA	NA	1.8	3.1	2.9
dissolved oxygen	mg/L	0.24	0.7	0.34	0.53	0.44	0.68	0.67	0.34	0.65	5.78	0.43	0.44	0.39
ferrous Fe	mg/L	0.8	NA	4.4	1.2	NA	1	7	4.2	NA	NA	0.2	1	3.6
groundwater elevation	feet MSL	672.5	651.25	726.69	723.61	670.73	710.99	672.15	672.43	673.37	671.1	729	727.32	724.19
manganese (dissolved)	mg/L	1.54	NA	0.147	6.43	NA	1.25	0.28	0.445	NA	NA	0.0512	0.0098	0.21
nitrate nitrogen	mg/L	<0.1	NA	0.1	<0.1	NA	<0.1	3.2	0.14	NA	NA	<0.1	<0.1	<0.1
ORP	mV	-104	93.7	-41.8	136.4	-46	-58.8	-98.2	102.5	-94.1	193.1	-79.6	22.3	-62.9
orthophosphate phosphorus	mg/L	0.073	NA	0.05	NA	NA	0.2	0.17	0.054	NA	NA	<0.1	0.91	<0.1
pH	su	7.09	5.26	6.4	5.53	7.1	6.31	7.3	5.64	6.83	5.24	7.78	8.05	6.33
specific conductance	umhos/cm	0.254	239	0.129	0.123	0.125	1307	22611	0.072	0.22	0.065	0.23	1.082	0.176
sulfate	mg/L	<1	NA	<1	<1	NA	<1	5.3	<1	NA	NA	8.9	3.6	<1
temperature	degrees C	19.92	19.79	19.9	21.1	16.72	21.39	19.11	20.02	19.2	16.5	20.76	22.64	19.3
total organic carbon	mg/L	<1	NA	<1	43.3	NA	5.8	8570	<1	NA	NA	1.2	6.2	<1
turbidity	NTU	9.42	6.41	129	41.4	17.2	17.1	11.1	80.2	8.06	22.3	1.31	21	94.1

**Notes:**

- NA – Not Analyzed
- degrees C – degrees Celsius
- feet MSL – feet above mean sea level
- mg/L – milligrams per liter
- mV – millivolts
- NTU – nephelometric turbidity units
- su – standard units
- umhos/cm – micromhos/cm
- \* – 6/10/14 result for 1,4-dioxane = <0.002; resample on 7/11/14 tested by Method 522
- R\*\* – Results not reportable.

**Table 3**  
**Summary of Groundwater Analytical Results**  
**June 2014**  
**Auriga Spartanburg Facility**  
**AECOM Project No. 60280417**

Parameter	Unit	EW-53 6/12/2014	EW-53 Dup 6/12/2014	MW-03 6/13/2014	MW-05 6/11/2014	MW-07 6/11/2014	MW-09A 6/10/2014	MW-26 6/13/2014	MW-39 6/10/2014	MW-40R 6/13/2014	MW-41 6/10/2014	MW-42 6/10/2014	MW-45 6/12/2014	MW-46 6/12/2014
<b>Volatile Organics &amp; 1,4-Dioxane</b>														
acetone	mg/L	<0.025	<0.025	<0.025	NA	NA	NA	NA	NA	NA	NA	NA	<0.025	<0.025
2-butanone	mg/L	<0.01	<0.01	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	<0.01	<0.01
chloroform	mg/L	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005
1,1-dichloroethane	mg/L	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005
1,1-dichloroethene	mg/L	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	0.0137
cis-1,2-dichloroethene	mg/L	0.0057	0.0059	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005
trans-1,2-dichloroethene	mg/L	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005
1,4-dioxane	mg/L	<0.002	0.0027	0.0046	1.35	0.0813	0.0515	0.102	0.554	1.32	0.0124	0.0163	NA	NA
methylene chloride	mg/L	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005
1,1,2,2-tetrachloroethane	mg/L	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005
tetrachloroethene	mg/L	<0.005	<0.005	0.009	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005
trichloroethene	mg/L	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005
vinyl chloride	mg/L	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005
<b>DOWTHERM™ A</b>														
1,1-biphenyl	mg/L	<0.01	<0.01	NA	0.0239	1.07	NA	NA	1.14	0.553	NA	<0.01	NA	NA
diphenyl ether	mg/L	<0.01	<0.01	NA	0.142	4.16	NA	NA	3.71	1.71	NA	0.0249	NA	NA
<b>Field &amp; Natural Attenuation Parameters</b>														
alkalinity	mg/L	66.3	64.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.2	6.9
chloride	mg/L	9.5	9.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.3	14.3
dissolved oxygen	mg/L	0.65	NA	0.65	0.75	0.84	3.92	2.15	0.4	1.19	1.29	3.43	6.38	5.69
ferrous Fe	mg/L	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
groundwater elevation	feet MSL	699.44	NA	752.08	750.07	745.46	752.49	680.94	741.75	726.7	750.22	741.13	711.29	695.1
manganese (dissolved)	mg/L	1.36	1.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0115	0.0561
nitrate nitrogen	mg/L	<0.1	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	1.8
ORP	mV	58.1	NA	175.4	204.7	-23.8	193.2	237.8	-78.9	104.9	-61.4	44.8	154.4	264.8
orthophosphate phosphorus	mg/L	0.053	0.091	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.068	0.081
pH	su	5.05	NA	3.73	4.93	6.34	4.54	5.31	6.46	4.66	6.67	6.63	5.06	5.15
specific conductance	umhos/cm	245	NA	43	0.08	0.217	56	60	0.156	128	0.158	0.079	48	163
sulfate	mg/L	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	27.4
temperature	degrees C	19.75	NA	21.04	22.8	22.61	24	21.3	24.86	19.62	23.69	22.19	25.53	19.51
total organic carbon	mg/L	14.7	15.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.7	<1
turbidity	NTU	48.3	NA	15.4	2.08	1.59	3.98	3.34	5.56	9.17	15.6	115	9.64	2.13

**Notes:**

NA – Not Analyzed  
degrees C – degrees Celsius  
feet MSL – feet above mean sea level  
mg/L – milligrams per liter  
mV – millivolts  
NTU – nephelometric turbidity units  
su – standard units  
umhos/cm – micromhos/cm  
\* – 6/10/14 result for 1,4-dioxane = <0.002;  
resample on 7/11/14 tested by Method 522  
R\*\* – Results not reportable.

**Table 3**  
**Summary of Groundwater Analytical Results**  
**June 2014**  
**Auriga Spartanburg Facility**  
**AECOM Project No. 60280417**

Parameter	Unit	MW-53 6/11/2014	MW-57 6/13/2014	MW-81 6/10/2014	MW-95 6/17/2014	MW-96 6/17/2014	MW-97 6/17/2014	MW-98 6/12/2014	MW-99 6/12/2014	MW-102 6/10/2014	MW-103 6/12/2014	MW-105 6/11/2014	MW-106 6/11/2014	MW-107 6/17/2014
<b>Volatile Organics &amp; 1,4-Dioxane</b>														
acetone	mg/L	NA	NA	NA	NA	NA	NA	<0.025	<0.025	NA	<0.025	<0.025	<0.025	<0.025
2-butanone	mg/L	NA	NA	NA	NA	NA	NA	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01
chloroform	mg/L	NA	NA	NA	NA	NA	NA	<0.005	0.0066	NA	<0.005	0.129	0.0215	0.186
1,1-dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005
1,1-dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005
cis-1,2-dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	0.162	0.108	NA	<0.005	0.0105	<0.005	<0.005
trans-1,2-dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005
1,4-dioxane	mg/L	8.94	0.0128	0.0834	0.0000404	0.0253	0.0261	0.0423	0.0022	0.113	<0.002	0.0071	<0.002	<0.002
methylene chloride	mg/L	NA	NA	NA	NA	NA	NA	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005
1,1,2,2-tetrachloroethane	mg/L	NA	NA	NA	NA	NA	NA	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005
tetrachloroethene	mg/L	NA	NA	NA	NA	NA	NA	0.0296	0.127	NA	<0.005	<0.005	<0.005	<0.005
trichloroethene	mg/L	NA	NA	NA	NA	NA	NA	0.0149	0.0262	NA	<0.005	<0.005	<0.005	<0.005
vinyl chloride	mg/L	NA	NA	NA	NA	NA	NA	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005
<b>DOWTHERM™ A</b>														
1,1-biphenyl	mg/L	0.144	NA	1.07	NA	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
diphenyl ether	mg/L	0.543	NA	4.11	NA	0.0327	R**	NA	<0.01	0.0216	<0.01	<0.01	<0.01	R**
<b>Field &amp; Natural Attenuation Parameters</b>														
alkalinity	mg/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	<5	9.9	<5	25.8
chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	1.4	NA	2.2	6.9	4.1	1.9
dissolved oxygen	mg/L	1.08	5.99	0.64	NA	5.27	9.42	2.49	2.37	0.7	6.61	8.58	7.96	6.44
ferrous Fe	mg/L	NA	NA	NA	NA	NA	NA	NA	0	NA	0	0	0	0
groundwater elevation	feet MSL	761.18	733.41	762.08	NA	688.68	689.34	734.29	732.93	746.4	693.15	718.38	719.19	689.71
manganese (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	0.0372	NA	0.0413	<0.005	0.011	0.0087
nitrate nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	0.92	NA	2.4	1.7	0.83	1.2
ORP	mV	127.5	283.2	-23.1	NA	262.3	317	172.2	231.3	210.8	312.5	185.3	202.7	197.5
orthophosphate phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	<0.1	<0.1	<0.1
pH	su	4.88	4.97	6.21	NA	3.91	2.77	5.71	5.14	4.87	4.86	5.48	4.92	5.48
specific conductance	umhos/cm	2440	28	0.124	NA	0.042	0.034	56	31	0.164	49	10	0.032	76
sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	<1	<1	<1
temperature	degrees C	23.8	17.82	25.88	NA	16.93	17.93	19.74	21.12	25.19	18.23	21.21	22.4	18.69
total organic carbon	mg/L	NA	NA	NA	NA	NA	NA	NA	<1	NA	<1	<1	<1	<1
turbidity	NTU	8.41	9.78	8.72	NA	3.56	1.68	7.2	6.9	5.41	8.9	5.45	2.3	9.67

**Notes:**

NA – Not Analyzed  
degrees C – degrees Celsius  
feet MSL – feet above mean sea level  
mg/L – milligrams per liter  
mV – millivolts  
NTU – nephelometric turbidity units  
su – standard units  
umhos/cm – micromhos/cm  
\* – 6/10/14 result for 1,4-dioxane = <0.002;  
resample on 7/11/14 tested by Method 522  
R\*\* – Results not reportable.



**Table 3**  
**Summary of Groundwater Analytical Results**  
**June 2014**  
**Auriga Spartanburg Facility**  
**AECOM Project No. 60280417**

Parameter	Unit	MW-109 6/11/2014	MW-112 6/10/2014	MW-114 6/10/2014	MW-114 Dup 6/10/2014	MW-116 6/10/2014	MW-118 6/11/2014	MW-120 6/11/2014	MW-122 6/9/2014	MW-124 6/9/2014	MW-126 6/9/2014	MW-128 6/9/2014	MW-130 6/12/2014	MW-132 6/11/2014
<b>Volatile Organics &amp; 1,4-Dioxane</b>														
acetone	mg/L	<0.025	<0.25	<0.25	<0.025	<0.025	<0.1	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
2-butanone	mg/L	<0.01	<0.1	<0.1	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
chloroform	mg/L	0.722	1.47	1.28	1.22	0.919	0.507	0.193	0.0236	0.55	1.7	0.0052	0.0424	<0.005
1,1-dichloroethane	mg/L	<0.005	<0.05	<0.05	<0.005	<0.005	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-dichloroethene	mg/L	<0.005	<0.05	<0.05	<0.005	<0.005	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,2-dichloroethene	mg/L	<0.005	<0.05	<0.05	<0.005	<0.005	<0.02	<0.005	0.0157	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,2-dichloroethene	mg/L	<0.005	<0.05	<0.05	<0.005	<0.005	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,4-dioxane	mg/L	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	0.0046	NA	NA	NA	NA	NA	NA
methylene chloride	mg/L	<0.005	<0.05	<0.05	<0.005	<0.005	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2,2-tetrachloroethane	mg/L	<0.005	<0.05	<0.05	<0.005	<0.005	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
tetrachloroethene	mg/L	<0.005	<0.05	<0.05	<0.005	<0.005	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trichloroethene	mg/L	<0.005	<0.05	<0.05	<0.005	<0.005	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
vinyl chloride	mg/L	<0.005	<0.05	<0.05	<0.005	<0.005	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
<b>DOWTHERM™ A</b>														
1,1-biphenyl	mg/L	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
diphenyl ether	mg/L	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field &amp; Natural Attenuation Parameters</b>														
alkalinity	mg/L	20.4	20.3	11.8	12.1	23.2	10.5	11	21.6	<5	5.6	<5	9.2	11.3
chloride	mg/L	2.8	2.2	6.8	6.8	4.2	2.6	2.5	3.4	7.1	12.8	<1	<1	4.6
dissolved oxygen	mg/L	5.36	4.8	6.69	NA	2.97	6.33	4.02	3.69	5.59	5.98	9.97	3.93	0.58
ferrous Fe	mg/L	0	0	0	NA	0	0	0	NA	0.6	0	0	0	0
groundwater elevation	feet MSL	677.43	686.79	683.08	NA	678.94	674.36	664.82	726.663	725.55	717.95	717.86	699.15	697.93
manganese (dissolved)	mg/L	<0.005	<0.005	0.0072	0.0073	0.124	0.0271	0.0372	0.569	0.0231	0.124	0.0167	0.0516	0.11
nitrate nitrogen	mg/L	1.2	1.8	1.4	1.4	0.75	0.8	0.46	1.3	3.2	2.8	2	0.19	<0.1
ORP	mV	194.5	158.1	188.1	NA	117.2	195	182.6	75	201.2	215.4	293.1	217.4	295.3
orthophosphate phosphorus	mg/L	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA	<0.1
pH	su	4.05	5.85	5.74	NA	4.85	4.1	3.76	5.88	5.02	5.19	3.07	4.37	5.16
specific conductance	umhos/cm	64	76	72	NA	79	53	40	0.085	0.069	0.088	36	30	45
sulfate	mg/L	<1	<1	<1	<1	1.8	<1	<1	<1	<1	<1	<1	<1	<1
temperature	degrees C	19.41	18.09	17.63	NA	17.8	17.82	19.24	24.53	24.2	19.83	21.46	20.69	21.11
total organic carbon	mg/L	<1	<1	<1	<1	<1	<1	2.1	<1	<1	<1	<1	<1	<1
turbidity	NTU	146.2	1.9	6.9	NA	2.81	164.5	107.6	1.24	5.96	1.79	6.62	66.9	8.2

**Notes:**

NA – Not Analyzed  
degrees C – degrees Celsius  
feet MSL – feet above mean sea level  
mg/L – milligrams per liter  
mV – millivolts  
NTU – nephelometric turbidity units  
su – standard units  
umhos/cm – micromhos/cm  
\* – 6/10/14 result for 1,4-dioxane = <0.002;  
resample on 7/11/14 tested by Method 522  
R\*\* – Results not reportable.

**Table 3**  
**Summary of Groundwater Analytical Results**  
**June 2014**  
**Auriga Spartanburg Facility**  
**AECOM Project No. 60280417**

Parameter	Unit	MW-134 6/11/2014	MW-136 6/9/2014	MW-136 Dup 6/9/2014	MW-138 6/9/2014	RW-08 6/10/2014	RW-24 6/18/2014	RW-29 6/12/2014	RW-29 Dup 6/12/2014	RW-43 6/13/2014	RW-47 6/12/2014	RW-48 6/12/2014	RW-56 6/13/2014	RW-65 6/12/2014
<b>Volatiles Organics &amp; 1,4-Dioxane</b>														
acetone	mg/L	<1	<0.025	<0.025	<0.025	NA	NA	<0.025	<0.025	NA	<0.025	<0.025	NA	<0.025
2-butanone	mg/L	<0.4	<0.01	<0.01	<0.01	NA	NA	<0.01	<0.01	NA	<0.01	<0.01	NA	<0.01
chloroform	mg/L	6.31	<0.005	<0.005	0.169	NA	NA	<0.005	<0.005	NA	<0.005	<0.005	NA	<0.005
1,1-dichloroethane	mg/L	<0.2	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	NA	<0.005	<0.005	NA	<0.005
1,1-dichloroethene	mg/L	<0.2	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	NA	<0.005	<0.005	NA	<0.005
cis-1,2-dichloroethene	mg/L	<0.2	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	NA	<0.005	<0.005	NA	<0.005
trans-1,2-dichloroethene	mg/L	<0.2	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	NA	<0.005	<0.005	NA	<0.005
1,4-dioxane	mg/L	NA	NA	NA	NA	0.105	0.343	<0.002	<0.002	1.26	NA	<0.002	0.0818	<0.002
methylene chloride	mg/L	<0.2	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	NA	<0.005	<0.005	NA	<0.005
1,1,2,2-tetrachloroethane	mg/L	<0.2	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	NA	<0.005	<0.005	NA	<0.005
tetrachloroethene	mg/L	<0.2	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	NA	<0.005	<0.005	NA	<0.005
trichloroethene	mg/L	<0.2	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	NA	<0.005	<0.005	NA	<0.005
vinyl chloride	mg/L	<0.2	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	NA	<0.005	<0.005	NA	<0.005
<b>DOWTHERM™ A</b>														
1,1-biphenyl	mg/L	NA	NA	NA	NA	0.321	<0.01	<0.01	<0.01	<0.01	NA	<0.01	NA	<0.01
diphenyl ether	mg/L	NA	NA	NA	NA	1.53	0.0351	<0.01	<0.01	<0.01	NA	<0.01	NA	<0.01
<b>Field &amp; Natural Attenuation Parameters</b>														
alkalinity	mg/L	7.4	11.4	11.6	8.2	NA	NA	63.1	63.4	NA	510	105	NA	98.8
chloride	mg/L	1.9	11.7	11.7	2.3	NA	NA	1.2	1.2	NA	2.6	1.8	NA	12
dissolved oxygen	mg/L	1.87	5.07	NA	6.77	0.77	0.68	0.7	NA	0.27	0.49	0.44	2.89	0.55
ferrous Fe	mg/L	0	0	NA	0	NA	NA	0	NA	NA	0.9	1.6	NA	0.2
groundwater elevation	feet MSL	689.33	688.39	NA	676	747.28	663.08	775.1	NA	642.82	691.57	710.86	733.09	687.45
manganese (dissolved)	mg/L	0.0402	0.0738	0.0703	<0.005	NA	NA	0.0112	0.0107	NA	0.145	0.836	NA	1.43
nitrate nitrogen	mg/L	2.7	0.37	0.37	0.82	NA	NA	<0.1	<0.1	NA	<0.1	<0.1	NA	<0.1
ORP	mV	201.6	150	NA	224.1	-82.1	-24.7	40.9	NA	-57.1	-176.4	-44.7	117.4	-97.8
orthophosphate phosphorus	mg/L	<0.1	<0.1	<0.1	<0.1	NA	NA	0.15	0.16	NA	0.15	NA	NA	0.14
pH	su	5.4	5.59	NA	4.17	7.76	5.6	6.51	NA	9.22	8.16	5.88	6.38	7.56
specific conductance	umhos/cm	52	86	NA	40	0.265	599	153	NA	261	919	240	89	252
sulfate	mg/L	<1	<1	<1	<1	NA	NA	10.3	10.3	NA	<1	<1	NA	8.3
temperature	degrees C	20.19	23.48	NA	18.44	24.51	17.7	17.81	NA	15.69	17.52	19.97	20.7	17.4
total organic carbon	mg/L	<1	<1	<1	<1	NA	NA	<1	<1	NA	1.3	<1	NA	<1
turbidity	NTU	6.2	0.8	NA	5.86	3.18	6.94	2.86	NA	8.2	7.1	275.4	5.86	1.8

**Notes:**

NA – Not Analyzed  
degrees C – degrees Celsius  
feet MSL – feet above mean sea level  
mg/L – milligrams per liter  
mV – millivolts  
NTU – nephelometric turbidity units  
su – standard units  
umhos/cm – micromhos/cm  
\* – 6/10/14 result for 1,4-dioxane = <0.002;  
resample on 7/11/14 tested by Method 522  
R\*\* – Results not reportable.

**Table 3**  
**Summary of Groundwater Analytical Results**  
**June 2014**  
**Auriga Spartanburg Facility**  
**AECOM Project No. 60280417**

Parameter	Unit	RW-79 6/10/2014	RW-80 6/11/2014	RW-82 6/11/2014	RW-82 Dup 6/11/2014	RW-83A 6/10/2014	RW-84 6/10/2014	RW-85 6/10/2014	RW-85 Dup 6/10/2014	RW-86 6/11/2014	RW-87 6/10/2014	RW-91 6/11/2014	RW-92 6/11/2014	RW-108 6/11/2014	RW-110 6/10/2014
<b>Volatiles Organics &amp; 1,4-Dioxane</b>															
acetone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.025	<0.025
2-butanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.01	<0.01
chloroform	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005
1,1-dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005
1,1-dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005
cis-1,2-dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005
trans-1,2-dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005
1,4-dioxane	mg/L	0.0055	6.76	0.589	0.496	0.0044	0.0203	0.0215	0.0223	7.28	0.0035	3.23	3.46	<0.002	0.0049
methylene chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005
1,1,2,2-tetrachloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005
tetrachloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005
trichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005
vinyl chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005
<b>DOWTHERM™ A</b>															
1,1-biphenyl	mg/L	<0.01	0.042	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.353	<0.01	0.0891	0.0211	<0.01	NA
diphenyl ether	mg/L	<0.01	0.312	0.439	0.257	<0.01	<0.01	<0.01	<0.01	1.4	<0.01	0.288	1.76	<0.01	NA
<b>Field &amp; Natural Attenuation Parameters</b>															
alkalinity	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170	73.7
chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	2.7
dissolved oxygen	mg/L	5.14	0.45	0.39	NA	0.73	1.07	0.77	NA	0.24	1.21	0.49	0.54	0.58	1.25
ferrous Fe	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
groundwater elevation	feet MSL	758.32	764.52	757.21	NA	764.23	761.55	759.03	NA	758.46	764.27	756.87	758.33	676.34	683.91
manganese (dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.167	0.0061
nitrate nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	1.3
ORP	mV	141.9	82.1	-6.1	NA	178.4	5	102	NA	-115.3	57.5	-35.7	-58	-43.8	31.9
orthophosphate phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11	<0.1
pH	su	4.66	4.33	5.92	NA	5.56	5.69	4.62	NA	6.73	5.81	5.97	6.28	6.77	7.29
specific conductance	umhos/cm	85	0.769	0.366	NA	0.131	0.126	205	NA	1251	266	271	0.962	321	208
sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.1	9.7
temperature	degrees C	24.94	35.87	25.52	NA	29.03	28.73	24.21	NA	32.49	27.85	22.79	23.98	18.12	18.74
total organic carbon	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1
turbidity	NTU	8.4	3.42	2.18	NA	1.68	1.2	53.9	NA	7.57	4.67	2.4	3.66	16.4	17.2

**Notes:**

NA – Not Analyzed  
degrees C – degrees Celsius  
feet MSL – feet above mean sea level  
mg/L – milligrams per liter  
mV – millivolts  
NTU – nephelometric turbidity units  
su – standard units  
umhos/cm – micromhos/cm  
\* – 6/10/14 result for 1,4-dioxane = <0.002;  
resample on 7/11/14 tested by Method 522  
R\*\* – Results not reportable.

**Table 3**  
**Summary of Groundwater Analytical Results**  
**June 2014**  
**Auriga Spartanburg Facility**  
**AECOM Project No. 60280417**

Parameter	Unit	RW-111 6/10/2014	RW-113 6/10/2014	RW-115 6/10/2014	RW-119 6/12/2014	RW-121 6/11/2014	RW-123 6/9/2014	RW-127 6/9/2014	RW-129 6/11/2014	RW-133 6/10/2014	RW-137 6/9/2014	RW-139 6/9/2014
<b>Volatile Organics &amp; 1,4-Dioxane</b>												
acetone	mg/L	<0.025	<0.025	<0.25	0.24	<0.025	0.0259	<0.025	<0.025	<0.025	<0.025	<0.025
2-butanone	mg/L	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
chloroform	mg/L	<0.005	<0.005	2.5	0.17	0.114	0.0101	1.09	0.0078	0.0645	0.248	0.899
1,1-dichloroethane	mg/L	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-dichloroethene	mg/L	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,2-dichloroethene	mg/L	<0.005	<0.005	<0.05	<0.005	<0.005	0.0051	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,2-dichloroethene	mg/L	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,4-dioxane	mg/L	0.0000998*	<0.002	<0.002	0.0339	0.0033	NA	NA	NA	NA	NA	NA
methylene chloride	mg/L	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	0.0159	<0.005	<0.005	<0.005	<0.005
1,1,2,2-tetrachloroethane	mg/L	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
tetrachloroethene	mg/L	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trichloroethene	mg/L	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
vinyl chloride	mg/L	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
<b>DOWTHERM™ A</b>												
1,1-biphenyl	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
diphenyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field &amp; Natural Attenuation Parameters</b>												
alkalinity	mg/L	65.4	68.3	47.2	68.5	67.9	87	78.8	223	103	57.1	52.3
chloride	mg/L	1.3	1.6	5.8	2.4	2.2	2.3	10.6	12.9	4.1	5.5	3.5
dissolved oxygen	mg/L	0.72	0.54	3.9	4.49	0.95	1.5	0.89	0.45	0.87	1.43	0.94
ferrous Fe	mg/L	0	0	0	0	0	0.2	0	0	0	0.2	0
groundwater elevation	feet MSL	701.14	683.6	681.46	672.44	664.45	719.73	715.69	709.56	684.77	687.55	672.62
manganese (dissolved)	mg/L	0.0341	0.0401	0.0174	<0.005	0.007	0.0757	0.111	0.189	0.183	0.0221	0.0301
nitrate nitrogen	mg/L	<0.1	<0.1	1.8	0.45	0.17	<0.1	<0.1	<0.1	0.76	0.26	0.66
ORP	mV	-2.9	-97.4	55.9	119.4	117.9	-114.7	11.4	-34.1	91.3	64.8	207.7
orthophosphate phosphorus	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH	su	5.87	7.89	6.87	5.77	4.97	7.25	7.02	6.29	6.65	6.2	3.77
specific conductance	umhos/cm	162	162	149	176	146	0.193	0.217	472	225	141	129
sulfate	mg/L	10.5	8.5	2.8	7.2	3.6	4	9.6	6.3	1.8	<1	<1
temperature	degrees C	17.83	18.73	17.46	19.08	18.82	29.16	20.66	21.44	19.43	19.44	17.71
total organic carbon	mg/L	<1	<1	<1	1.3	1.3	4.8	1.2	4.9	<1	<1	<1
turbidity	NTU	3.11	1.03	4.8	308.9	8.67	4.61	2.16	33.9	15.6	1.2	23.1

**Notes:**

NA – Not Analyzed  
degrees C – degrees Celsius  
feet MSL – feet above mean sea level  
mg/L – milligrams per liter  
mV – millivolts  
NTU – nephelometric turbidity units  
su – standard units  
umhos/cm – micromhos/cm  
\* – 6/10/14 result for 1,4-dioxane = <0.002;  
resample on 7/11/14 tested by Method 522  
R\*\* – Results not reportable.

**Table 4**  
**Summary of Surface Water Analytical Results**  
**June 2013**  
**Auriga Spartanburg Facility**  
**AECOM Project No. 60280417**

Parameter	Unit	SW-01 6/11/2014	SW-02 6/11/2014	SW-03 6/11/2014	SW-04 6/11/2014	SW-05 6/11/2014	SW-06 6/11/2014	SW-07 6/11/2014	SW-08 6/11/2014	SW-09 6/11/2014	SW-10 6/11/2014	SW-11 6/11/2014	SW-12 6/10/2014	SW-13 6/11/2014	SW-14 6/11/2014
chloroform	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0127	0.0125	0.0064
1,4-dioxane	mg/L	<0.002	<0.002	<0.002	0.0021	0.0119	0.0022	<0.002	<0.002	0.0024	0.017	<0.002	<0.002	<0.002	<0.002
dissolved oxygen	mg/L	6.98	6.98	7.11	7.69	6.21	6.99	7.69	6.41	6.71	6.69	7.11	8	8.14	8.77
ORP	mV	-58.3	-50.8	-48.2	-32.6	-43.1	-49.3	-49.6	-55.8	-69.8	-37.6	-69.2	94.7	90.7	93.9
pH	su	7.14	7.12	6.98	7.31	7.11	6.91	7.09	7.71	7.86	8.19	6.78	7.02	5.95	5.81
specific conductance	umhos/cm	74	69	69	86	69	58	63	53	52	533	108	159	96	95
turbidity	NTU	12.1	9.2	8.3	6.4	17.4	12.2	12.1	8.4	10.1	9.4	12.6	4.2	5.52	2.97
temperature	degrees C	21.4	21.8	21.1	21	21.7	22.1	22.2	23.2	21.6	29.3	21.1	22.1	22	22.1

NA - Not Analyzed  
degrees C - degrees Celsius  
mg/L - milligrams per liter  
mV - millivolts  
NTU = nephelometric turbidity units  
su - standard units  
umhos/cm - micromhos/cm

**Table 5**  
**Summary of Baseline Performance Monitoring Results**  
**April 2014**  
**Auriga Spartanburg Facility**  
**AECOM Project No. 60280417**

Parameter	Unit	MW-112 4/1/2014	MW-114 4/2/2014	MW-114 Dup 4/2/2014	MW-116 4/1/2014	MW-118 4/1/2014	MW-120 4/2/2014	MW-122 4/3/2014	MW-124 4/3/2014	MW-126 4/3/2014
<b>Volatile Organics and 1,4-Dioxane</b>										
chloroform	mg/L	2.00	1.66	1.49	0.845	0.697	0.149	0.0308	0.798	2.00
cis-1,2-dichloroethene	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0183	<0.005	<0.005
1,4-dioxane	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	0.0023	NA	NA	NA
methylene chloride	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
tetrachloroethene	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0067	0.0054
<b>Semivolatile Organics</b>										
bis(2-ethylhexyl)phthalate	mg/L	<0.006	<0.006	<0.006	<0.006	0.0068	<0.006	NA	NA	NA
di-n-octyl phthalate	mg/L	<0.01	0.0127	0.0129	<0.01	0.02	<0.01	NA	NA	NA
<b>Field and Natural Attenuation Parameters</b>										
alkalinity	mg/L	21.5	16.3	15.1	23.6	11.7	14.8	15.8	<5	7.9
chloride	mg/L	2.5	7.2	7.2	5.1	3.3	2.8	3.3	7	13.9
dissolved oxygen	mg/L	5.5	6.07	6.07	3.6	6.41	4.51	4.59	5.83	6.52
ferrous Fe	mg/L	0	0.17	0.17	0.06	0.11	0.02	0.08	0.06	0.04
groundwater elevation	feet MSL	687.60	683.20	683.20	680.30	674.05	665.08	727.56	725.74	718.50
manganese (dissolved)	mg/L	<0.005	0.0158	0.015	0.19	0.034	0.0361	0.109	0.0511	0.182
ORP	mV	152.9	153.3	153.3	139.8	149.3	150	219.8	238.4	185.8
pH	su	5.12	4.95	4.95	4.74	4.81	4.88	5.11	4.98	4.15
specific conductance	umhos/cm	0.118	0.123	0.123	0.134	0.074	0.073	0.053	0.062	0.168
temperature	degrees C	15.74	16.95	16.95	18.66	19.11	21.92	20.68	21.8	18.2
total organic carbon	mg/L	1.9	<1	<1	<1	<1	<1	<1	<1	<1
turbidity	NTU	0.17	5.03	5.03	1.68	3.57	4.11	7.03	9.33	0.01

NA - Not Analyzed  
degrees C - degrees Celsius  
feet MSL - feet above mean sea level  
mg/L - milligrams per liter  
mV - millivolts  
NTU = nephelometric turbidity units  
su - standard units  
umhos/cm - micromhos/cm

**Table 5**  
**Summary of Baseline Performance Monitoring Results**  
**April 2014**  
**Auriga Spartanburg Facility**  
**AECOM Project No. 60280417**

Parameter	Unit	MW-128 4/2/2014	MW-130 4/1/2014	MW-132 4/2/2014	MW-132 Dup 4/2/2014	MW-134 4/2/2014	MW-136 3/31/2014	MW-138 3/31/2014	RW-113 4/1/2014	RW-115 4/2/2014
<b>Volatile Organics and 1,4-Dioxane</b>										
chloroform	mg/L	0.0077	0.0398	<0.005	<0.005	5.29	<0.005	0.148	<0.005	2.57
cis-1,2-dichloroethene	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,4-dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.002	<0.002
methylene chloride	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
tetrachloroethene	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
<b>Semivolatile Organics</b>										
bis(2-ethylhexyl)phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.006	<0.006
di-n-octyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	<0.01	<0.01
<b>Field and Natural Attenuation Parameters</b>										
alkalinity	mg/L	<5	8.7	13.1	12.6	8.3	13.1	8.9	64.8	33.4
chloride	mg/L	1.5	1.2	5.2	5.1	2.3	13.9	2.6	1.9	5.9
dissolved oxygen	mg/L	9.28	2.98	0.25	0.25	2.08	5.85	6.18	1.91	5.5
ferrous Fe	mg/L	0.08	0.04	0.01	0.01	0.02	0	0.05	0.05	0.69
groundwater elevation	feet MSL	717.63	698.93	697.62	697.62	688.53	688.51	676.86	683.78	681.50
manganese (dissolved)	mg/L	0.0208	0.0675	0.116	0.117	0.0538	0.132	0.0067	0.048	0.0125
ORP	mV	280.1	269.8	303.5	303.5	238.1	152.5	170.1	109.5	130.1
pH	su	4.21	5.15	4.62	4.62	4.85	4.89	4.95	7.68	5.95
specific conductance	umhos/cm	0.031	0.029	0.046	0.046	0.047	0.117	0.072	0.252	0.172
temperature	degrees C	23.37	24.28	21.98	21.98	23.13	18.87	15.2	20.64	19.68
total organic carbon	mg/L	<1	<1	1.1	<1	<1	1.1	1.4	1.3	<1
turbidity	NTU	9.73	16.85	4.57	4.57	12.78	1.33	0.46	0	7.38

NA - Not Analyzed  
degrees C - degrees Celsius  
feet MSL - feet above mean sea level  
mg/L - milligrams per liter  
mV - millivolts  
NTU = nephelometric turbidity units  
su - standard units  
umhos/cm - micromhos/cm

**Table 5**  
**Summary of Baseline Performance Monitoring Results**  
**April 2014**  
**Auriga Spartanburg Facility**  
**AECOM Project No. 60280417**

Parameter	Unit	RW-119 4/1/2014	RW-121 4/2/2014	RW-123 4/3/2014	RW-123 Dup 4/3/2014	RW-127 4/3/2014	RW-129 4/2/2014	RW-133 4/2/2014	RW-137 3/31/2014	RW-139 3/31/2014
<b>Volatile Organics and 1,4-Dioxane</b>										
chloroform	mg/L	0.214	0.115	0.0235	0.0224	1.06	0.575	0.0492	0.243	0.958
cis-1,2-dichloroethene	mg/L	<0.005	<0.005	0.0079	0.0074	0.0086	<0.005	<0.005	<0.005	<0.005
1,4-dioxane	mg/L	0.0048	0.0034	NA	NA	NA	NA	NA	NA	NA
methylene chloride	mg/L	<0.005	<0.005	<0.005	<0.005	0.0189	0.0141	<0.005	<0.005	<0.005
tetrachloroethene	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
<b>Semivolatile Organics</b>										
bis(2-ethylhexyl)phthalate	mg/L	<0.006	<0.006	NA	NA	NA	NA	NA	NA	NA
di-n-octyl phthalate	mg/L	<0.01	<0.01	NA	NA	NA	NA	NA	NA	NA
<b>Field and Natural Attenuation Parameters</b>										
alkalinity	mg/L	71.7	68.8	85.5	85.8	85.8	242	127	69.6	57.9
chloride	mg/L	3	2.6	2.8	2.7	11.6	13.2	4.9	6.3	4.3
dissolved oxygen	mg/L	8.2	1.95	0.47	0.47	1.17	0.2	2.58	0.84	0.46
ferrous Fe	mg/L	0.12	0	0	0	0	0.08	0.02	0.22	0.12
groundwater elevation	feet MSL	673.15	664.63	720.25	720.25	716.16	709.34	683.24	687.99	673.26
manganese (dissolved)	mg/L	0.0086	<0.005	0.0129	0.0128	0.0647	0.161	0.14	0.0549	0.0349
ORP	mV	127.5	116.4	44.5	44.5	137.2	3.5	158.9	119.8	131.6
pH	su	7.23	6.98	7.41	7.41	6.9	6.49	5.92	5.81	5.39
specific conductance	umhos/cm	0.269	0.232	0.161	0.161	0.369	0.433	0.211	0.217	0.195
temperature	degrees C	15.83	19.67	20.25	20.25	19.81	21.62	18.83	20.99	16.94
total organic carbon	mg/L	<1	2.7	<1	1.1	<1	1.2	1.1	1.9	1.3
turbidity	NTU	257.7	1.79	0.46	0.46	0.44	0.01	23.36	3.65	0.64

NA - Not Analyzed

degrees C - degree Celsius

feet MSL - feet above mean sea level

mg/L - milligrams per liter

mV - millivolts

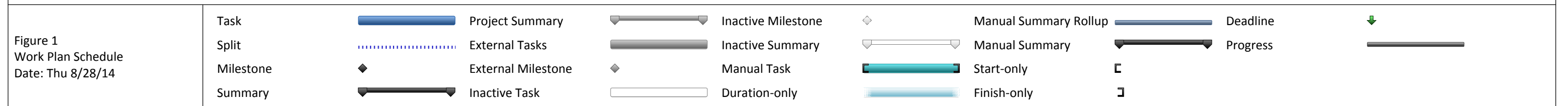
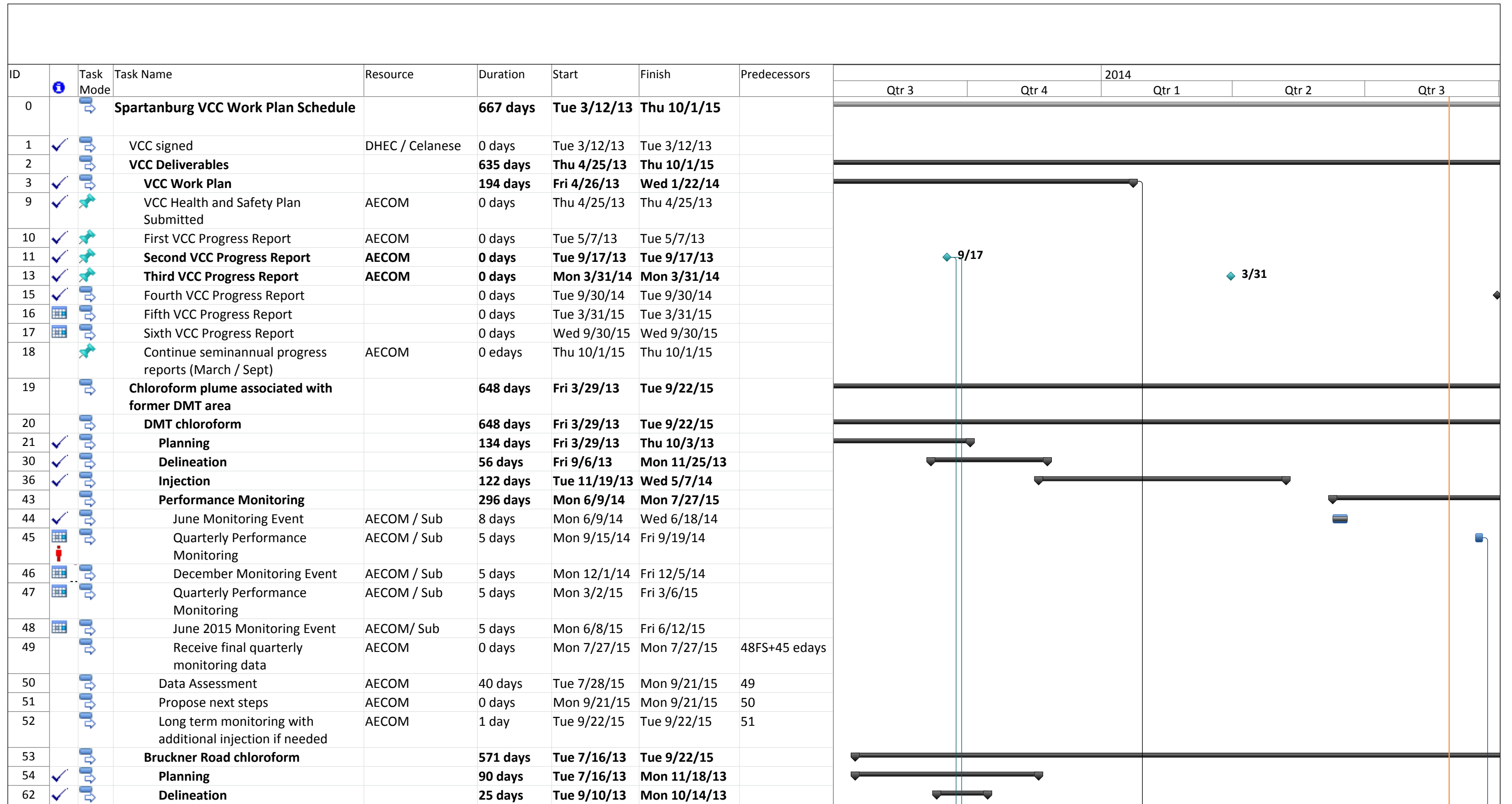
NTU = nephelometric turbidity units

su - standard units

umhos/cm - micromhos/cm



## Figures



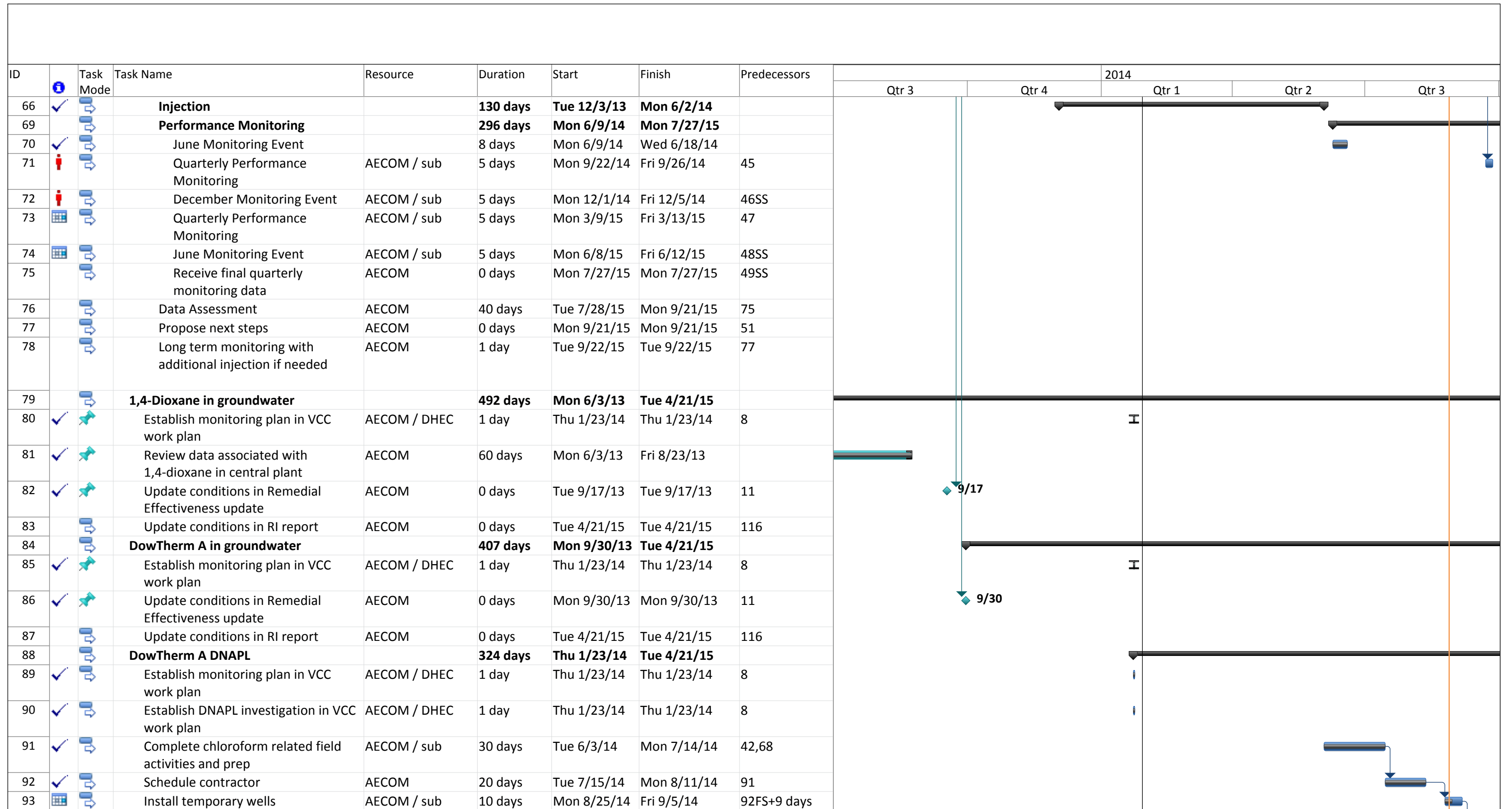
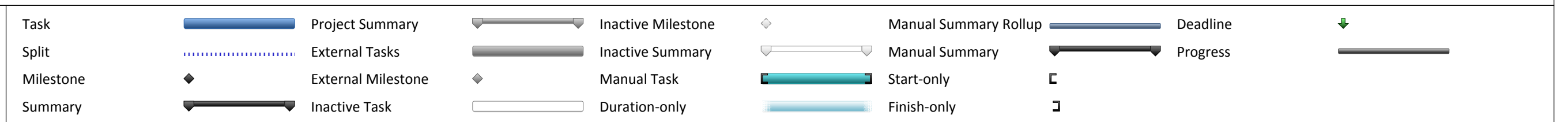


Figure 1  
Work Plan Schedule  
Date: Thu 8/28/14



ID	Task Mode	Task Name	Resource	Duration	Start	Finish	Predecessors	2014				
								Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3
94		Complete DowTherm A field investigation	AECOM / sub	45 days	Mon 9/8/14	Fri 11/7/14	93					
95		Review results	AECOM	30 days	Mon 11/10/14	Fri 12/19/14	94					
96		Submit recommendations to DHEC in RI Report	AECOM	1 day	Tue 4/21/15	Tue 4/21/15	120,95					
97	✓	<b>Other chlorinated solvents in groundwater</b>		<b>1 day</b>	<b>Thu 1/23/14</b>	<b>Thu 1/23/14</b>						
100		<b>Cherokee Creek sediments and ecological habitat</b>		<b>324 days</b>	<b>Thu 1/23/14</b>	<b>Tue 4/21/15</b>						
101	✓	submit plan forward in VCC work plan	AECOM	1 day	Thu 1/23/14	Thu 1/23/14	3					
102		review recommendations and update in RI	AECOM	1 day	Tue 4/21/15	Tue 4/21/15	120					
103		<b>Site wide activities</b>		<b>482 days</b>	<b>Mon 6/17/13</b>	<b>Tue 4/21/15</b>						
104	✓	<b>June 2013 Annual Sampling</b>		<b>28 days</b>	<b>Mon 6/17/13</b>	<b>Wed 7/24/13</b>						
108	✓	<b>December 2013 Monitoring</b>		<b>28 days</b>	<b>Mon 12/2/13</b>	<b>Wed 1/8/14</b>						
112	✓	<b>June 2014 Annual Sampling</b>		<b>30 days</b>	<b>Mon 6/9/14</b>	<b>Fri 7/18/14</b>						
116		<b>Remedial Investigation Report</b>		<b>87 days</b>	<b>Mon 12/22/14</b>	<b>Tue 4/21/15</b>						
117		Complete work plan investigations	AECOM / DHEC / subs	1 day	Mon 12/22/14	Mon 12/22/14	115,95					
118		draft RI	AECOM	50 days	Tue 12/23/14	Mon 3/2/15	117					
119		review RI	Celanese	25 days	Tue 3/3/15	Mon 4/6/15	118					
120		complete RI	AECOM	10 days	Tue 4/7/15	Mon 4/20/15	119					
121		Submit RI	AECOM	1 day	Tue 4/21/15	Tue 4/21/15	120					
122		Continue Monitoring as established in Work Plan	AECOM / EFM	1 eday	Fri 7/18/14	Sat 7/19/14	112					

Figure 1  
Work Plan Schedule  
Date: Thu 8/28/14

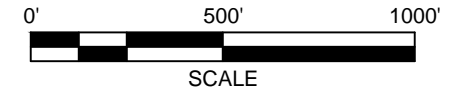
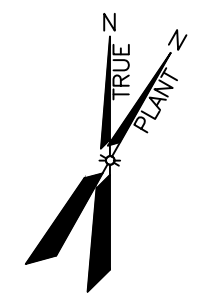
Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Deadline	
Split		External Tasks		Inactive Summary		Manual Summary		Progress	
Milestone		External Milestone		Manual Task		Start-only			
Summary		Inactive Task		Duration-only		Finish-only			



**LEGEND**

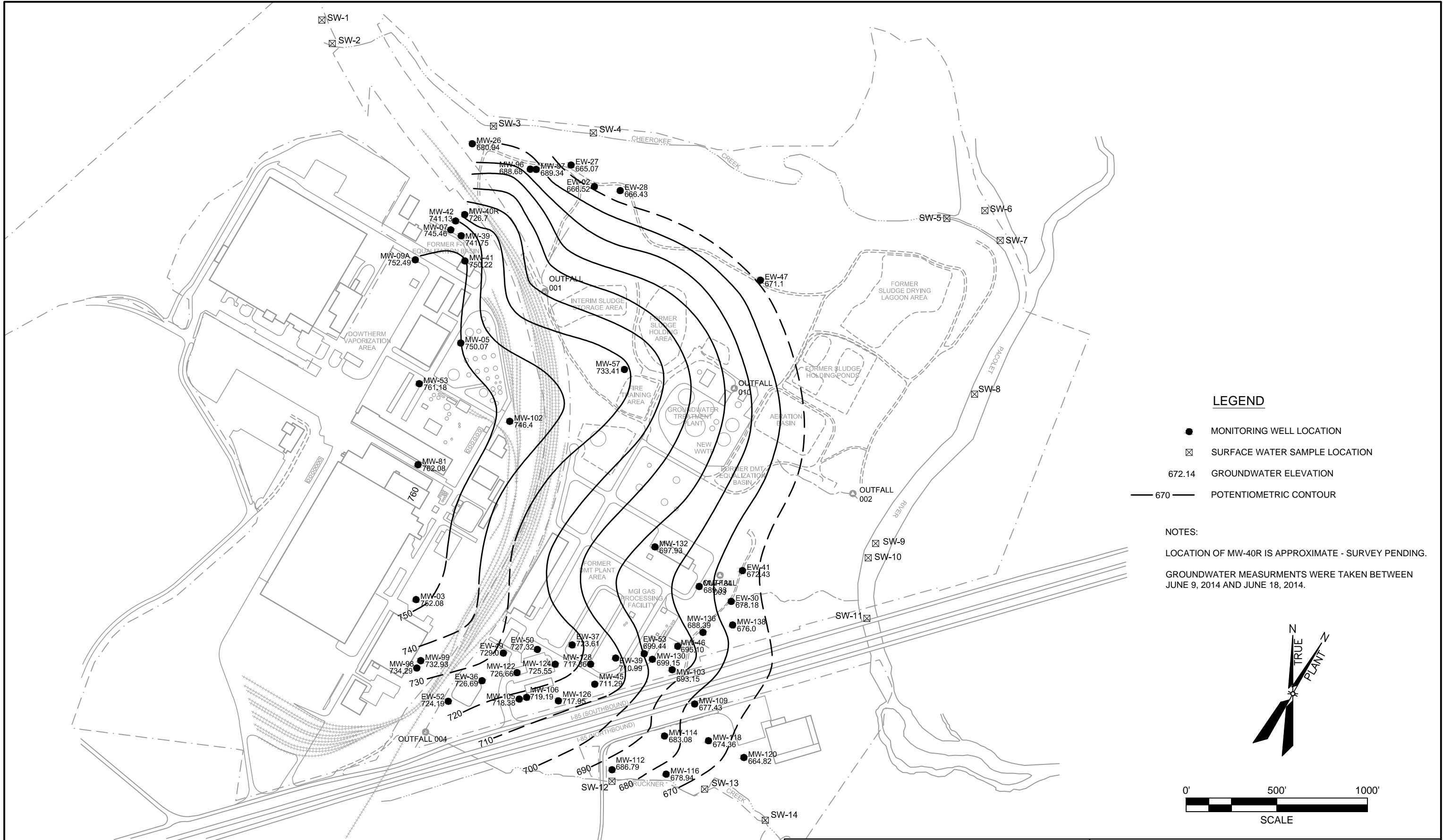
- MONITORING WELL LOCATION
- ☒ SURFACE WATER SAMPLE LOCATION

NOTE: LOCATION OF MW-40R IS APPROXIMATE - SURVEY PENDING.



**FIGURE 2**  
SAMPLE LOCATION MAP  
JUNE 2014

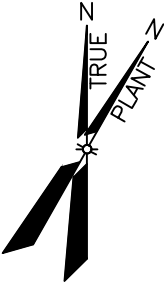
AURIGA SPARTANBURG FACILITY  
SPARTANBURG, SOUTH CAROLINA



**LEGEND**

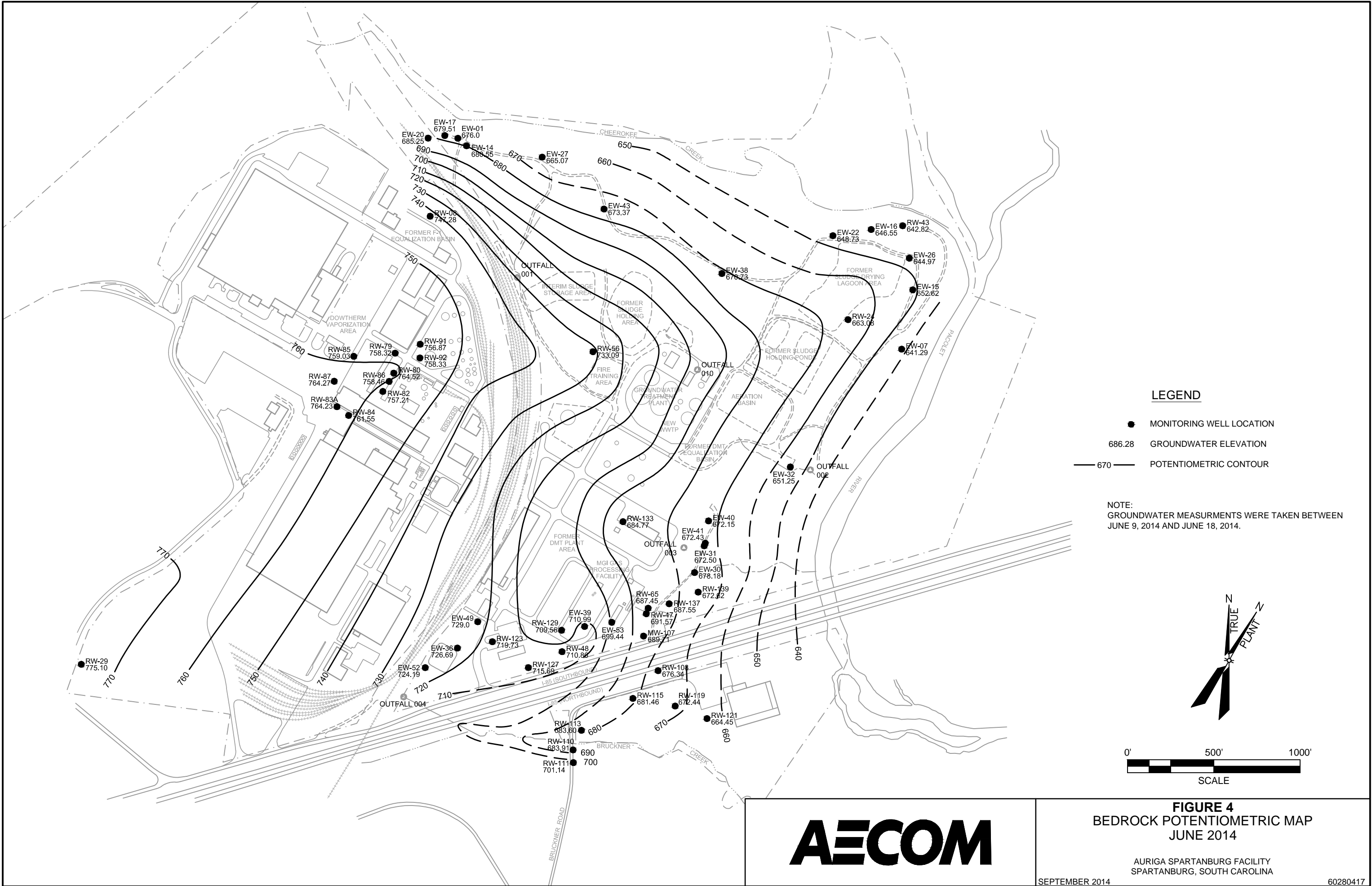
- MONITORING WELL LOCATION
- ☒ SURFACE WATER SAMPLE LOCATION
- 672.14 GROUNDWATER ELEVATION
- 670 — POTENTIOMETRIC CONTOUR

NOTES:  
 LOCATION OF MW-40R IS APPROXIMATE - SURVEY PENDING.  
 GROUNDWATER MEASUREMENTS WERE TAKEN BETWEEN JUNE 9, 2014 AND JUNE 18, 2014.



**FIGURE 3**  
**SAPROLITE POTENTIOMETRIC MAP**  
**JUNE 2014**

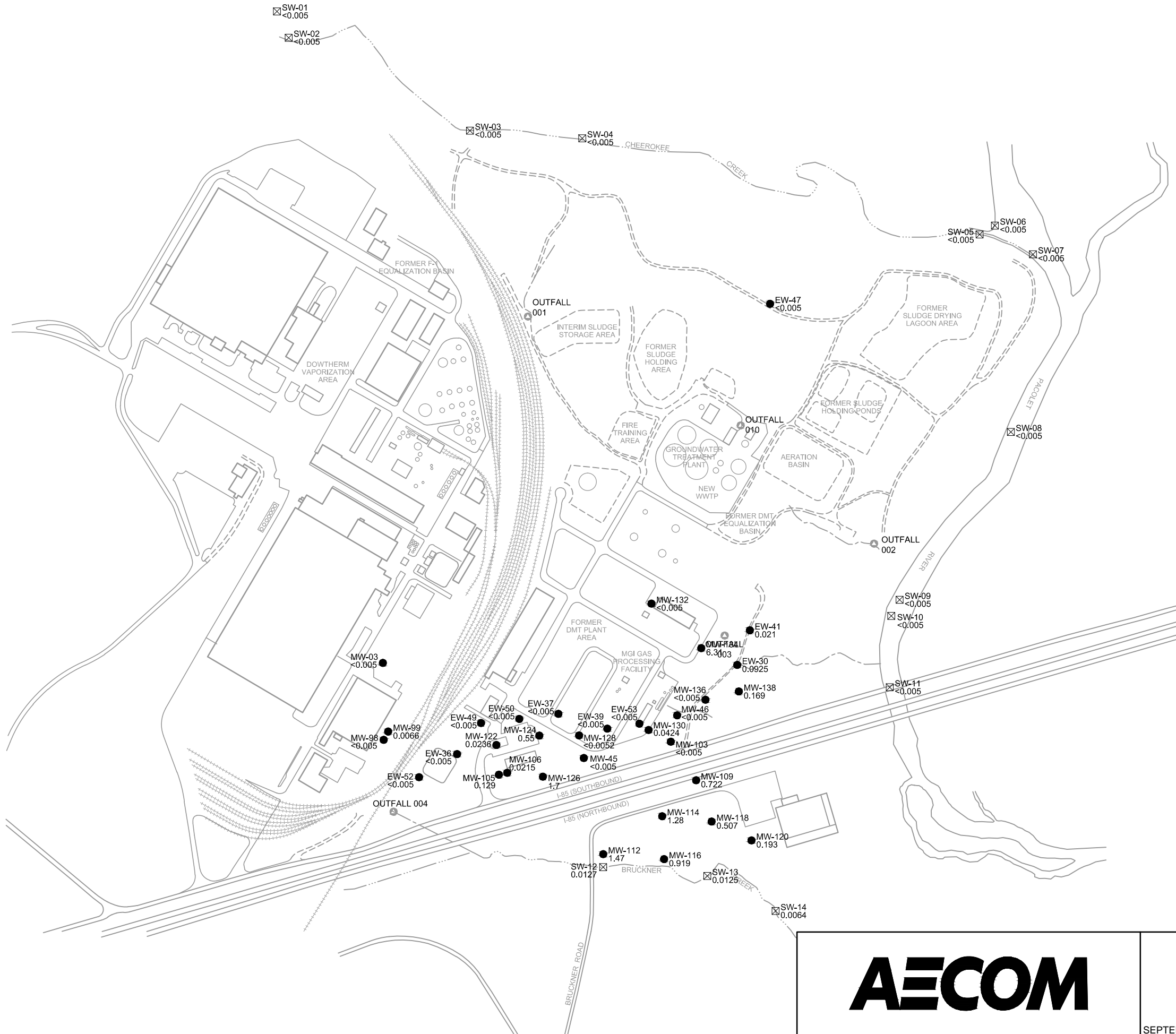
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# AECOM

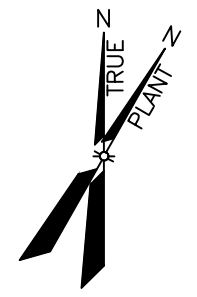
**FIGURE 4**  
**BEDROCK POTENTIOMETRIC MAP**  
**JUNE 2014**

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SPARTANBURG, SOUTH CAROLINA



**LEGEND**

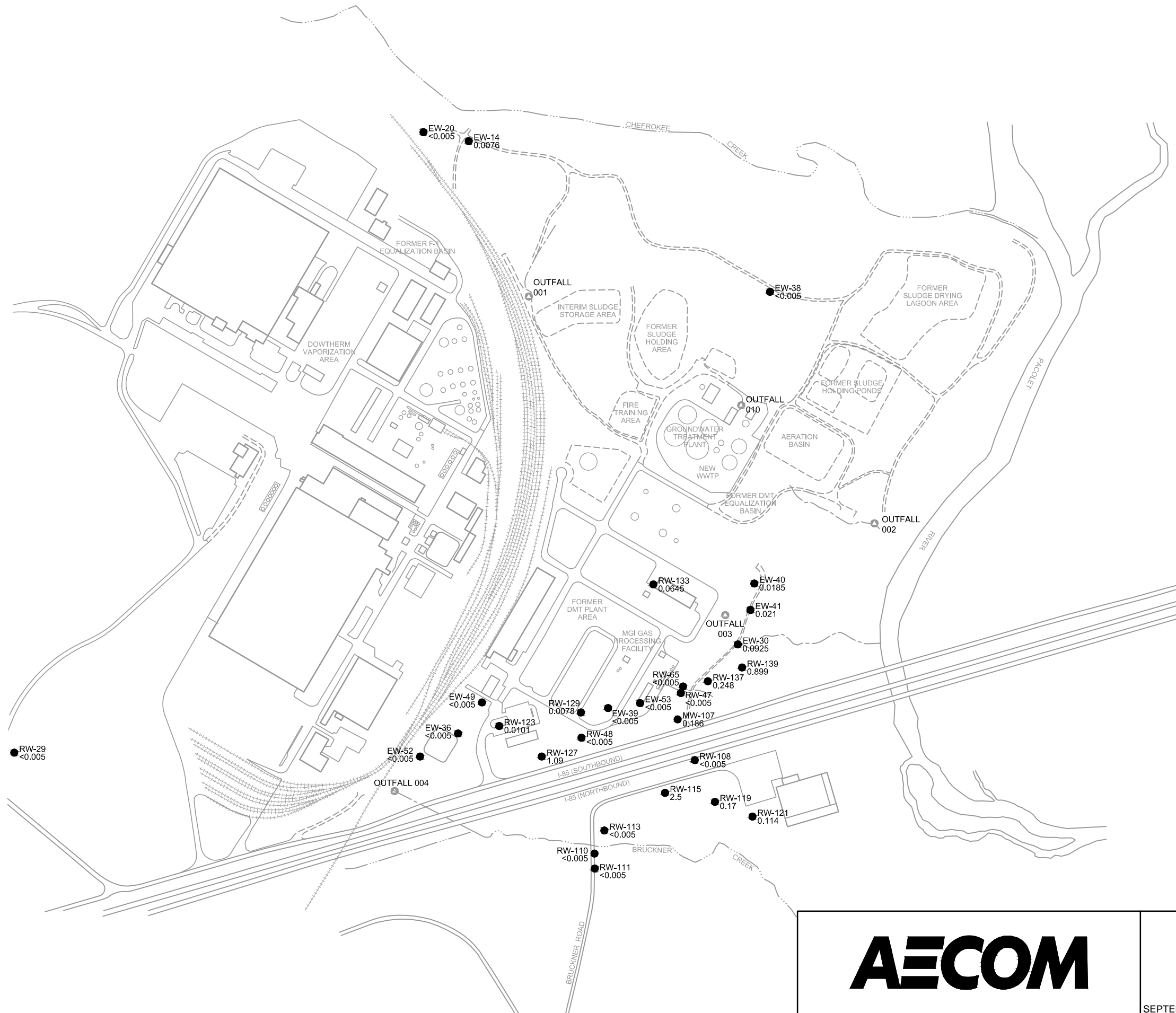
- MONITORING WELL LOCATION
- ☒ SURFACE WATER SAMPLE LOCATION
- 0.0075 CHLOROFORM CONCENTRATION (mg/L)



**FIGURE 5**  
**SAPROLITE CHLOROFORM**  
**JUNE 2014**

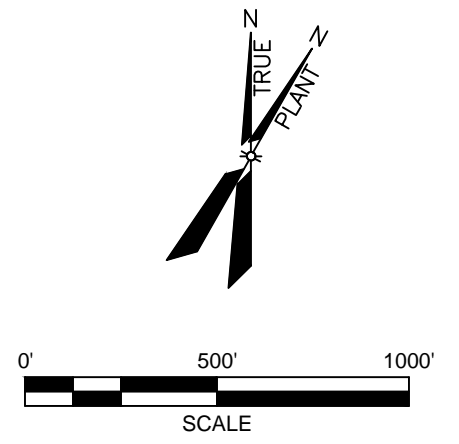
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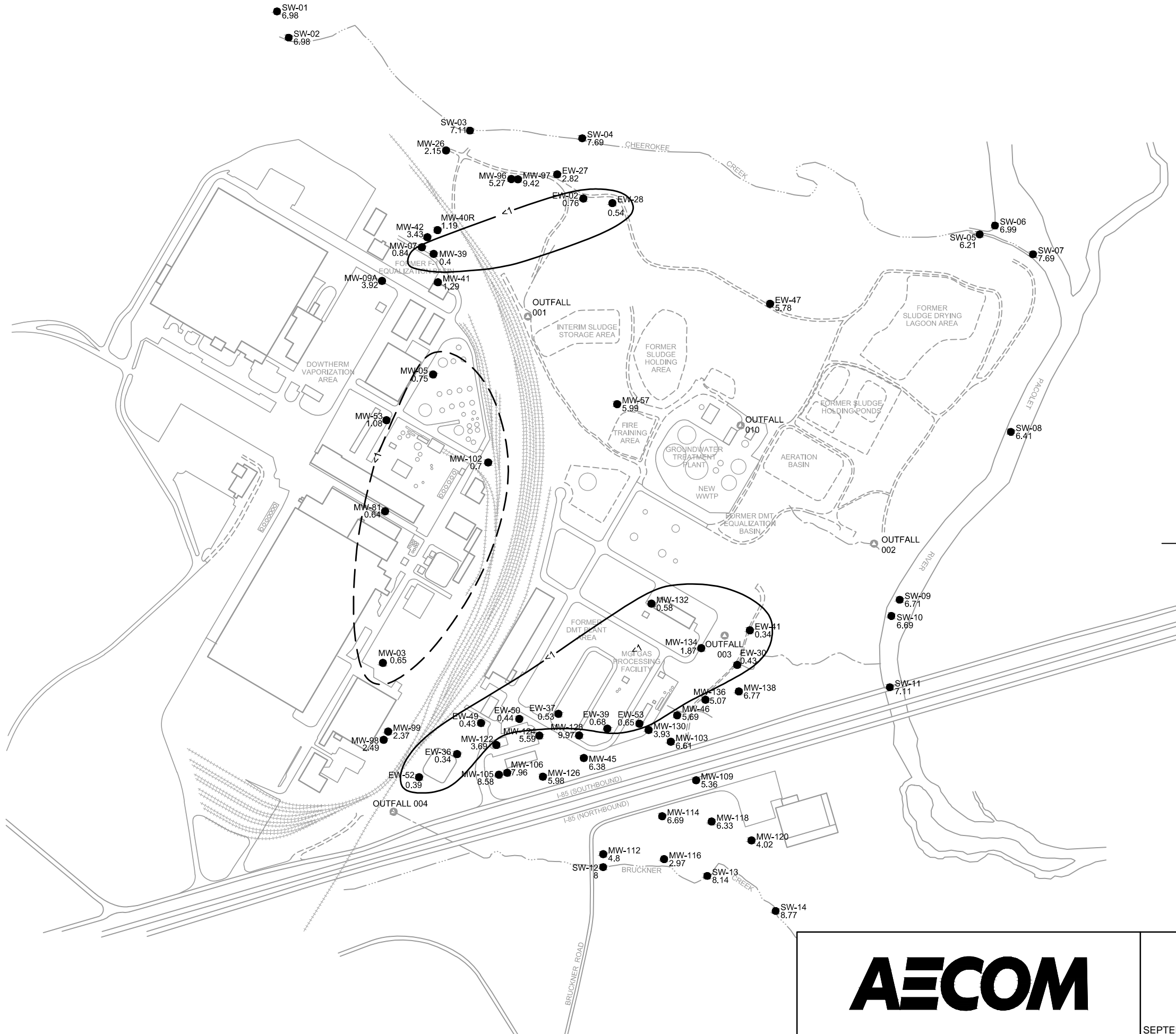
**LEGEND**

- MONITORING WELL LOCATION
- <0.00514 CHLOROFORM CONCENTRATION (mg/L)



**FIGURE 6**  
**BEDROCK CHLOROFORM**  
**JUNE 2014**

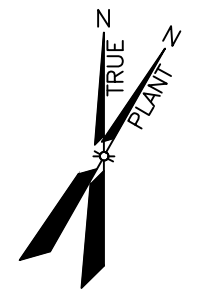
AURIGA SPARTANBURG FACILITY  
SPARTANBURG, SOUTH CAROLINA



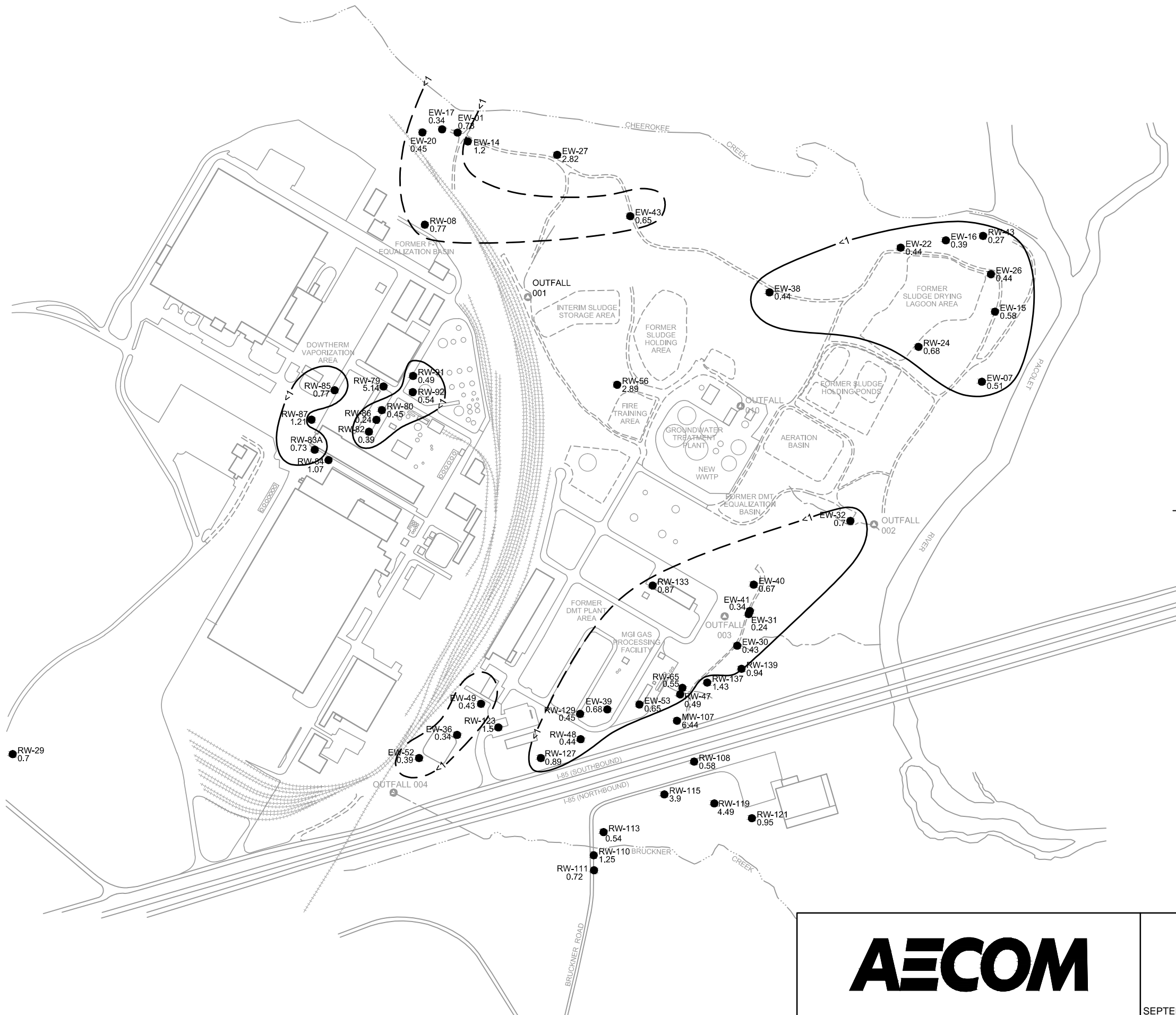
**LEGEND**

- MONITORING WELL LOCATION
- ⊠ SURFACE WATER SAMPLE LOCATION
- 0.23 DISSOLVED OXYGEN CONCENTRATION
- 0.23 — DISSOLVED OXYGEN ISOCONCENTRATION CONTOUR

NOTE: LOCATION OF MW-40R IS APPROXIMATE - SURVEY PENDING.

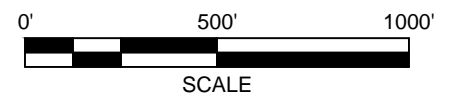
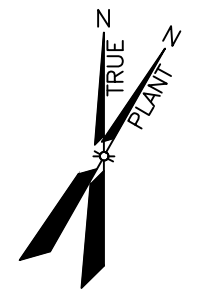


**FIGURE 7**  
**SAPROLITE DISSOLVED OXYGEN**  
**ISOCONCENTRATION MAP**  
**JUNE 2014**  
 AURIGA SPARTANBURG FACILITY  
 SPARTANBURG, SOUTH CAROLINA



**LEGEND**

- MONITORING WELL LOCATION
- 0.14 DISSOLVED OXYGEN CONCENTRATION
- >1 — DISSOLVED OXYGEN ISOCONCENTRATION CONTOUR



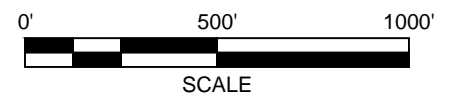
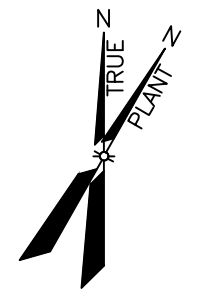
**FIGURE 8**  
**BEDROCK DISSOLVED OXYGEN**  
**ISOCONCENTRATION MAP**  
**JUNE 2014**  
 AURIGA SPARTANBURG FACILITY  
 SPARTANBURG, SOUTH CAROLINA



**LEGEND**

- MONITORING WELL LOCATION
- ⊠ SURFACE WATER SAMPLE LOCATION
- 27.5 ORP CONCENTRATION
- <1 — ORP ISOCONCENTRATION CONTOUR

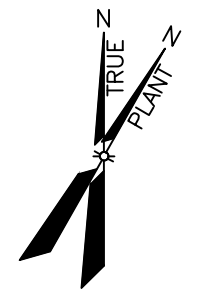
NOTE: LOCATION OF MW-40R IS APPROXIMATE - SURVEY PENDING.



**FIGURE 9**  
**SAPROLITE ORP ISOCONCENTRATION MAP**  
**JUNE 2014**



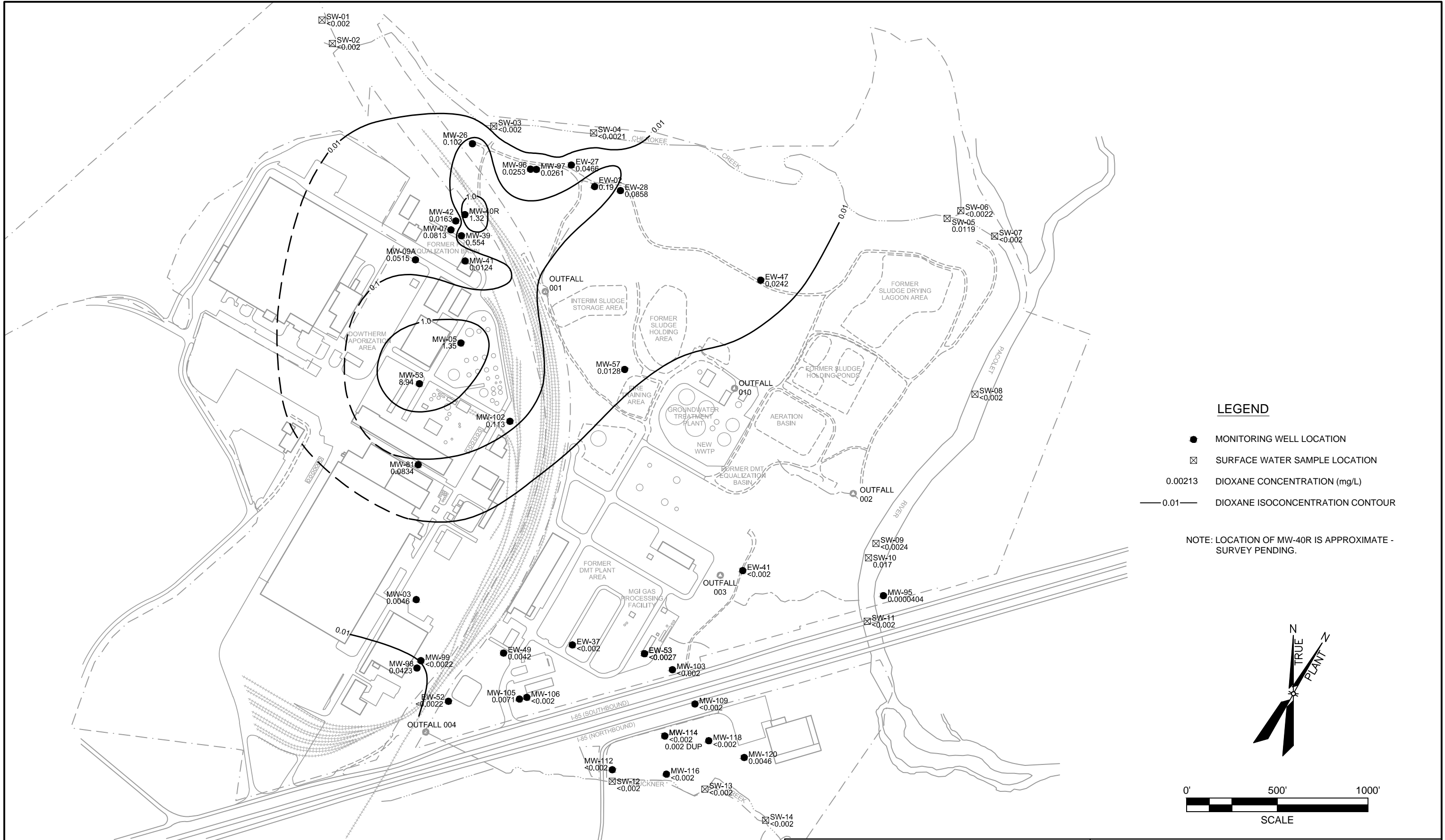
- LEGEND**
- MONITORING WELL LOCATION
  - 0.00514 ORP CONCENTRATION
  - - ->0 - - - ORP ISOCONCENTRATION CONTOUR



**FIGURE 10**  
**BEDROCK ORP ISOCONCENTRATION MAP**  
**JUNE 2014**

8/20/2014 1:12 PM

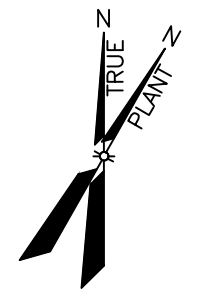
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**LEGEND**

- MONITORING WELL LOCATION
- ☒ SURFACE WATER SAMPLE LOCATION
- 0.00213 DIOXANE CONCENTRATION (mg/L)
- 0.01— DIOXANE ISOCONCENTRATION CONTOUR

NOTE: LOCATION OF MW-40R IS APPROXIMATE - SURVEY PENDING.

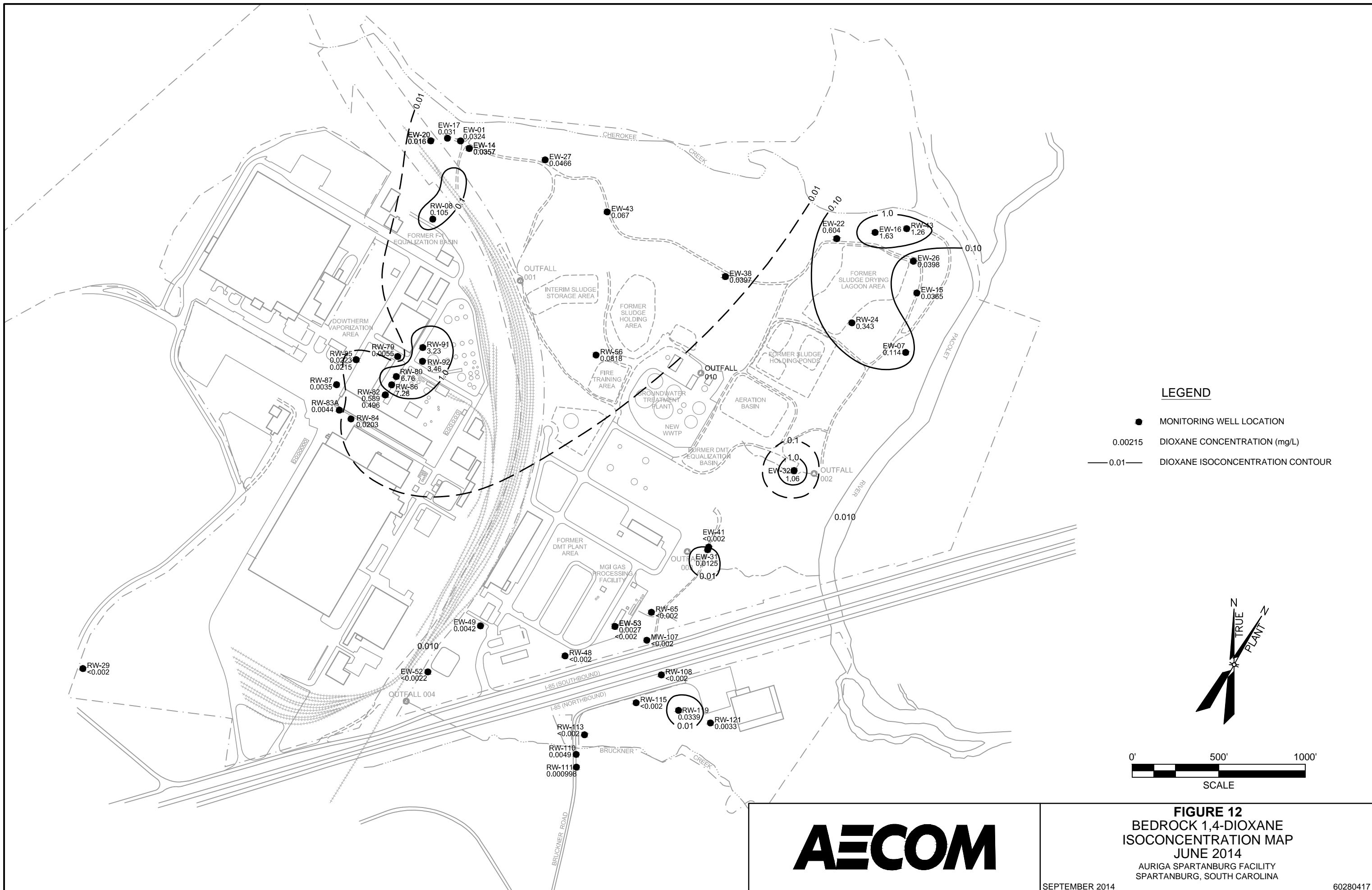


**AECOM**

**FIGURE 11**  
**SAPROLITE 1,4-DIOXANE**  
**ISOCONCENTRATION MAP**  
**JUNE 2014**  
 AURIGA SPARTANBURG FACILITY  
 SPARTANBURG, SOUTH CAROLINA

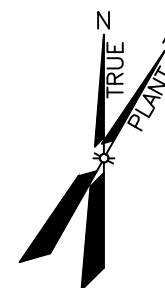
SEPTEMBER 2014

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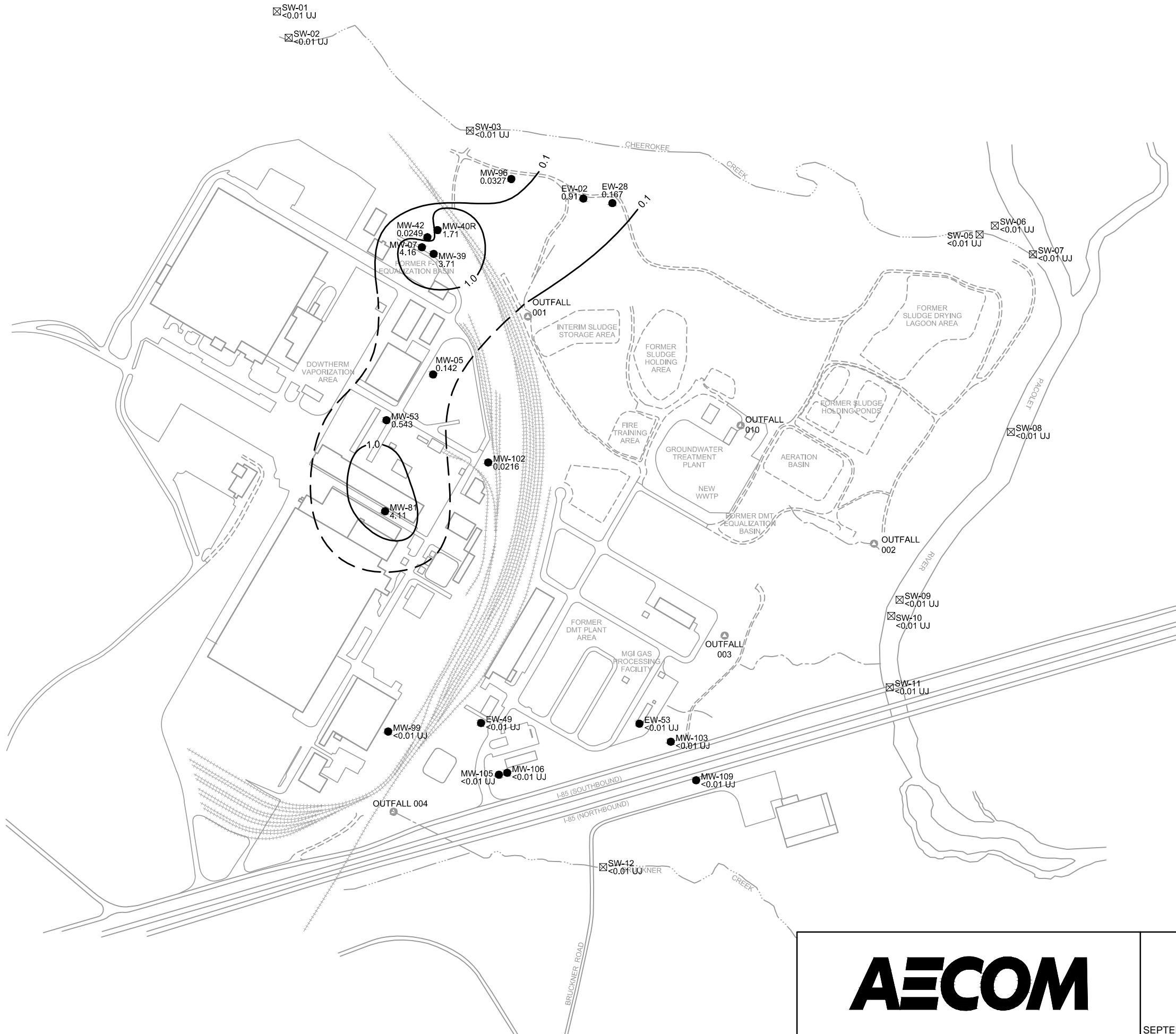


**LEGEND**

- MONITORING WELL LOCATION
- 0.00215 DIOXANE CONCENTRATION (mg/L)
- 0.01— DIOXANE ISOCONCENTRATION CONTOUR



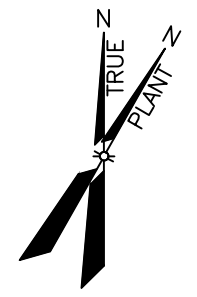
**FIGURE 12**  
**BEDROCK 1,4-DIOXANE**  
**ISOCONCENTRATION MAP**  
**JUNE 2014**  
 AURIGA SPARTANBURG FACILITY  
 SPARTANBURG, SOUTH CAROLINA



**LEGEND**

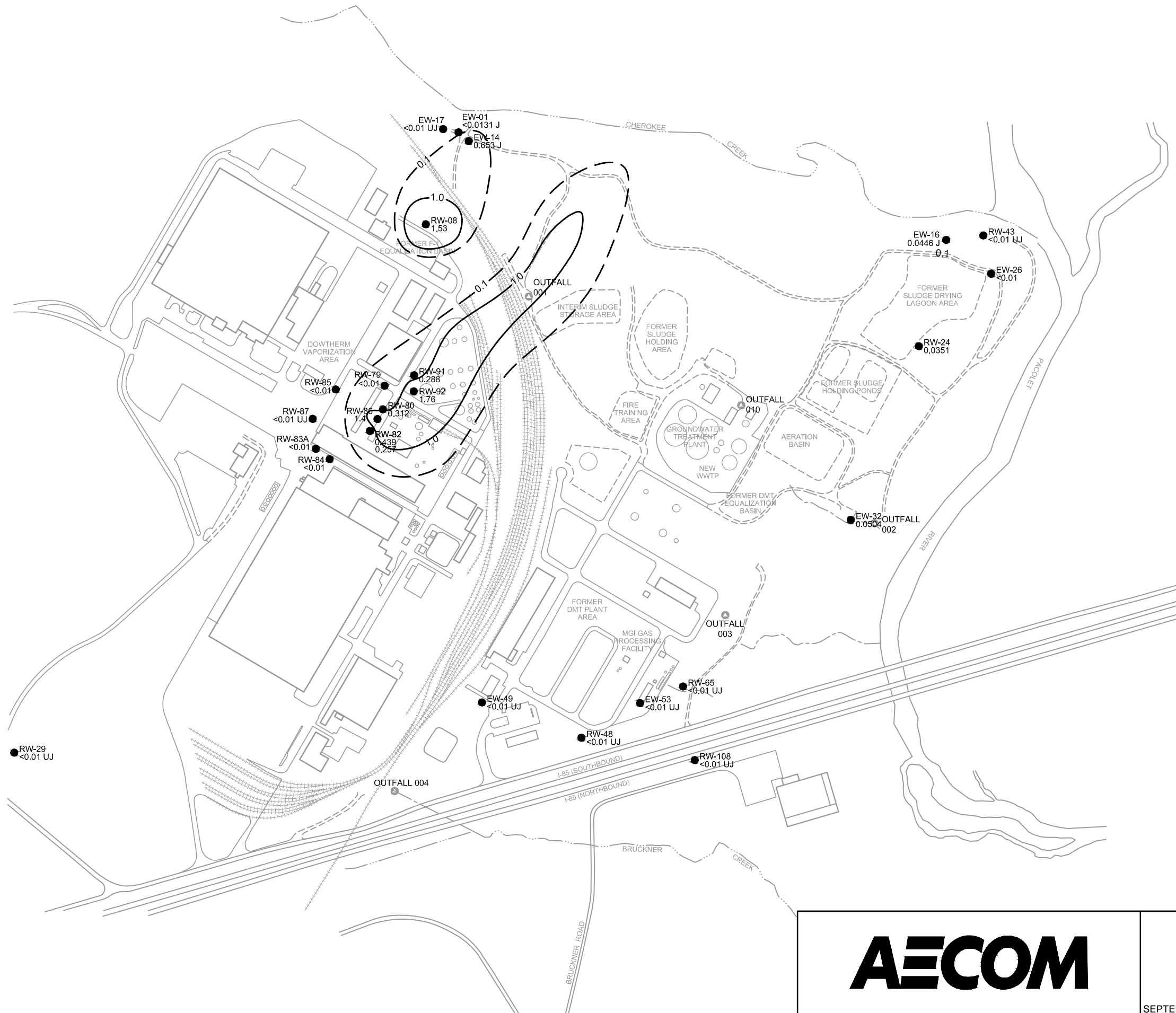
- MONITORING WELL LOCATION
- ☒ SURFACE WATER SAMPLE LOCATION
- 0.0401 DIPHENYL ETHER CONCENTRATION (mg/L)
- 0.1 — DIPHENYL ETHER ISOCONCENTRATION CONTOUR

NOTE: LOCATION OF MW-40R IS APPROXIMATE - SURVEY PENDING.



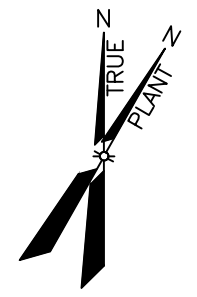
**FIGURE 13**  
**SAPROLITE DIPHENYL ETHER**  
**ISOCONCENTRATION MAP**  
**JUNE 2014**  
 AURIGA SPARTANBURG FACILITY  
 SPARTANBURG, SOUTH CAROLINA



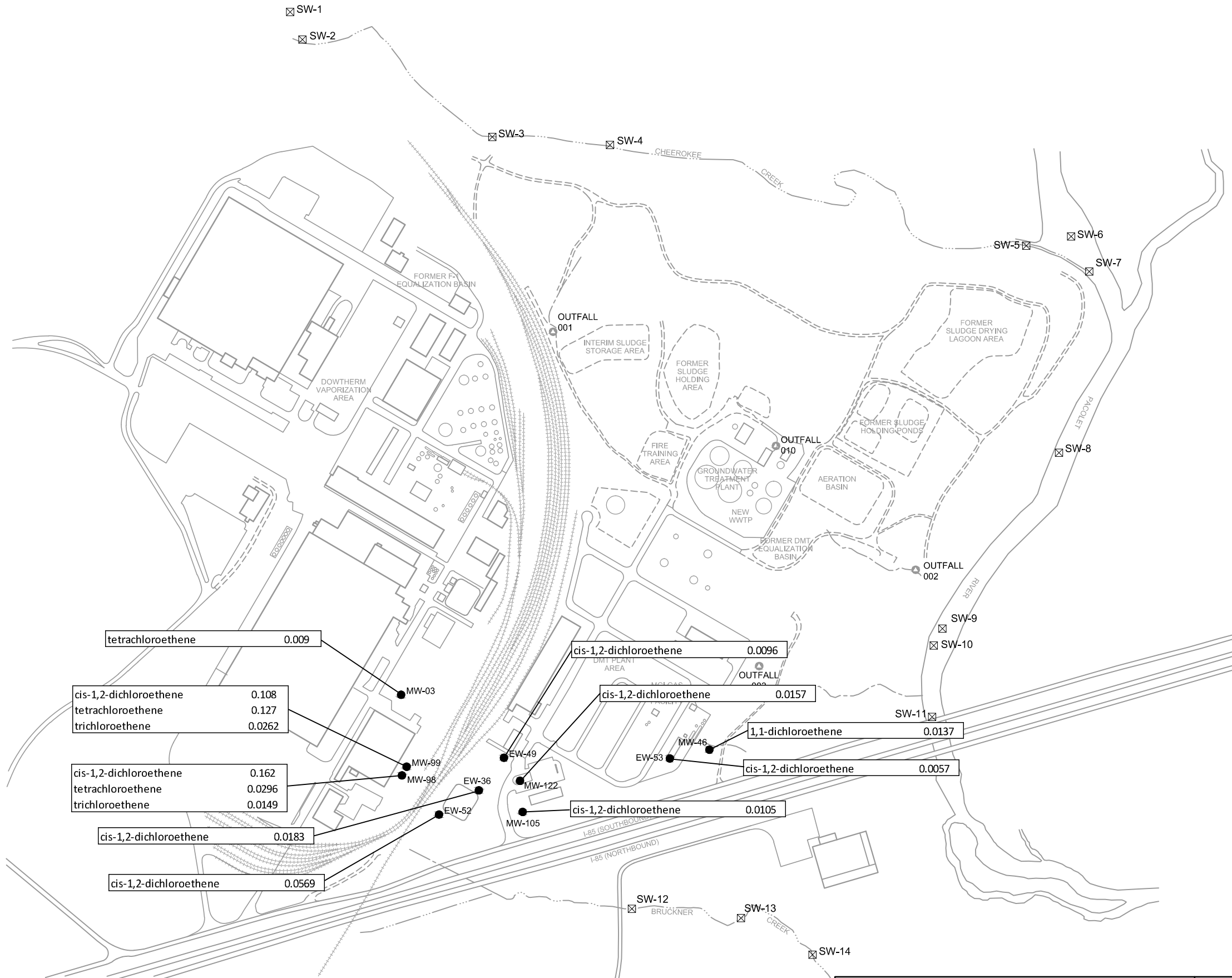


**LEGEND**

- MONITORING WELL LOCATION
- 0.0127 DIPHENYL ETHER CONCENTRATION (mg/L)
- 0.1 — DIPHENYL ETHER ISOCONCENTRATION CONTOUR



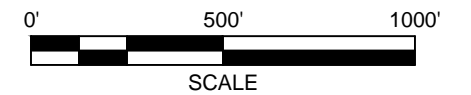
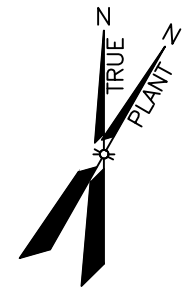
**FIGURE 14**  
**BEDROCK DIPHENYL ETHER**  
**ISOCONCENTRATION MAP**  
**JUNE 2014**  
 AURIGA SPARTANBURG FACILITY  
 SPARTANBURG, SOUTH CAROLINA



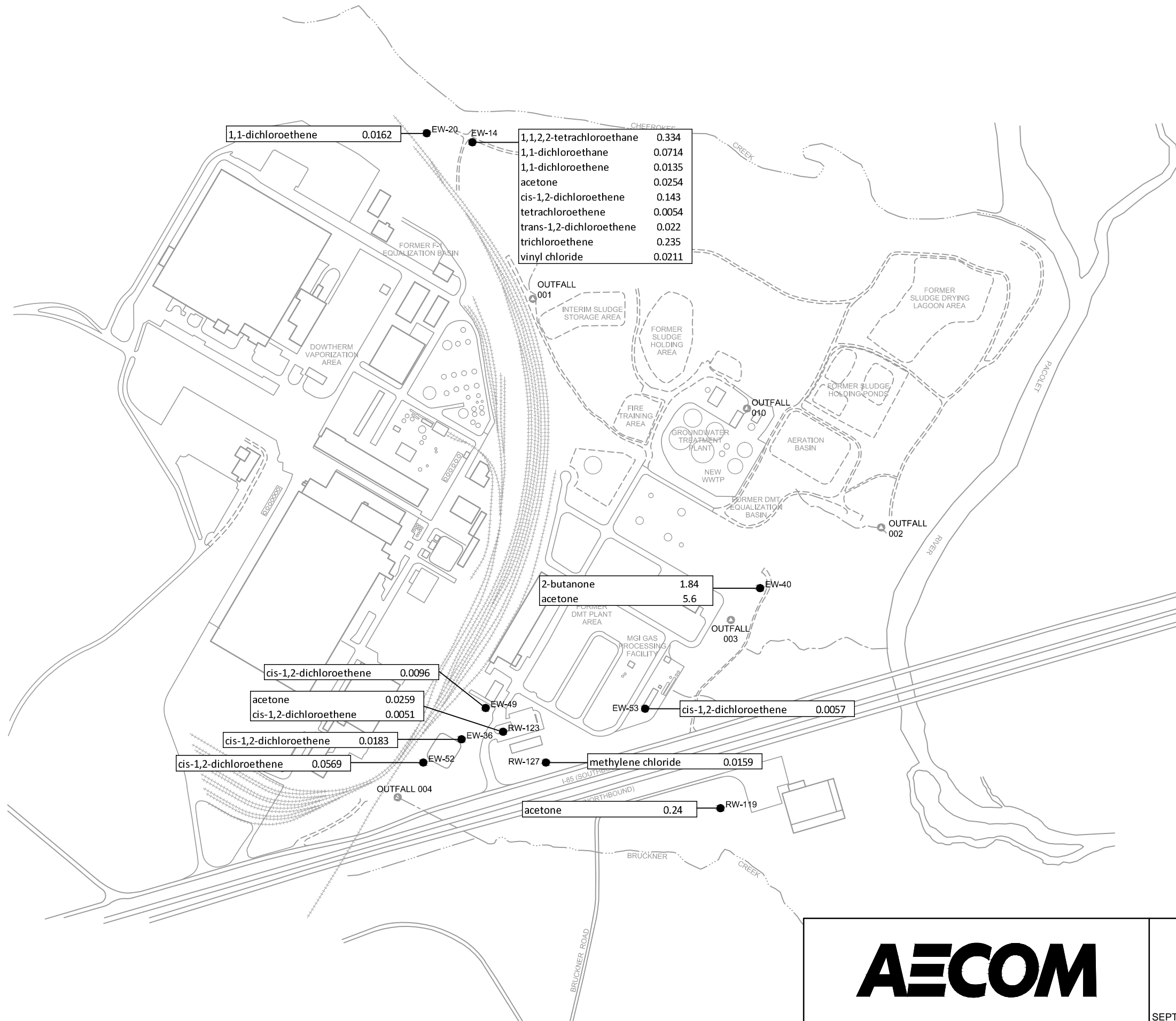
**LEGEND**

- MONITORING WELL LOCATION
- ☒ SURFACE WATER SAMPLE LOCATION

NOTE: CONCENTRATIONS IN MILLIGRAMS PER LITER (mg/L).



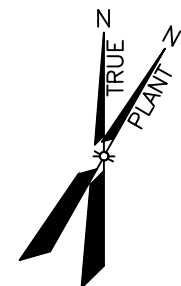
**FIGURE 15**  
OTHER ORGANIC DETECTIONS IN SAPROLITE  
JUNE 2014



**LEGEND**

● MONITORING WELL LOCATION

NOTE:  
CONCENTRATIONS IN MILLIGRAMS PER LITER (mg/L).



**FIGURE 16**  
OTHER ORGANIC DETECTIONS IN BEDROCK  
JUNE 2014

**Appendix A**  
**Laboratory Analytical Results**

July 01, 2014

Bryon Dahlgren  
AECOM  
10 Patewood Drive, Bldg 6  
Suite 500  
Greenville, SC 29615

RE: Project: CNA/Spartanburg  
Pace Project No.: 92205358

Dear Bryon Dahlgren:

Enclosed are the analytical results for sample(s) received by the laboratory on June 13, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin  
kevin.godwin@pacelabs.com  
Project Manager

Enclosures

cc: Aynsley Zollinger, AECOM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: CNA/Spartanburg

Pace Project No.: 92205358

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### Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
West Virginia Certification #: 357  
Virginia/VELAP Certification #: 460221

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### SAMPLE ANALYTE COUNT

Project: CNA/Spartanburg

Pace Project No.: 92205358

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92205358001	TRIP BLANK 04	EPA 8260	NU1	53	PASI-C
92205358002	EW-47	EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205358003	EW-38	EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205358004	MW-03	EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205358005	MW-57	EPA 8260B Mod.	DLK	3	PASI-C
92205358006	RW-56	EPA 8260B Mod.	DLK	3	PASI-C
92205358007	EW-07	EPA 8260B Mod.	DLK	3	PASI-C
92205358008	MW-26	EPA 8260B Mod.	DLK	3	PASI-C
92205358009	MW-40R	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205358010	EW-17	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205358011	RW-43	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C

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## ANALYTICAL RESULTS

Project: CNA/Spartanburg

Pace Project No.: 92205358

Sample: TRIP BLANK 04		Lab ID: 92205358001	Collected: 06/13/14 00:00	Received: 06/13/14 16:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		06/19/14 00:57	67-64-1	
Benzene	ND	ug/L	5.0	1		06/19/14 00:57	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/19/14 00:57	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/19/14 00:57	75-25-2	
Bromomethane	ND	ug/L	10.0	1		06/19/14 00:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/19/14 00:57	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/19/14 00:57	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/19/14 00:57	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/19/14 00:57	108-90-7	
Chloroethane	ND	ug/L	10.0	1		06/19/14 00:57	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/19/14 00:57	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/19/14 00:57	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		06/19/14 00:57	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/19/14 00:57	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/19/14 00:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/19/14 00:57	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/19/14 00:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/19/14 00:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/19/14 00:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/19/14 00:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/19/14 00:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/19/14 00:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/19/14 00:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/19/14 00:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/19/14 00:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/19/14 00:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/19/14 00:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/19/14 00:57	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/19/14 00:57	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/19/14 00:57	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/19/14 00:57	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/19/14 00:57	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/19/14 00:57	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/19/14 00:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/19/14 00:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/19/14 00:57	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/19/14 00:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/19/14 00:57	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/19/14 00:57	127-18-4	
Toluene	ND	ug/L	5.0	1		06/19/14 00:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/19/14 00:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/19/14 00:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/19/14 00:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/19/14 00:57	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/19/14 00:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/19/14 00:57	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/19/14 00:57	76-13-1	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CNA/Spartanburg

Pace Project No.: 92205358

<b>Sample: TRIP BLANK 04</b>		<b>Lab ID: 92205358001</b>	Collected: 06/13/14 00:00	Received: 06/13/14 16:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	10.0	1		06/19/14 00:57	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/19/14 00:57	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/19/14 00:57	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100 %		70-130	1		06/19/14 00:57	460-00-4	
1,2-Dichloroethane-d4 (S)	90 %		70-130	1		06/19/14 00:57	17060-07-0	
Toluene-d8 (S)	95 %		70-130	1		06/19/14 00:57	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/Spartanburg

Pace Project No.: 92205358

Sample: EW-47		Lab ID: 92205358002	Collected: 06/13/14 07:55	Received: 06/13/14 16:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		06/19/14 01:44	67-64-1	
Benzene	ND	ug/L	5.0	1		06/19/14 01:44	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/19/14 01:44	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/19/14 01:44	75-25-2	
Bromomethane	ND	ug/L	10.0	1		06/19/14 01:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/19/14 01:44	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/19/14 01:44	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/19/14 01:44	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/19/14 01:44	108-90-7	
Chloroethane	ND	ug/L	10.0	1		06/19/14 01:44	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/19/14 01:44	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/19/14 01:44	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		06/19/14 01:44	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/19/14 01:44	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/19/14 01:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/19/14 01:44	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/19/14 01:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/19/14 01:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/19/14 01:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/19/14 01:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/19/14 01:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/19/14 01:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/19/14 01:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/19/14 01:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/19/14 01:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/19/14 01:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/19/14 01:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/19/14 01:44	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/19/14 01:44	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/19/14 01:44	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/19/14 01:44	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/19/14 01:44	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/19/14 01:44	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/19/14 01:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/19/14 01:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/19/14 01:44	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/19/14 01:44	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/19/14 01:44	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/19/14 01:44	127-18-4	
Toluene	ND	ug/L	5.0	1		06/19/14 01:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/19/14 01:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/19/14 01:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/19/14 01:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/19/14 01:44	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/19/14 01:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/19/14 01:44	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/19/14 01:44	76-13-1	

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## ANALYTICAL RESULTS

Project: CNA/Spartanburg

Pace Project No.: 92205358

Sample: <b>EW-47</b>		Lab ID: <b>92205358002</b>	Collected: 06/13/14 07:55	Received: 06/13/14 16:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	10.0	1		06/19/14 01:44	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/19/14 01:44	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/19/14 01:44	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99 %		70-130	1		06/19/14 01:44	460-00-4	
1,2-Dichloroethane-d4 (S)	89 %		70-130	1		06/19/14 01:44	17060-07-0	
Toluene-d8 (S)	95 %		70-130	1		06/19/14 01:44	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>24.2</b>	ug/L	2.0	1		06/22/14 19:23	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	110 %		50-150	1		06/22/14 19:23	17060-07-0	
Toluene-d8 (S)	95 %		50-150	1		06/22/14 19:23	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/Spartanburg

Pace Project No.: 92205358

Sample: EW-38		Lab ID: 92205358003	Collected: 06/13/14 08:50	Received: 06/13/14 16:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		06/19/14 01:59	67-64-1	
Benzene	ND	ug/L	5.0	1		06/19/14 01:59	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/19/14 01:59	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/19/14 01:59	75-25-2	
Bromomethane	ND	ug/L	10.0	1		06/19/14 01:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/19/14 01:59	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/19/14 01:59	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/19/14 01:59	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/19/14 01:59	108-90-7	
Chloroethane	ND	ug/L	10.0	1		06/19/14 01:59	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/19/14 01:59	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/19/14 01:59	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		06/19/14 01:59	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/19/14 01:59	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/19/14 01:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/19/14 01:59	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/19/14 01:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/19/14 01:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/19/14 01:59	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/19/14 01:59	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/19/14 01:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/19/14 01:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/19/14 01:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/19/14 01:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/19/14 01:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/19/14 01:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/19/14 01:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/19/14 01:59	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/19/14 01:59	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/19/14 01:59	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/19/14 01:59	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/19/14 01:59	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/19/14 01:59	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/19/14 01:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/19/14 01:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/19/14 01:59	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/19/14 01:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/19/14 01:59	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/19/14 01:59	127-18-4	
Toluene	ND	ug/L	5.0	1		06/19/14 01:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/19/14 01:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/19/14 01:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/19/14 01:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/19/14 01:59	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/19/14 01:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/19/14 01:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/19/14 01:59	76-13-1	

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## ANALYTICAL RESULTS

Project: CNA/Spartanburg

Pace Project No.: 92205358

<b>Sample: EW-38</b>		<b>Lab ID: 92205358003</b>	Collected: 06/13/14 08:50	Received: 06/13/14 16:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Vinyl acetate	ND ug/L		10.0	1		06/19/14 01:59	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/19/14 01:59	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/19/14 01:59	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99 %		70-130	1		06/19/14 01:59	460-00-4	
1,2-Dichloroethane-d4 (S)	90 %		70-130	1		06/19/14 01:59	17060-07-0	
Toluene-d8 (S)	95 %		70-130	1		06/19/14 01:59	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>39.7</b> ug/L		2.0	1		06/22/14 19:44	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	111 %		50-150	1		06/22/14 19:44	17060-07-0	
Toluene-d8 (S)	95 %		50-150	1		06/22/14 19:44	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/Spartanburg

Pace Project No.: 92205358

Sample: MW-03	Lab ID: 92205358004	Collected: 06/13/14 10:40	Received: 06/13/14 16:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/19/14 02:15	67-64-1	
Benzene	ND ug/L		5.0	1		06/19/14 02:15	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/19/14 02:15	75-27-4	
Bromoform	ND ug/L		5.0	1		06/19/14 02:15	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/19/14 02:15	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/19/14 02:15	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/19/14 02:15	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/19/14 02:15	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/19/14 02:15	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/19/14 02:15	75-00-3	
Chloroform	ND ug/L		5.0	1		06/19/14 02:15	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/19/14 02:15	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/19/14 02:15	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/19/14 02:15	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/19/14 02:15	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/19/14 02:15	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/19/14 02:15	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/19/14 02:15	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/19/14 02:15	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/19/14 02:15	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/19/14 02:15	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/19/14 02:15	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/19/14 02:15	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/19/14 02:15	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/19/14 02:15	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/19/14 02:15	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/19/14 02:15	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/19/14 02:15	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/19/14 02:15	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/19/14 02:15	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/19/14 02:15	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/19/14 02:15	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/19/14 02:15	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/19/14 02:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/19/14 02:15	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/19/14 02:15	1634-04-4	
Styrene	ND ug/L		5.0	1		06/19/14 02:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/19/14 02:15	79-34-5	
Tetrachloroethene	9.0 ug/L		5.0	1		06/19/14 02:15	127-18-4	
Toluene	ND ug/L		5.0	1		06/19/14 02:15	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/19/14 02:15	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/19/14 02:15	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/19/14 02:15	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/19/14 02:15	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/19/14 02:15	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/19/14 02:15	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/19/14 02:15	76-13-1	

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## ANALYTICAL RESULTS

Project: CNA/Spartanburg

Pace Project No.: 92205358

Sample: MW-03		Lab ID: 92205358004	Collected: 06/13/14 10:40	Received: 06/13/14 16:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	10.0	1		06/19/14 02:15	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/19/14 02:15	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/19/14 02:15	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99 %		70-130	1		06/19/14 02:15	460-00-4	
1,2-Dichloroethane-d4 (S)	90 %		70-130	1		06/19/14 02:15	17060-07-0	
Toluene-d8 (S)	95 %		70-130	1		06/19/14 02:15	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	4.6	ug/L	2.0	1		06/22/14 20:05	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	110 %		50-150	1		06/22/14 20:05	17060-07-0	
Toluene-d8 (S)	95 %		50-150	1		06/22/14 20:05	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/Spartanburg

Pace Project No.: 92205358

Sample: MW-57		Lab ID: 92205358005	Collected: 06/13/14 08:05	Received: 06/13/14 16:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	12.8	ug/L	2.0	1		06/22/14 20:26	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	50-150	1		06/22/14 20:26	17060-07-0	
Toluene-d8 (S)	94	%	50-150	1		06/22/14 20:26	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/Spartanburg

Pace Project No.: 92205358

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: RW-56</b>								
<b>Lab ID: 92205358006</b>								
Collected: 06/13/14 09:20								
Received: 06/13/14 16:12								
Matrix: Water								
<b>8260 MSV SIM</b>								
Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	81.8	ug/L	2.0	1		06/22/14 20:48	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	112	%	50-150	1		06/22/14 20:48	17060-07-0	
Toluene-d8 (S)	95	%	50-150	1		06/22/14 20:48	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/Spartanburg

Pace Project No.: 92205358

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: EW-07</b>								
<b>Lab ID: 92205358007</b>								
Collected: 06/13/14 09:40								
Received: 06/13/14 16:12								
Matrix: Water								
<b>8260 MSV SIM</b>								
Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	114 ug/L		5.0	2.5		06/23/14 13:01	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	104 %		50-150	2.5		06/23/14 13:01	17060-07-0	
Toluene-d8 (S)	92 %		50-150	2.5		06/23/14 13:01	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/Spartanburg

Pace Project No.: 92205358

Sample: MW-26		Lab ID: 92205358008	Collected: 06/13/14 10:00	Received: 06/13/14 16:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>102</b>	ug/L	5.0	2.5		06/23/14 13:22	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	104 %		50-150	1		06/22/14 21:30	17060-07-0	
Toluene-d8 (S)	95 %		50-150	1		06/22/14 21:30	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/Spartanburg

Pace Project No.: 92205358

<b>Sample: MW-40R</b>		<b>Lab ID: 92205358009</b>	Collected: 06/13/14 09:10	Received: 06/13/14 16:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	<b>553</b> ug/L		500	50	06/23/14 16:20	06/27/14 12:31	92-52-4	
Diphenyl ether (Phenyl ether)	<b>1710</b> ug/L		500	50	06/23/14 16:20	06/27/14 12:31	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	61 %		21-110	1	06/23/14 16:20	06/24/14 20:45	4165-60-0	H5
2-Fluorobiphenyl (S)	76 %		27-110	1	06/23/14 16:20	06/24/14 20:45	321-60-8	
Terphenyl-d14 (S)	78 %		31-107	1	06/23/14 16:20	06/24/14 20:45	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>1320</b> ug/L		50.0	25		06/23/14 13:43	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	114 %		50-150	5		06/22/14 21:51	17060-07-0	
Toluene-d8 (S)	94 %		50-150	5		06/22/14 21:51	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/Spartanburg

Pace Project No.: 92205358

Sample: <b>EW-17</b>		Lab ID: <b>92205358010</b>	Collected: 06/13/14 10:05	Received: 06/13/14 16:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/23/14 16:20	06/24/14 21:16	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/23/14 16:20	06/24/14 21:16	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	50 %		21-110	1	06/23/14 16:20	06/24/14 21:16	4165-60-0	H5
2-Fluorobiphenyl (S)	60 %		27-110	1	06/23/14 16:20	06/24/14 21:16	321-60-8	
Terphenyl-d14 (S)	77 %		31-107	1	06/23/14 16:20	06/24/14 21:16	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>31.0</b> ug/L		2.0	1		06/22/14 22:12	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	107 %		50-150	1		06/22/14 22:12	17060-07-0	
Toluene-d8 (S)	94 %		50-150	1		06/22/14 22:12	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/Spartanburg

Pace Project No.: 92205358

<b>Sample: RW-43</b>		<b>Lab ID: 92205358011</b>	Collected: 06/13/14 11:45	Received: 06/13/14 16:12	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/23/14 16:20	06/24/14 21:47	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/23/14 16:20	06/24/14 21:47	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	28 %		21-110	1	06/23/14 16:20	06/24/14 21:47	4165-60-0	H5
2-Fluorobiphenyl (S)	35 %		27-110	1	06/23/14 16:20	06/24/14 21:47	321-60-8	
Terphenyl-d14 (S)	55 %		31-107	1	06/23/14 16:20	06/24/14 21:47	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>1260</b> ug/L		50.0	25		06/23/14 14:05	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	108 %		50-150	1		06/22/14 22:33	17060-07-0	
Toluene-d8 (S)	94 %		50-150	1		06/22/14 22:33	2037-26-5	

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### QUALITY CONTROL DATA

Project: CNA/Spartanburg

Pace Project No.: 92205358

QC Batch: MSV/27269

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV SC

Associated Lab Samples: 92205358001, 92205358002, 92205358003, 92205358004

METHOD BLANK: 1223980

Matrix: Water

Associated Lab Samples: 92205358001, 92205358002, 92205358003, 92205358004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/19/14 00:10	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/19/14 00:10	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/19/14 00:10	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	06/19/14 00:10	
1,1-Dichloroethane	ug/L	ND	5.0	06/19/14 00:10	
1,1-Dichloroethene	ug/L	ND	5.0	06/19/14 00:10	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/19/14 00:10	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/19/14 00:10	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	06/19/14 00:10	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/19/14 00:10	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/19/14 00:10	
1,2-Dichloroethane	ug/L	ND	5.0	06/19/14 00:10	
1,2-Dichloropropane	ug/L	ND	5.0	06/19/14 00:10	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/19/14 00:10	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/19/14 00:10	
2-Butanone (MEK)	ug/L	ND	10.0	06/19/14 00:10	
2-Hexanone	ug/L	ND	10.0	06/19/14 00:10	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/19/14 00:10	
Acetone	ug/L	ND	25.0	06/19/14 00:10	
Benzene	ug/L	ND	5.0	06/19/14 00:10	
Bromodichloromethane	ug/L	ND	5.0	06/19/14 00:10	
Bromoform	ug/L	ND	5.0	06/19/14 00:10	
Bromomethane	ug/L	ND	10.0	06/19/14 00:10	
Carbon disulfide	ug/L	ND	10.0	06/19/14 00:10	
Carbon tetrachloride	ug/L	ND	5.0	06/19/14 00:10	
Chlorobenzene	ug/L	ND	5.0	06/19/14 00:10	
Chloroethane	ug/L	ND	10.0	06/19/14 00:10	
Chloroform	ug/L	ND	5.0	06/19/14 00:10	
Chloromethane	ug/L	ND	5.0	06/19/14 00:10	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/19/14 00:10	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/19/14 00:10	
Cyclohexane	ug/L	ND	5.0	06/19/14 00:10	
Dibromochloromethane	ug/L	ND	5.0	06/19/14 00:10	
Dichlorodifluoromethane	ug/L	ND	5.0	06/19/14 00:10	
Ethylbenzene	ug/L	ND	5.0	06/19/14 00:10	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/19/14 00:10	
Methyl acetate	ug/L	ND	10.0	06/19/14 00:10	
Methyl-tert-butyl ether	ug/L	ND	5.0	06/19/14 00:10	
Methylcyclohexane	ug/L	ND	10.0	06/19/14 00:10	
Methylene Chloride	ug/L	ND	5.0	06/19/14 00:10	
Styrene	ug/L	ND	5.0	06/19/14 00:10	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CNA/Spartanburg

Pace Project No.: 92205358

METHOD BLANK: 1223980

Matrix: Water

Associated Lab Samples: 92205358001, 92205358002, 92205358003, 92205358004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tetrachloroethene	ug/L	ND	5.0	06/19/14 00:10	
Toluene	ug/L	ND	5.0	06/19/14 00:10	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/19/14 00:10	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/19/14 00:10	
Trichloroethene	ug/L	ND	5.0	06/19/14 00:10	
Trichlorofluoromethane	ug/L	ND	10.0	06/19/14 00:10	
Vinyl acetate	ug/L	ND	10.0	06/19/14 00:10	
Vinyl chloride	ug/L	ND	5.0	06/19/14 00:10	
Xylene (Total)	ug/L	ND	10.0	06/19/14 00:10	
1,2-Dichloroethane-d4 (S)	%	91	70-130	06/19/14 00:10	
4-Bromofluorobenzene (S)	%	100	70-130	06/19/14 00:10	
Toluene-d8 (S)	%	95	70-130	06/19/14 00:10	

LABORATORY CONTROL SAMPLE: 1223981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	39.4	79	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	70-130	
1,1,2-Trichloroethane	ug/L	50	43.8	88	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	39.8	80	70-130	
1,1-Dichloroethane	ug/L	50	37.2	74	70-130	
1,1-Dichloroethene	ug/L	50	42.6	85	70-130	
1,2,3-Trichlorobenzene	ug/L	50	54.4	109	70-130	
1,2,4-Trichlorobenzene	ug/L	50	53.2	106	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	56.7	113	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	49.8	100	70-130	
1,2-Dichlorobenzene	ug/L	50	54.0	108	70-130	
1,2-Dichloroethane	ug/L	50	38.6	77	70-130	
1,2-Dichloropropane	ug/L	50	41.6	83	70-130	
1,3-Dichlorobenzene	ug/L	50	52.8	106	70-130	
1,4-Dichlorobenzene	ug/L	50	53.2	106	70-130	
2-Butanone (MEK)	ug/L	100	84.1	84	70-130	
2-Hexanone	ug/L	100	92.6	93	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	86.1	86	70-130	
Acetone	ug/L	100	79.7	80	70-130	
Benzene	ug/L	50	43.5	87	70-130	
Bromodichloromethane	ug/L	50	42.8	86	70-130	
Bromoform	ug/L	50	52.6	105	70-130	
Bromomethane	ug/L	50	34.7	69	70-130 L0	
Carbon disulfide	ug/L	50	38.5	77	70-130	
Carbon tetrachloride	ug/L	50	45.9	92	70-130	
Chlorobenzene	ug/L	50	47.3	95	70-130	
Chloroethane	ug/L	50	40.7	81	70-130	
Chloroform	ug/L	50	40.4	81	70-130	

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### QUALITY CONTROL DATA

Project: CNA/Spartanburg

Pace Project No.: 92205358

LABORATORY CONTROL SAMPLE: 1223981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	50	43.1	86	70-130	
cis-1,2-Dichloroethene	ug/L	50	39.1	78	70-130	
cis-1,3-Dichloropropene	ug/L	50	41.1	82	70-130	
Cyclohexane	ug/L	50	44.8	90	70-130	
Dibromochloromethane	ug/L	50	48.5	97	70-130	
Dichlorodifluoromethane	ug/L	50	51.1	102	70-130	
Ethylbenzene	ug/L	50	47.3	95	70-130	
Isopropylbenzene (Cumene)	ug/L	50	50.0	100	70-130	
Methyl acetate	ug/L	50	39.0	78	70-130	
Methyl-tert-butyl ether	ug/L	50	41.6	83	70-130	
Methylcyclohexane	ug/L	50	46.9	94	70-130	
Methylene Chloride	ug/L	50	37.9	76	70-130	
Styrene	ug/L	50	49.8	100	70-130	
Tetrachloroethene	ug/L	50	50.4	101	70-130	
Toluene	ug/L	50	41.9	84	70-130	
trans-1,2-Dichloroethene	ug/L	50	40.2	80	70-130	
trans-1,3-Dichloropropene	ug/L	50	39.5	79	70-130	
Trichloroethene	ug/L	50	43.0	86	70-130	
Trichlorofluoromethane	ug/L	50	45.3	91	70-130	
Vinyl acetate	ug/L	100	79.5	80	70-130	
Vinyl chloride	ug/L	50	47.6	95	70-130	
Xylene (Total)	ug/L	150	144	96	70-130	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1224951 1224952

Parameter	92205358004		MS	MSD	MS		MSD		% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
1,1,1-Trichloroethane	ug/L	ND	50	50	57.6	58.0	115	116	70-130	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	62.9	60.1	124	118	70-130	5	
1,1,2-Trichloroethane	ug/L	ND	50	50	57.8	57.5	116	115	70-130	1	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	62.7	67.1	125	134	70-130	7	M0
1,1-Dichloroethane	ug/L	ND	50	50	59.8	59.5	120	119	70-130	0	
1,1-Dichloroethene	ug/L	ND	50	50	51.1	48.7	102	97	70-130	5	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	63.0	62.7	126	125	70-130	1	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	61.4	60.4	123	121	70-130	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	52.0	51.6	104	103	70-130	1	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	60.0	59.0	120	118	70-130	2	
1,2-Dichlorobenzene	ug/L	ND	50	50	61.7	60.5	123	121	70-130	2	
1,2-Dichloroethane	ug/L	ND	50	50	54.4	55.7	109	111	70-130	2	
1,2-Dichloropropane	ug/L	ND	50	50	63.7	63.4	127	127	70-130	1	
1,3-Dichlorobenzene	ug/L	ND	50	50	59.5	58.5	119	117	70-130	2	
1,4-Dichlorobenzene	ug/L	ND	50	50	57.8	57.4	116	115	70-130	1	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CNA/Spartanburg

Pace Project No.: 92205358

Parameter	92205358004		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec						
2-Butanone (MEK)	ug/L	ND	100	100	118	116	118	116	70-130	1				
2-Hexanone	ug/L	ND	100	100	125	122	125	122	70-130	2				
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	124	123	124	123	70-130	1				
Acetone	ug/L	ND	100	100	107	109	105	107	70-130	2				
Benzene	ug/L	ND	50	50	64.6	64.1	129	128	70-130	1				
Bromodichloromethane	ug/L	ND	50	50	57.9	58.7	116	117	70-130	1				
Bromoform	ug/L	ND	50	50	50.2	50.4	100	101	70-130	0				
Bromomethane	ug/L	ND	50	50	48.9	52.4	98	105	70-130	7				
Carbon disulfide	ug/L	ND	50	50	55.6	57.8	111	116	70-130	4				
Carbon tetrachloride	ug/L	ND	50	50	58.4	60.6	117	121	70-130	4				
Chlorobenzene	ug/L	ND	50	50	57.1	56.2	114	112	70-130	2				
Chloroethane	ug/L	ND	50	50	43.9	48.1	88	96	70-130	9				
Chloroform	ug/L	ND	50	50	59.6	58.6	119	117	70-130	2				
Chloromethane	ug/L	ND	50	50	67.2	71.4	134	143	70-130	6 M0				
cis-1,2-Dichloroethene	ug/L	ND	50	50	62.7	60.1	125	120	70-130	4				
cis-1,3-Dichloropropene	ug/L	ND	50	50	53.0	53.3	106	107	70-130	1				
Cyclohexane	ug/L	ND	50	50	94.4	87.8	189	176	70-130	7 M0				
Dibromochloromethane	ug/L	ND	50	50	49.6	50.3	99	101	70-130	1				
Dichlorodifluoromethane	ug/L	ND	50	50	81.3	83.7	163	167	70-130	3 M0				
Ethylbenzene	ug/L	ND	50	50	57.4	56.5	115	113	70-130	2				
Isopropylbenzene (Cumene)	ug/L	ND	50	50	61.4	60.3	123	121	70-130	2				
Methyl acetate	ug/L	ND	50	50	67.2	62.8	134	126	70-130	7 M0				
Methyl-tert-butyl ether	ug/L	ND	50	50	60.5	61.2	121	122	70-130	1				
Methylcyclohexane	ug/L	ND	50	50	84.6	82.7	169	165	70-130	2 M0				
Methylene Chloride	ug/L	ND	50	50	57.6	58.5	115	117	70-130	1				
Styrene	ug/L	ND	50	50	63.3	62.5	127	125	70-130	1				
Tetrachloroethene	ug/L	9.0	50	50	69.7	68.6	121	119	70-130	2				
Toluene	ug/L	ND	50	50	57.1	56.1	114	112	70-130	2				
trans-1,2-Dichloroethene	ug/L	ND	50	50	64.9	65.6	130	131	70-130	1 M0				
trans-1,3-Dichloropropene	ug/L	ND	50	50	49.8	50.6	100	101	70-130	2				
Trichloroethene	ug/L	ND	50	50	60.3	59.5	120	118	70-130	1				
Trichlorofluoromethane	ug/L	ND	50	50	53.3	56.4	107	113	70-130	6				
Vinyl acetate	ug/L	ND	100	100	126	126	126	126	70-130	1				
Vinyl chloride	ug/L	ND	50	50	64.8	67.3	130	135	70-130	4 M0				
1,2-Dichloroethane-d4 (S)	%						103	101	70-130					
4-Bromofluorobenzene (S)	%						97	98	70-130					
Toluene-d8 (S)	%						99	100	70-130					

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CNA/Spartanburg

Pace Project No.: 92205358

QC Batch: MSV/27307

Analysis Method: EPA 8260B Mod.

QC Batch Method: EPA 8260B Mod.

Analysis Description: 8260 MSV SIM

Associated Lab Samples: 92205358002, 92205358003, 92205358004, 92205358005, 92205358006, 92205358007, 92205358008

METHOD BLANK: 1226941

Matrix: Water

Associated Lab Samples: 92205358002, 92205358003, 92205358004, 92205358005, 92205358006, 92205358007, 92205358008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/22/14 13:43	
1,2-Dichloroethane-d4 (S)	%	93	50-150	06/22/14 13:43	
Toluene-d8 (S)	%	97	50-150	06/22/14 13:43	

LABORATORY CONTROL SAMPLE: 1226942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	22.3	111	71-125	
1,2-Dichloroethane-d4 (S)	%			102	50-150	
Toluene-d8 (S)	%			97	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1227115 1227116

Parameter	Units	92205236022		MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	20	21.3	24.3	107	121	50-150	13	
1,2-Dichloroethane-d4 (S)	%							102	97	50-150		
Toluene-d8 (S)	%							93	93	50-150		

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### QUALITY CONTROL DATA

Project: CNA/Spartanburg

Pace Project No.: 92205358

QC Batch: MSV/27308 Analysis Method: EPA 8260B Mod.

QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM

Associated Lab Samples: 92205358009, 92205358010, 92205358011

METHOD BLANK: 1226943 Matrix: Water

Associated Lab Samples: 92205358009, 92205358010, 92205358011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/22/14 13:22	
1,2-Dichloroethane-d4 (S)	%	96	50-150	06/22/14 13:22	
Toluene-d8 (S)	%	98	50-150	06/22/14 13:22	

LABORATORY CONTROL SAMPLE: 1226944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	21.5	107	71-125	
1,2-Dichloroethane-d4 (S)	%			104	50-150	
Toluene-d8 (S)	%			98	50-150	

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### QUALITY CONTROL DATA

Project: CNA/Spartanburg

Pace Project No.: 92205358

QC Batch: OEXT/28455 Analysis Method: EPA 8270  
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV  
 Associated Lab Samples: 92205358009, 92205358010, 92205358011

METHOD BLANK: 1227341 Matrix: Water

Associated Lab Samples: 92205358009, 92205358010, 92205358011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Biphenyl (Diphenyl)	ug/L	ND	10.0	06/25/14 12:31	
Diphenyl ether (Phenyl ether)	ug/L	ND	10.0	06/25/14 12:31	
2-Fluorobiphenyl (S)	%	81	27-110	06/25/14 12:31	
Nitrobenzene-d5 (S)	%	68	21-110	06/25/14 12:31	
Terphenyl-d14 (S)	%	94	31-107	06/25/14 12:31	

LABORATORY CONTROL SAMPLE & LCSD: 1227342

1227343

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Biphenyl (Diphenyl)	ug/L	50	43.7	38.1	87	76	38-120	14	30	
Diphenyl ether (Phenyl ether)	ug/L	50	41.2	35.8	82	72	51-120	14	30	
2-Fluorobiphenyl (S)	%				85	72	27-110			
Nitrobenzene-d5 (S)	%				61	53	21-110			
Terphenyl-d14 (S)	%				88	85	31-107			

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## QUALIFIERS

Project: CNA/Spartanburg

Pace Project No.: 92205358

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

H5 Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CNA/Spartanburg

Pace Project No.: 92205358

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92205358009	MW-40R	EPA 3510	OEXT/28455	EPA 8270	MSSV/9293
92205358010	EW-17	EPA 3510	OEXT/28455	EPA 8270	MSSV/9293
92205358011	RW-43	EPA 3510	OEXT/28455	EPA 8270	MSSV/9293
92205358001	TRIP BLANK 04	EPA 8260	MSV/27269		
92205358002	EW-47	EPA 8260	MSV/27269		
92205358003	EW-38	EPA 8260	MSV/27269		
92205358004	MW-03	EPA 8260	MSV/27269		
92205358002	EW-47	EPA 8260B Mod.	MSV/27307		
92205358003	EW-38	EPA 8260B Mod.	MSV/27307		
92205358004	MW-03	EPA 8260B Mod.	MSV/27307		
92205358005	MW-57	EPA 8260B Mod.	MSV/27307		
92205358006	RW-56	EPA 8260B Mod.	MSV/27307		
92205358007	EW-07	EPA 8260B Mod.	MSV/27307		
92205358008	MW-26	EPA 8260B Mod.	MSV/27307		
92205358009	MW-40R	EPA 8260B Mod.	MSV/27308		
92205358010	EW-17	EPA 8260B Mod.	MSV/27308		
92205358011	RW-43	EPA 8260B Mod.	MSV/27308		

### REPORT OF LABORATORY ANALYSIS

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Document Name: Sample Condition Upon Receipt (SCUR)

Document Revised: June 10, 2014 Page 1 of 2

Document No.: F-ASV-CS-003-rev.14

Issuing Authorities: Pace Asheville Quality Office

Client Name: Aecom

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other

Custody Seal on Cooler/Box Present: [ ] yes [x] no Seals intact: [ ] yes [ ] no

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [ ] None [ ] Other

Thermometer Used: IR Gun #3 -130265963 Type of Ice: Wet Blue None [x] Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 2.6 C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: RDB 6/13/14

Comments:

Table with 16 rows of checklist items including Chain of Custody Present, Chain of Custody Filled Out, Chain of Custody Relinquished, Sampler Name & Signature on COC, Samples Arrived within Hold Time, Short Hold Time Analysis (<72hr), Rush Turn Around Time Requested, Sufficient Volume, Correct Containers Used, Containers Intact, Filtered volume received for Dissolved tests, Sample Labels match COC, All containers needing preservation have been checked, All containers needing preservation are found to be in compliance with EPA recommendation, Samples checked for dechlorination, Headspace in VOA Vials (>6mm), Trip Blank Present, Trip Blank Custody Seals Present, Pace Trip Blank Lot # (if purchased).

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

SCURF Review: [Signature] Date: 6/13/14
SRF Review: [Signature] Date: 6/16/14

Place label here

92705358 OR

Handwrite project number (if no label available)

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



## CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1  
**1800533**

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: <b>Acem</b>	Report To: <b>Bryon Dalkorin</b>	Attention: <b>Bryon Dalkorin</b>	Company Name: <b>Bryon Dalkorin</b>	Address: <b>Stacy</b>	
Address: <b>1500 Reardon St. NE</b>	Copy To: <b>Bryon Dalkorin</b>	Page Quote Reference: <b>Stacy</b>			
City: <b>SESSO Atlanta GA 30361</b>	Purchase Order No.:	Price Project Manager:			
Phone: <b>404-965-9687</b>	Project Name: <b>CVAA/SPACTINBUC</b>	Price Profile #:			
Fax: <b>404-965-9687</b>	Project Number:				
Requested Due Date/AT:					
REGULATORY AGENCY		Requested Analysis Filtered (Y/N)			
<input type="checkbox"/> NPDES	<input type="checkbox"/> GROUND WATER	<input type="checkbox"/> DRINKING WATER			
<input type="checkbox"/> UST	<input type="checkbox"/> RCRA	<input type="checkbox"/> OTHER			
Site Location:	STATE: <u>SC</u>				

ITEM #	Section D Required Client Information:  SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE  Drinking Water DW Waste Water WWT Water W Product P Soil/Solid SL Oil OI Wipe WI Air AR Tissue TS Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-CRAB C-COMP)	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives									Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.  0902 153558									
					COMPOSITE S/ART	COMPOSITE ENDORSEAL							H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Y	N					Y	N	Y	N	Y	N	Y	N	Y
1	RIP Blank 04		W 6	G	-	-	6/13/14	-	-	2	2																							
2	MW-47		W 5	G	-	-	6/31/14	0755	-	6	3																							
3	MW-51		W 5	G	-	-	6/31/14	0805	-	6	3																							
4	EW-38		W 5	G	-	-	6/31/14	0850	-	6	3																							
5	RW-56		W 5	G	-	-	6/31/14	0900	-	5	2																							
6	MW-40R		W 5	G	-	-	6/31/14	0910	-	5	2																							
7	EW-07		W 5	G	-	-	6/13/14	0940	-	5	2																							
8	MW-26		W 5	G	-	-	6/13/14	1000	-	5	2																							
9	EW-17		W 5	G	-	-	6/13/14	1005	-	6	3																							
10	MW-03		W 5	G	-	-	6/13/14	1040	-	6	3																							
11	RW-43		W 5	G	-	-	6/13/14	1145	-	5	2																							
12																																		
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE			TIME			ACCEPTED BY / AFFILIATION			DATE			TIME			SAMPLE CONDITIONS													
			EEM			6/13/14			0830			Mentel D			6/13/14			1400																
			Cory			6/13/14			1112			V			6/13/14			1652			Dk 9													

ORIGINAL

SAMPLER NAME AND SIGNATURE		DATE	
PRINT Name of SAMPLER:	Signature	DATE	TIME
SIGNATURE of SAMPLER:	Cory Hill	6/13/14	
DATE Signed (MM/DD/YY):		6/13/14	

Important Note: By signing this form, you are accepting Pace's NEI 30 day payment terms and agreeing to the charges of 1.5% per month for any amount not paid within 30 days.

FALL Q-0207REV.07 15-Mar-2007

July 02, 2014

Bryon Dahlgren  
AECOM  
10 Patewood Drive, Bldg 6  
Suite 500  
Greenville, SC 29615

RE: Project: CNA - SPARTANBURG  
Pace Project No.: 92205921

Dear Bryon Dahlgren:

Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin  
kevin.godwin@pacelabs.com  
Project Manager

Enclosures

cc: Aynsley Zollinger, AECOM



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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## CERTIFICATIONS

Project: CNA - SPARTANBURG

Pace Project No.: 92205921

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### Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
West Virginia Certification #: 357  
Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: CNA - SPARTANBURG  
Pace Project No.: 92205921

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92205921001	EW-32	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205921002	EW-26	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205921003	RW-24	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CNA - SPARTANBURG

Pace Project No.: 92205921

Sample: <b>EW-32</b>		Lab ID: <b>92205921001</b>	Collected: 06/18/14 08:40	Received: 06/18/14 16:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND	ug/L	10.0	1	06/25/14 08:47	06/30/14 17:00	92-52-4	
Diphenyl ether (Phenyl ether)	<b>50.4</b>	ug/L	10.0	1	06/25/14 08:47	06/30/14 17:00	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	71	%	21-110	1	06/25/14 08:47	06/30/14 17:00	4165-60-0	
2-Fluorobiphenyl (S)	78	%	27-110	1	06/25/14 08:47	06/30/14 17:00	321-60-8	
Terphenyl-d14 (S)	80	%	31-107	1	06/25/14 08:47	06/30/14 17:00	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>1060</b>	ug/L	40.0	20		06/25/14 16:30	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	129	%	50-150	1		06/24/14 21:48	17060-07-0	
Toluene-d8 (S)	84	%	50-150	1		06/24/14 21:48	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CNA - SPARTANBURG

Pace Project No.: 92205921

Sample: <b>EW-26</b>		Lab ID: <b>92205921002</b>	Collected: 06/18/14 09:54	Received: 06/18/14 16:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/25/14 08:47	06/30/14 17:32	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/25/14 08:47	06/30/14 17:32	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	76 %		21-110	1	06/25/14 08:47	06/30/14 17:32	4165-60-0	
2-Fluorobiphenyl (S)	84 %		27-110	1	06/25/14 08:47	06/30/14 17:32	321-60-8	
Terphenyl-d14 (S)	88 %		31-107	1	06/25/14 08:47	06/30/14 17:32	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>39.8</b> ug/L		4.0	2		06/25/14 16:52	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	139 %		50-150	1		06/24/14 22:10	17060-07-0	
Toluene-d8 (S)	84 %		50-150	1		06/24/14 22:10	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CNA - SPARTANBURG

Pace Project No.: 92205921

<b>Sample: RW-24</b>		<b>Lab ID: 92205921003</b>	Collected: 06/18/14 11:10	Received: 06/18/14 16:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/25/14 08:47	06/30/14 18:03	92-52-4	
Diphenyl ether (Phenyl ether)	<b>35.1</b> ug/L		10.0	1	06/25/14 08:47	06/30/14 18:03	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	66 %		21-110	1	06/25/14 08:47	06/30/14 18:03	4165-60-0	
2-Fluorobiphenyl (S)	72 %		27-110	1	06/25/14 08:47	06/30/14 18:03	321-60-8	
Terphenyl-d14 (S)	77 %		31-107	1	06/25/14 08:47	06/30/14 18:03	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>343</b> ug/L		10.0	5		06/24/14 22:31	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	113 %		50-150	5		06/24/14 22:31	17060-07-0	
Toluene-d8 (S)	83 %		50-150	5		06/24/14 22:31	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CNA - SPARTANBURG

Pace Project No.: 92205921

QC Batch: MSV/27325 Analysis Method: EPA 8260B Mod.

QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM

Associated Lab Samples: 92205921001, 92205921002, 92205921003

METHOD BLANK: 1227858 Matrix: Water

Associated Lab Samples: 92205921001, 92205921002, 92205921003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/24/14 12:56	
1,2-Dichloroethane-d4 (S)	%	100	50-150	06/24/14 12:56	
Toluene-d8 (S)	%	87	50-150	06/24/14 12:56	

LABORATORY CONTROL SAMPLE: 1227859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	20.6	103	71-125	
1,2-Dichloroethane-d4 (S)	%			100	50-150	
Toluene-d8 (S)	%			87	50-150	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CNA - SPARTANBURG

Pace Project No.: 92205921

QC Batch: OEXT/28494 Analysis Method: EPA 8270  
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV  
 Associated Lab Samples: 92205921001, 92205921002, 92205921003

METHOD BLANK: 1228591 Matrix: Water

Associated Lab Samples: 92205921001, 92205921002, 92205921003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Biphenyl (Diphenyl)	ug/L	ND	10.0	07/01/14 10:33	
Diphenyl ether (Phenyl ether)	ug/L	ND	10.0	07/01/14 10:33	
2,4,6-Tribromophenol (S)	%	57	27-110	07/01/14 10:33	
2-Fluorobiphenyl (S)	%	67	27-110	07/01/14 10:33	
2-Fluorophenol (S)	%	37	12-110	07/01/14 10:33	
Nitrobenzene-d5 (S)	%	63	21-110	07/01/14 10:33	
Phenol-d6 (S)	%	25	10-110	07/01/14 10:33	
Terphenyl-d14 (S)	%	95	31-107	07/01/14 10:33	

LABORATORY CONTROL SAMPLE: 1228592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Biphenyl (Diphenyl)	ug/L	50	39.8	80	38-120	
Diphenyl ether (Phenyl ether)	ug/L	50	37.2	74	51-120	
2,4,6-Tribromophenol (S)	%			76	27-110	
2-Fluorobiphenyl (S)	%			76	27-110	
2-Fluorophenol (S)	%			43	12-110	
Nitrobenzene-d5 (S)	%			57	21-110	
Phenol-d6 (S)	%			28	10-110	
Terphenyl-d14 (S)	%			89	31-107	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: CNA - SPARTANBURG

Pace Project No.: 92205921

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CNA - SPARTANBURG

Pace Project No.: 92205921

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92205921001	EW-32	EPA 3510	OEXT/28494	EPA 8270	MSSV/9324
92205921002	EW-26	EPA 3510	OEXT/28494	EPA 8270	MSSV/9324
92205921003	RW-24	EPA 3510	OEXT/28494	EPA 8270	MSSV/9324
92205921001	EW-32	EPA 8260B Mod.	MSV/27325		
92205921002	EW-26	EPA 8260B Mod.	MSV/27325		
92205921003	RW-24	EPA 8260B Mod.	MSV/27325		

### REPORT OF LABORATORY ANALYSIS

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Document Name: Sample Condition Upon Receipt (SCUR)	Document No.: F-ASV-CS-003-rev.14	Document Revised: June 10, 2014
Page 1 of 2	Issuing Authorities: Pace Asheville Quality Office	

Client Name: Accom

Courier (Circle): Pace Client Commercial Other  
 USPS UPS Fed Ex  
 Custody Seal on Cooler/Box Present:  yes  no  
 Seals intact:  yes  no  
 Packing Material:  Bubble Wrap  Bubble Bags  None  
 Thermometer Used: IR Gun#3 -130265963 Type of Ice: Wet Other:  None  Blue  Other  
 IR Gun #4 SN:140290365 Other:  None  Blue  Other  
 Temp Correction Factor: Add / Subtract 0.0 C  
 Corrected Cooler Temp: 4.1 C  
 Temp should be above freezing to 6°C

Biological Tissue is Frozen: Yes No N/A  
 Comments:  
 Date and Initials of person examining contents: RRB 6/18/14

1.	Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2.	Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3.	Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4.	Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5.	Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6.	Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
7.	Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
8.	Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
9.	Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
10.	-Face Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
11.	Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
12.	Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
13.	Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
14.	-Includes date/time/D/Analysis Matrix:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
15.	All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
16.	All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
17.	exceptions: VOA, coliform, TOC, O&G, WP-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
18.	Samples checked for dechlorination:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
19.	Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
20.	Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
21.	Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
22.	Face Trip Blank Lot # (if purchased):	

Client Notification/ Resolution: \_\_\_\_\_  
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_

SCURF Review: \_\_\_\_\_ Date: 6/18/14  
 SRF Review: \_\_\_\_\_ Date: 6/19/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

MO#: 92205921  
  
 92205921

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:
Company: <b>AECOM</b>	Report To: <b>GRYON DAHKEREN</b>	Attention: <b>BRIAN DAHKEREN</b>
Address: <b>1360 Peachtree Rd NE</b>	Copy To:	Company Name: <b>AECOM</b>
<b>ATLANTA, GA 30309</b>	Purchase Order No.:	Address:
Email To:	Project Name: <b>CMA / SPARTANBURG</b>	Pace Quote Reference: <b>SC</b>
Phone: <b>(404) 965-9657</b> Fax:	Project Number:	REGULATORY AGENCY
Requested Due Date/TAT:		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER
		<input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER
		Site Location STATE: <b>SC</b>

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives				Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB					DATE	TIME	DATE	TIME			
1	TRIP BLANK - 06 1st	DW						2						92205921	
2	EW-32	WT					6/18/14 08:40	52						001	
3	EW-26	WW					6/18/14 09:54	52						002	
4	RW-24	P					↓ 11:00	52						003	
5		SL													
6		OL													
7		WP													
8		AR													
9		TS													
10		OT													
11															
12															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS	
	DATE	TIME	DATE	TIME	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)
	6/18/14	12:00	6/18/14	14:00	Y	N
	6/18/14	16:35	6/18/14	16:35	Y	Y

**ORIGINAL**

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **JEFF LEAVER** DATE Signed (MM/DD/YY): **6/18/14**

SIGNATURE of SAMPLER: *Jeff Leaver*

Temp in °C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

July 03, 2014

Bryon Dahlgren  
AECOM  
10 Patewood Drive, Bldg 6  
Suite 500  
Greenville, SC 29615

RE: Project: CNA / SPARTANBURG  
Pace Project No.: 92205710

Dear Bryon Dahlgren:

Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin  
kevin.godwin@pacelabs.com  
Project Manager

Enclosures

cc: Aynsley Zollinger, AECOM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

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### Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
West Virginia Certification #: 357  
Virginia/VELAP Certification #: 460221

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### Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
Massachusetts Certification #: M-NC030  
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40  
South Carolina Certification #: 99030001  
West Virginia Certification #: 356  
Virginia/VELAP Certification #: 460222

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### Greenwood Certification IDs

816 Durst Avenue East, Greenwood, SC 29649  
South Carolina Laboratory ID #: 24562  
North Carolina Division of Water Resources Certification  
number 25

Florida Certification number E87633  
Virginia VELAP ID: 460250  
Asbestos NVLAP accreditation: 101410-0

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92205710001	FB-01	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	GAW	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92205710002	EB-01	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	GAW	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92205710003	MW-107	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	GAW	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92205710004	EW-40	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	GAW	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92205710005	EW-01	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205710006	EW-22	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205710007	EW-16	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205710008	EW-27	EPA 8270	BPJ	5	PASI-C

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### SAMPLE ANALYTE COUNT

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92205710009	MW-97	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8270	BPJ	5	PASI-C
92205710010	MW-96	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8270	BPJ	5	PASI-C
92205710011	TRIP BLANK-05	EPA 8260B Mod.	DLK	3	PASI-C
92205710011	TRIP BLANK-05	EPA 8260	GAW	53	PASI-C
92205710012	EW-15	EPA 8260B Mod.	DLK	3	PASI-C
92205710013	EW-14	EPA 8270	BPJ	5	PASI-C
		EPA 8260	GAW	53	PASI-C
92205710014	EW-20	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8260	GAW	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

Sample: <b>FB-01</b>	Lab ID: <b>92205710001</b>	Collected: 06/17/14 08:20	Received: 06/18/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	ND mg/L		1.0	1		06/18/14 16:35	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/18/14 16:35	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/18/14 16:35	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/18/14 16:35		
Sulfate	ND mg/L		1.0	1		06/18/14 16:35	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 08:45	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 08:45	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 08:45	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 08:45	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/26/14 08:45	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	ND ug/L		5.0	1	06/24/14 15:31	06/24/14 19:43	7439-96-5	
<b>8270 MSSV Semivolatile Organic</b> Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 13:21	06/25/14 15:34	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 13:21	06/25/14 15:34	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	29 %		21-110	1	06/24/14 13:21	06/25/14 15:34	4165-60-0	P2
2-Fluorobiphenyl (S)	36 %		27-110	1	06/24/14 13:21	06/25/14 15:34	321-60-8	
Terphenyl-d14 (S)	49 %		31-107	1	06/24/14 13:21	06/25/14 15:34	1718-51-0	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/19/14 15:37	67-64-1	
Benzene	ND ug/L		5.0	1		06/19/14 15:37	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/19/14 15:37	75-27-4	
Bromoform	ND ug/L		5.0	1		06/19/14 15:37	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/19/14 15:37	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/19/14 15:37	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/19/14 15:37	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/19/14 15:37	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/19/14 15:37	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/19/14 15:37	75-00-3	
Chloroform	ND ug/L		5.0	1		06/19/14 15:37	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/19/14 15:37	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/19/14 15:37	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/19/14 15:37	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/19/14 15:37	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/19/14 15:37	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/19/14 15:37	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/19/14 15:37	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/19/14 15:37	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/19/14 15:37	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/19/14 15:37	75-34-3	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

Sample: FB-01	Lab ID: 92205710001	Collected: 06/17/14 08:20	Received: 06/18/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
1,2-Dichloroethane	ND ug/L		5.0	1		06/19/14 15:37	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/19/14 15:37	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/19/14 15:37	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/19/14 15:37	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/19/14 15:37	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/19/14 15:37	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/19/14 15:37	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/19/14 15:37	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/19/14 15:37	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/19/14 15:37	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/19/14 15:37	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/19/14 15:37	108-87-2	
Methylene Chloride	7.2 ug/L		5.0	1		06/19/14 15:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/19/14 15:37	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/19/14 15:37	1634-04-4	
Styrene	ND ug/L		5.0	1		06/19/14 15:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		06/19/14 15:37	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/19/14 15:37	127-18-4	
Toluene	ND ug/L		5.0	1		06/19/14 15:37	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/19/14 15:37	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/19/14 15:37	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/19/14 15:37	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/19/14 15:37	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/19/14 15:37	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/19/14 15:37	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/19/14 15:37	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/19/14 15:37	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/19/14 15:37	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/19/14 15:37	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100 %		70-130	1		06/19/14 15:37	460-00-4	
1,2-Dichloroethane-d4 (S)	102 %		70-130	1		06/19/14 15:37	17060-07-0	
Toluene-d8 (S)	97 %		70-130	1		06/19/14 15:37	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		06/25/14 17:34	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	111 %		50-150	1		06/25/14 17:34	17060-07-0	
Toluene-d8 (S)	81 %		50-150	1		06/25/14 17:34	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	ND mg/L		5.0	1		06/25/14 19:08		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/24/14 16:31	18496-25-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

Sample: EB-01	Lab ID: 92205710002	Collected: 06/17/14 10:40	Received: 06/18/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>								
Analytical Method: EPA 9056A								
Chloride	ND mg/L		1.0	1		06/18/14 18:37	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/18/14 18:37	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/18/14 18:37	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/18/14 18:37		
Sulfate	ND mg/L		1.0	1		06/18/14 18:37	14808-79-8	
<b>Total Organic Carbon, GWD</b>								
Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 09:13	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 09:13	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 09:13	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 09:13	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/26/14 09:13	7440-44-0	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	ND ug/L		5.0	1	06/24/14 15:31	06/24/14 19:59	7439-96-5	
<b>8270 MSSV Semivolatile Organic</b>								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 13:21	06/25/14 16:05	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 13:21	06/25/14 16:05	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	56 %		21-110	1	06/24/14 13:21	06/25/14 16:05	4165-60-0	P2
2-Fluorobiphenyl (S)	67 %		27-110	1	06/24/14 13:21	06/25/14 16:05	321-60-8	
Terphenyl-d14 (S)	67 %		31-107	1	06/24/14 13:21	06/25/14 16:05	1718-51-0	
<b>8260 MSV</b>								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/19/14 17:47	67-64-1	
Benzene	ND ug/L		5.0	1		06/19/14 17:47	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/19/14 17:47	75-27-4	
Bromoform	ND ug/L		5.0	1		06/19/14 17:47	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/19/14 17:47	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/19/14 17:47	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/19/14 17:47	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/19/14 17:47	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/19/14 17:47	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/19/14 17:47	75-00-3	
Chloroform	ND ug/L		5.0	1		06/19/14 17:47	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/19/14 17:47	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/19/14 17:47	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/19/14 17:47	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/19/14 17:47	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/19/14 17:47	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/19/14 17:47	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/19/14 17:47	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/19/14 17:47	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/19/14 17:47	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/19/14 17:47	75-34-3	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

Sample: EB-01	Lab ID: 92205710002	Collected: 06/17/14 10:40	Received: 06/18/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
1,2-Dichloroethane	ND ug/L		5.0	1		06/19/14 17:47	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/19/14 17:47	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/19/14 17:47	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/19/14 17:47	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/19/14 17:47	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/19/14 17:47	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/19/14 17:47	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/19/14 17:47	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/19/14 17:47	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/19/14 17:47	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/19/14 17:47	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/19/14 17:47	108-87-2	
Methylene Chloride	7.0 ug/L		5.0	1		06/19/14 17:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/19/14 17:47	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/19/14 17:47	1634-04-4	
Styrene	ND ug/L		5.0	1		06/19/14 17:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		06/19/14 17:47	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/19/14 17:47	127-18-4	
Toluene	ND ug/L		5.0	1		06/19/14 17:47	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/19/14 17:47	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/19/14 17:47	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/19/14 17:47	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/19/14 17:47	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/19/14 17:47	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/19/14 17:47	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/19/14 17:47	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/19/14 17:47	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/19/14 17:47	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/19/14 17:47	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99 %		70-130	1		06/19/14 17:47	460-00-4	
1,2-Dichloroethane-d4 (S)	105 %		70-130	1		06/19/14 17:47	17060-07-0	
Toluene-d8 (S)	97 %		70-130	1		06/19/14 17:47	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		06/25/14 17:56	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	117 %		50-150	1		06/25/14 17:56	17060-07-0	
Toluene-d8 (S)	81 %		50-150	1		06/25/14 17:56	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	ND mg/L		5.0	1		06/25/14 19:15		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/24/14 16:31	18496-25-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

Sample: MW-107	Lab ID: 92205710003	Collected: 06/17/14 08:44	Received: 06/18/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	1.9 mg/L		1.0	1		06/18/14 17:05	16887-00-6	
Nitrate as N	1.2 mg/L		0.10	1		06/18/14 17:05	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/18/14 17:05	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/18/14 17:05		M1
Sulfate	ND mg/L		1.0	1		06/18/14 17:05	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 09:40	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 09:40	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 09:40	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 09:40	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/26/14 09:40	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	8.7 ug/L		5.0	1	06/24/14 15:31	06/24/14 20:02	7439-96-5	
<b>8270 MSSV Semivolatile Organic</b> Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 13:21	06/25/14 16:37	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 13:21	06/25/14 16:37	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	54 %		21-110	1	06/24/14 13:21	06/25/14 16:37	4165-60-0	P2
2-Fluorobiphenyl (S)	66 %		27-110	1	06/24/14 13:21	06/25/14 16:37	321-60-8	
Terphenyl-d14 (S)	63 %		31-107	1	06/24/14 13:21	06/25/14 16:37	1718-51-0	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/19/14 18:03	67-64-1	
Benzene	ND ug/L		5.0	1		06/19/14 18:03	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/19/14 18:03	75-27-4	
Bromoform	ND ug/L		5.0	1		06/19/14 18:03	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/19/14 18:03	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/19/14 18:03	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/19/14 18:03	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/19/14 18:03	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/19/14 18:03	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/19/14 18:03	75-00-3	
Chloroform	186 ug/L		5.0	1		06/19/14 18:03	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/19/14 18:03	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/19/14 18:03	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/19/14 18:03	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/19/14 18:03	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/19/14 18:03	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/19/14 18:03	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/19/14 18:03	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/19/14 18:03	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/19/14 18:03	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/19/14 18:03	75-34-3	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

Sample: MW-107	Lab ID: 92205710003	Collected: 06/17/14 08:44	Received: 06/18/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
1,2-Dichloroethane	ND ug/L		5.0	1		06/19/14 18:03	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/19/14 18:03	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/19/14 18:03	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/19/14 18:03	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/19/14 18:03	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/19/14 18:03	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/19/14 18:03	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/19/14 18:03	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/19/14 18:03	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/19/14 18:03	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/19/14 18:03	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/19/14 18:03	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/19/14 18:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/19/14 18:03	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/19/14 18:03	1634-04-4	
Styrene	ND ug/L		5.0	1		06/19/14 18:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		06/19/14 18:03	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/19/14 18:03	127-18-4	
Toluene	ND ug/L		5.0	1		06/19/14 18:03	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/19/14 18:03	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/19/14 18:03	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/19/14 18:03	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/19/14 18:03	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/19/14 18:03	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/19/14 18:03	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/19/14 18:03	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/19/14 18:03	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/19/14 18:03	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/19/14 18:03	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99 %		70-130	1		06/19/14 18:03	460-00-4	
1,2-Dichloroethane-d4 (S)	103 %		70-130	1		06/19/14 18:03	17060-07-0	
Toluene-d8 (S)	97 %		70-130	1		06/19/14 18:03	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		06/25/14 18:17	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	116 %		50-150	1		06/25/14 18:17	17060-07-0	
Toluene-d8 (S)	81 %		50-150	1		06/25/14 18:17	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	25.8 mg/L		5.0	1		06/25/14 19:23		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/24/14 16:31	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

Sample: EW-40	Lab ID: 92205710004	Collected: 06/17/14 10:10	Received: 06/18/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	8.6 mg/L		1.0	1		06/18/14 20:09	16887-00-6	
Nitrate as N	3.2 mg/L		0.10	1		06/18/14 20:09	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/18/14 20:09	14797-65-0	
Orthophosphate as P	0.17 mg/L		0.10	1		06/18/14 20:09		
Sulfate	5.3 mg/L		1.0	1		06/18/14 20:09	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	8550 mg/L		200	200		06/26/14 10:34	7440-44-0	
Total Organic Carbon	8420 mg/L		200	200		06/26/14 10:34	7440-44-0	
Total Organic Carbon	8380 mg/L		200	200		06/26/14 10:34	7440-44-0	
Total Organic Carbon	8950 mg/L		200	200		06/26/14 10:34	7440-44-0	
Mean Total Organic Carbon	8570 mg/L		200	200		06/26/14 10:34	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	280 ug/L		25.0	5	06/24/14 15:31	06/25/14 12:36	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	5600 ug/L		625	25		06/23/14 15:18	67-64-1	
Benzene	ND ug/L		5.0	1		06/19/14 18:19	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/19/14 18:19	75-27-4	
Bromoform	ND ug/L		5.0	1		06/19/14 18:19	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/19/14 18:19	74-83-9	
2-Butanone (MEK)	1840 ug/L		250	25		06/23/14 15:18	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/19/14 18:19	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/19/14 18:19	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/19/14 18:19	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/19/14 18:19	75-00-3	
Chloroform	18.5 ug/L		5.0	1		06/19/14 18:19	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/19/14 18:19	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/19/14 18:19	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/19/14 18:19	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/19/14 18:19	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/19/14 18:19	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/19/14 18:19	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/19/14 18:19	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/19/14 18:19	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/19/14 18:19	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/19/14 18:19	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/19/14 18:19	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/19/14 18:19	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/19/14 18:19	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/19/14 18:19	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/19/14 18:19	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/19/14 18:19	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/19/14 18:19	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/19/14 18:19	100-41-4	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

<b>Sample: EW-40</b>		<b>Lab ID: 92205710004</b>	Collected: 06/17/14 10:10	Received: 06/18/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND	ug/L	10.0	1		06/19/14 18:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/19/14 18:19	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/19/14 18:19	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/19/14 18:19	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/19/14 18:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/19/14 18:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/19/14 18:19	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/19/14 18:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/19/14 18:19	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/19/14 18:19	127-18-4	
Toluene	ND	ug/L	5.0	1		06/19/14 18:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/19/14 18:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/19/14 18:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/19/14 18:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/19/14 18:19	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/19/14 18:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/19/14 18:19	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/19/14 18:19	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/19/14 18:19	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/19/14 18:19	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/19/14 18:19	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100 %		70-130	1		06/19/14 18:19	460-00-4	
1,2-Dichloroethane-d4 (S)	109 %		70-130	1		06/19/14 18:19	17060-07-0	
Toluene-d8 (S)	96 %		70-130	1		06/19/14 18:19	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	<b>11400</b>	mg/L	5.0	1		06/27/14 13:59		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND	mg/L	0.10	1		06/24/14 16:31	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

<b>Sample: EW-01</b>		<b>Lab ID: 92205710005</b>	Collected: 06/17/14 11:17	Received: 06/18/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 13:21	06/25/14 17:08	92-52-4	
Diphenyl ether (Phenyl ether)	<b>13.1</b> ug/L		10.0	1	06/24/14 13:21	06/25/14 17:08	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	54 %		21-110	1	06/24/14 13:21	06/25/14 17:08	4165-60-0	P2
2-Fluorobiphenyl (S)	65 %		27-110	1	06/24/14 13:21	06/25/14 17:08	321-60-8	
Terphenyl-d14 (S)	69 %		31-107	1	06/24/14 13:21	06/25/14 17:08	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>32.4</b> ug/L		2.0	1		06/25/14 18:38	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	113 %		50-150	1		06/25/14 18:38	17060-07-0	
Toluene-d8 (S)	81 %		50-150	1		06/25/14 18:38	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: EW-22</b>								
<b>Lab ID: 92205710006</b>								
Collected: 06/17/14 13:24 Received: 06/18/14 07:30 Matrix: Water								
<b>8270 MSSV Semivolatile Organic</b>								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 13:21	06/26/14 16:29	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 13:21	06/26/14 16:29	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	52 %		21-110	1	06/24/14 13:21	06/26/14 16:29	4165-60-0	
2-Fluorobiphenyl (S)	56 %		27-110	1	06/24/14 13:21	06/26/14 16:29	321-60-8	
Terphenyl-d14 (S)	65 %		31-107	1	06/24/14 13:21	06/26/14 16:29	1718-51-0	
<b>8260 MSV SIM</b>								
Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	<b>604</b> ug/L		20.0	10		06/26/14 15:32	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	117 %		50-150	1		06/25/14 18:59	17060-07-0	
Toluene-d8 (S)	80 %		50-150	1		06/25/14 18:59	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

<b>Sample: EW-16</b>		<b>Lab ID: 92205710007</b>	Collected: 06/17/14 14:40	Received: 06/18/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND	ug/L	10.0	1	06/24/14 13:21	06/26/14 17:01	92-52-4	
Diphenyl ether (Phenyl ether)	<b>44.6</b>	ug/L	10.0	1	06/24/14 13:21	06/26/14 17:01	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	38	%	21-110	1	06/24/14 13:21	06/26/14 17:01	4165-60-0	
2-Fluorobiphenyl (S)	43	%	27-110	1	06/24/14 13:21	06/26/14 17:01	321-60-8	
Terphenyl-d14 (S)	49	%	31-107	1	06/24/14 13:21	06/26/14 17:01	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>1630</b>	ug/L	50.0	25		06/26/14 15:53	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	110	%	50-150	1		06/25/14 19:20	17060-07-0	
Toluene-d8 (S)	79	%	50-150	1		06/25/14 19:20	2037-26-5	

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### ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

Sample: EW-27	Lab ID: 92205710008	Collected: 06/17/14 13:00	Received: 06/18/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 13:21	06/25/14 18:43	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 13:21	06/25/14 18:43	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	60 %		21-110	1	06/24/14 13:21	06/25/14 18:43	4165-60-0	P2
2-Fluorobiphenyl (S)	67 %		27-110	1	06/24/14 13:21	06/25/14 18:43	321-60-8	
Terphenyl-d14 (S)	81 %		31-107	1	06/24/14 13:21	06/25/14 18:43	1718-51-0	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	<b>46.6</b> ug/L		5.0	2.5		06/26/14 16:15	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	115 %		50-150	1		06/25/14 19:42	17060-07-0	
Toluene-d8 (S)	80 %		50-150	1		06/25/14 19:42	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

<b>Sample: MW-97</b>		<b>Lab ID: 92205710009</b>	Collected: 06/17/14 15:10	Received: 06/18/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 13:21	06/25/14 19:15	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 13:21	06/25/14 19:15	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	53 %		21-110	1	06/24/14 13:21	06/25/14 19:15	4165-60-0	P2
2-Fluorobiphenyl (S)	66 %		27-110	1	06/24/14 13:21	06/25/14 19:15	321-60-8	
Terphenyl-d14 (S)	57 %		31-107	1	06/24/14 13:21	06/25/14 19:15	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>26.1</b> ug/L		2.0	1		06/25/14 20:03	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	117 %		50-150	1		06/25/14 20:03	17060-07-0	
Toluene-d8 (S)	81 %		50-150	1		06/25/14 20:03	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

Sample: MW-96		Lab ID: 92205710010	Collected: 06/17/14 14:15	Received: 06/18/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 13:21	06/25/14 19:47	92-52-4	
Diphenyl ether (Phenyl ether)	<b>32.7</b> ug/L		10.0	1	06/24/14 13:21	06/25/14 19:47	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	50 %		21-110	1	06/24/14 13:21	06/25/14 19:47	4165-60-0	P2
2-Fluorobiphenyl (S)	60 %		27-110	1	06/24/14 13:21	06/25/14 19:47	321-60-8	
Terphenyl-d14 (S)	58 %		31-107	1	06/24/14 13:21	06/25/14 19:47	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>25.3</b> ug/L		2.0	1		06/25/14 20:24	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	120 %		50-150	1		06/25/14 20:24	17060-07-0	
Toluene-d8 (S)	80 %		50-150	1		06/25/14 20:24	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

Sample: TRIP BLANK-05		Lab ID: 92205710011	Collected: 06/17/14 00:00	Received: 06/18/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		06/19/14 15:53	67-64-1	
Benzene	ND	ug/L	5.0	1		06/19/14 15:53	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/19/14 15:53	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/19/14 15:53	75-25-2	
Bromomethane	ND	ug/L	10.0	1		06/19/14 15:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/19/14 15:53	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/19/14 15:53	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/19/14 15:53	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/19/14 15:53	108-90-7	
Chloroethane	ND	ug/L	10.0	1		06/19/14 15:53	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/19/14 15:53	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/19/14 15:53	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		06/19/14 15:53	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/19/14 15:53	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/19/14 15:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/19/14 15:53	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/19/14 15:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/19/14 15:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/19/14 15:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/19/14 15:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/19/14 15:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/19/14 15:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/19/14 15:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/19/14 15:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/19/14 15:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/19/14 15:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/19/14 15:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/19/14 15:53	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/19/14 15:53	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/19/14 15:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/19/14 15:53	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/19/14 15:53	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/19/14 15:53	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/19/14 15:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/19/14 15:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/19/14 15:53	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/19/14 15:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/19/14 15:53	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/19/14 15:53	127-18-4	
Toluene	ND	ug/L	5.0	1		06/19/14 15:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/19/14 15:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/19/14 15:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/19/14 15:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/19/14 15:53	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/19/14 15:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/19/14 15:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/19/14 15:53	76-13-1	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

<b>Sample: TRIP BLANK-05</b>		<b>Lab ID: 92205710011</b>	Collected: 06/17/14 00:00	Received: 06/18/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Vinyl acetate	ND ug/L		10.0	1		06/19/14 15:53	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/19/14 15:53	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/19/14 15:53	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	98 %		70-130	1		06/19/14 15:53	460-00-4	
1,2-Dichloroethane-d4 (S)	104 %		70-130	1		06/19/14 15:53	17060-07-0	
Toluene-d8 (S)	96 %		70-130	1		06/19/14 15:53	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

Sample: EW-15		Lab ID: 92205710012	Collected: 06/17/14 16:33	Received: 06/18/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	36.5 ug/L		2.0	1		06/26/14 17:19	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	115 %		50-150	1		06/26/14 17:19	17060-07-0	
Toluene-d8 (S)	77 %		50-150	1		06/26/14 17:19	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

Sample: EW-14	Lab ID: 92205710013	Collected: 06/17/14 16:15	Received: 06/18/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b> Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	49.1 ug/L		10.0	1	06/24/14 13:21	06/25/14 20:18	92-52-4	
Diphenyl ether (Phenyl ether)	653 ug/L		100	10	06/24/14 13:21	06/26/14 20:10	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	31 %		21-110	1	06/24/14 13:21	06/25/14 20:18	4165-60-0	
2-Fluorobiphenyl (S)	40 %		27-110	1	06/24/14 13:21	06/25/14 20:18	321-60-8	
Terphenyl-d14 (S)	32 %		31-107	1	06/24/14 13:21	06/25/14 20:18	1718-51-0	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	25.4 ug/L		25.0	1		06/19/14 18:35	67-64-1	
Benzene	ND ug/L		5.0	1		06/19/14 18:35	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/19/14 18:35	75-27-4	
Bromoform	ND ug/L		5.0	1		06/19/14 18:35	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/19/14 18:35	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/19/14 18:35	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/19/14 18:35	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/19/14 18:35	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/19/14 18:35	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/19/14 18:35	75-00-3	
Chloroform	7.6 ug/L		5.0	1		06/19/14 18:35	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/19/14 18:35	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/19/14 18:35	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/19/14 18:35	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/19/14 18:35	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/19/14 18:35	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/19/14 18:35	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/19/14 18:35	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/19/14 18:35	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/19/14 18:35	75-71-8	
1,1-Dichloroethane	71.4 ug/L		5.0	1		06/19/14 18:35	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/19/14 18:35	107-06-2	
1,1-Dichloroethene	13.5 ug/L		5.0	1		06/19/14 18:35	75-35-4	
cis-1,2-Dichloroethene	143 ug/L		5.0	1		06/19/14 18:35	156-59-2	
trans-1,2-Dichloroethene	22.0 ug/L		5.0	1		06/19/14 18:35	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/19/14 18:35	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/19/14 18:35	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/19/14 18:35	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/19/14 18:35	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/19/14 18:35	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/19/14 18:35	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/19/14 18:35	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/19/14 18:35	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/19/14 18:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/19/14 18:35	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/19/14 18:35	1634-04-4	
Styrene	ND ug/L		5.0	1		06/19/14 18:35	100-42-5	
1,1,2,2-Tetrachloroethane	334 ug/L		25.0	5		06/23/14 15:34	79-34-5	
Tetrachloroethene	5.4 ug/L		5.0	1		06/19/14 18:35	127-18-4	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

Sample: <b>EW-14</b>	Lab ID: <b>92205710013</b>	Collected: 06/17/14 16:15	Received: 06/18/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Toluene	ND	ug/L	5.0	1		06/19/14 18:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/19/14 18:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/19/14 18:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/19/14 18:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/19/14 18:35	79-00-5	
Trichloroethene	<b>235</b>	ug/L	25.0	5		06/23/14 15:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/19/14 18:35	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/19/14 18:35	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/19/14 18:35	108-05-4	
Vinyl chloride	<b>21.1</b>	ug/L	5.0	1		06/19/14 18:35	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/19/14 18:35	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	97 %		70-130	1		06/19/14 18:35	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		06/19/14 18:35	17060-07-0	
Toluene-d8 (S)	98 %		70-130	1		06/19/14 18:35	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>35.7</b>	ug/L	2.0	1		06/25/14 21:07	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	111 %		50-150	1		06/25/14 21:07	17060-07-0	
Toluene-d8 (S)	80 %		50-150	1		06/25/14 21:07	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

Sample: **EW-20** Lab ID: **92205710014** Collected: 06/17/14 17:15 Received: 06/18/14 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		06/19/14 18:52	67-64-1	
Benzene	ND	ug/L	5.0	1		06/19/14 18:52	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/19/14 18:52	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/19/14 18:52	75-25-2	
Bromomethane	ND	ug/L	10.0	1		06/19/14 18:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/19/14 18:52	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/19/14 18:52	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/19/14 18:52	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/19/14 18:52	108-90-7	
Chloroethane	ND	ug/L	10.0	1		06/19/14 18:52	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/19/14 18:52	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/19/14 18:52	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		06/19/14 18:52	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/19/14 18:52	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/19/14 18:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/19/14 18:52	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/19/14 18:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/19/14 18:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/19/14 18:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/19/14 18:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/19/14 18:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/19/14 18:52	107-06-2	
1,1-Dichloroethene	<b>16.2</b>	ug/L	5.0	1		06/19/14 18:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/19/14 18:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/19/14 18:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/19/14 18:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/19/14 18:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/19/14 18:52	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/19/14 18:52	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/19/14 18:52	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/19/14 18:52	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/19/14 18:52	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/19/14 18:52	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/19/14 18:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/19/14 18:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/19/14 18:52	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/19/14 18:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/19/14 18:52	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/19/14 18:52	127-18-4	
Toluene	ND	ug/L	5.0	1		06/19/14 18:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/19/14 18:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/19/14 18:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/19/14 18:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/19/14 18:52	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/19/14 18:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/19/14 18:52	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/19/14 18:52	76-13-1	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

Sample: <b>EW-20</b>		Lab ID: <b>92205710014</b>	Collected: 06/17/14 17:15	Received: 06/18/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Vinyl acetate	ND ug/L		10.0	1		06/19/14 18:52	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/19/14 18:52	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/19/14 18:52	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100 %		70-130	1		06/19/14 18:52	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/19/14 18:52	17060-07-0	
Toluene-d8 (S)	96 %		70-130	1		06/19/14 18:52	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>16.0</b> ug/L		2.0	1		06/25/14 21:28	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	114 %		50-150	1		06/25/14 21:28	17060-07-0	
Toluene-d8 (S)	80 %		50-150	1		06/25/14 21:28	2037-26-5	

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

QC Batch: GWD/1352 Analysis Method: EPA 9056A  
 QC Batch Method: EPA 9056A Analysis Description: 9056 IC Anions, GWD  
 Associated Lab Samples: 92205710001, 92205710002, 92205710003, 92205710004

METHOD BLANK: 1223790 Matrix: Water  
 Associated Lab Samples: 92205710001, 92205710002, 92205710003, 92205710004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	06/18/14 15:34	
Nitrate as N	mg/L	ND	0.10	06/18/14 15:34	
Nitrite as N	mg/L	ND	0.10	06/18/14 15:34	
Orthophosphate as P	mg/L	ND	0.10	06/18/14 15:34	
Sulfate	mg/L	ND	1.0	06/18/14 15:34	

LABORATORY CONTROL SAMPLE: 1223791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.7	101	90-110	
Nitrate as N	mg/L	2.5	2.5	99	90-110	
Nitrite as N	mg/L	2.5	2.5	101	90-110	
Orthophosphate as P	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	49.3	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1223839 1223840

Parameter	Units	92205710003		MSD		MSD		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Chloride	mg/L	1.9	50	50	52.0	52.1	100	100	90-110	0		
Nitrate as N	mg/L	1.2	2.5	2.5	3.8	3.8	105	104	90-110	0		
Nitrite as N	mg/L	ND	2.5	2.5	2.5	2.5	100	99	90-110	1		
Orthophosphate as P	mg/L	ND	2.5	2.5	2.2	2.2	87	89	90-110	3	M1	
Sulfate	mg/L	ND	50	50	49.7	49.7	98	99	90-110	0		

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

QC Batch: GWD/1374

Analysis Method: EPA 9060A

QC Batch Method: EPA 9060A

Analysis Description: 9060 TOC, GWD

Associated Lab Samples: 92205710001, 92205710002, 92205710003, 92205710004

METHOD BLANK: 1228831

Matrix: Water

Associated Lab Samples: 92205710001, 92205710002, 92205710003, 92205710004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	ND	1.0	06/26/14 06:08	
Total Organic Carbon	mg/L	ND	1.0	06/26/14 06:08	
Total Organic Carbon	mg/L	ND	1.0	06/26/14 06:08	
Total Organic Carbon	mg/L	ND	1.0	06/26/14 06:08	
Total Organic Carbon	mg/L	ND	1.0	06/26/14 06:08	

LABORATORY CONTROL SAMPLE: 1228832

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	50	49.6	99	75-125	
Total Organic Carbon	mg/L	50	49.3	99	75-125	
Total Organic Carbon	mg/L	50	50.3	101	75-125	
Total Organic Carbon	mg/L	50	50.4	101	75-125	
Total Organic Carbon	mg/L	50	48.7	97	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1228833 1228834

Parameter	Units	92205236022		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Mean Total Organic Carbon	mg/L	43.3	50	50	95.6	96.9	105	107	75-125	1		
Total Organic Carbon	mg/L	42.9	50	50	96.8	96.7	108	108	75-125	0		
Total Organic Carbon	mg/L	42.9	50	50	94.4	95.1	103	104	75-125	1		
Total Organic Carbon	mg/L	43.4	50	50	95.3	98.6	104	110	75-125	3		
Total Organic Carbon	mg/L	44.0	50	50	95.9	97.3	104	107	75-125	1		

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

QC Batch: MPRP/16296 Analysis Method: EPA 6010  
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET Filtered  
 Associated Lab Samples: 92205710001, 92205710002, 92205710003, 92205710004

METHOD BLANK: 1227871 Matrix: Water  
 Associated Lab Samples: 92205710001, 92205710002, 92205710003, 92205710004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	5.0	06/24/14 19:35	

LABORATORY CONTROL SAMPLE: 1227872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	500	488	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1227873 1227874

Parameter	Units	92205819007		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Manganese, Dissolved	ug/L	39.2	500	500	496	489	91	90	75-125	1		

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

QC Batch: MSV/27273 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92205710001, 92205710002, 92205710003, 92205710004, 92205710011, 92205710013, 92205710014

METHOD BLANK: 1224781 Matrix: Water  
 Associated Lab Samples: 92205710001, 92205710002, 92205710003, 92205710004, 92205710011, 92205710013, 92205710014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/19/14 11:50	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/19/14 11:50	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/19/14 11:50	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	06/19/14 11:50	
1,1-Dichloroethane	ug/L	ND	5.0	06/19/14 11:50	
1,1-Dichloroethene	ug/L	ND	5.0	06/19/14 11:50	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/19/14 11:50	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/19/14 11:50	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	06/19/14 11:50	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/19/14 11:50	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/19/14 11:50	
1,2-Dichloroethane	ug/L	ND	5.0	06/19/14 11:50	
1,2-Dichloropropane	ug/L	ND	5.0	06/19/14 11:50	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/19/14 11:50	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/19/14 11:50	
2-Butanone (MEK)	ug/L	ND	10.0	06/19/14 11:50	
2-Hexanone	ug/L	ND	10.0	06/19/14 11:50	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/19/14 11:50	
Acetone	ug/L	ND	25.0	06/19/14 11:50	
Benzene	ug/L	ND	5.0	06/19/14 11:50	
Bromodichloromethane	ug/L	ND	5.0	06/19/14 11:50	
Bromoform	ug/L	ND	5.0	06/19/14 11:50	
Bromomethane	ug/L	ND	10.0	06/19/14 11:50	
Carbon disulfide	ug/L	ND	10.0	06/19/14 11:50	
Carbon tetrachloride	ug/L	ND	5.0	06/19/14 11:50	
Chlorobenzene	ug/L	ND	5.0	06/19/14 11:50	
Chloroethane	ug/L	ND	10.0	06/19/14 11:50	
Chloroform	ug/L	ND	5.0	06/19/14 11:50	
Chloromethane	ug/L	ND	5.0	06/19/14 11:50	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/19/14 11:50	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/19/14 11:50	
Cyclohexane	ug/L	ND	5.0	06/19/14 11:50	
Dibromochloromethane	ug/L	ND	5.0	06/19/14 11:50	
Dichlorodifluoromethane	ug/L	ND	5.0	06/19/14 11:50	
Ethylbenzene	ug/L	ND	5.0	06/19/14 11:50	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/19/14 11:50	
Methyl acetate	ug/L	ND	10.0	06/19/14 11:50	
Methyl-tert-butyl ether	ug/L	ND	5.0	06/19/14 11:50	
Methylcyclohexane	ug/L	ND	10.0	06/19/14 11:50	
Methylene Chloride	ug/L	ND	5.0	06/19/14 11:50	
Styrene	ug/L	ND	5.0	06/19/14 11:50	

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

METHOD BLANK: 1224781

Matrix: Water

Associated Lab Samples: 92205710001, 92205710002, 92205710003, 92205710004, 92205710011, 92205710013, 92205710014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tetrachloroethene	ug/L	ND	5.0	06/19/14 11:50	
Toluene	ug/L	ND	5.0	06/19/14 11:50	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/19/14 11:50	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/19/14 11:50	
Trichloroethene	ug/L	ND	5.0	06/19/14 11:50	
Trichlorofluoromethane	ug/L	ND	10.0	06/19/14 11:50	
Vinyl acetate	ug/L	ND	10.0	06/19/14 11:50	
Vinyl chloride	ug/L	ND	5.0	06/19/14 11:50	
Xylene (Total)	ug/L	ND	10.0	06/19/14 11:50	
1,2-Dichloroethane-d4 (S)	%	98	70-130	06/19/14 11:50	
4-Bromofluorobenzene (S)	%	98	70-130	06/19/14 11:50	
Toluene-d8 (S)	%	109	70-130	06/19/14 11:50	

LABORATORY CONTROL SAMPLE: 1224782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.3	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.5	103	70-130	
1,1,2-Trichloroethane	ug/L	50	49.8	100	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	51.9	104	70-130	
1,1-Dichloroethane	ug/L	50	50.3	101	70-130	
1,1-Dichloroethene	ug/L	50	42.1	84	70-130	
1,2,3-Trichlorobenzene	ug/L	50	57.6	115	70-130	
1,2,4-Trichlorobenzene	ug/L	50	54.7	109	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.6	97	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.7	105	70-130	
1,2-Dichlorobenzene	ug/L	50	54.8	110	70-130	
1,2-Dichloroethane	ug/L	50	49.8	100	70-130	
1,2-Dichloropropane	ug/L	50	52.9	106	70-130	
1,3-Dichlorobenzene	ug/L	50	53.0	106	70-130	
1,4-Dichlorobenzene	ug/L	50	52.3	105	70-130	
2-Butanone (MEK)	ug/L	100	99.6	100	70-130	
2-Hexanone	ug/L	100	109	109	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	109	109	70-130	
Acetone	ug/L	100	104	104	70-130	
Benzene	ug/L	50	53.6	107	70-130	
Bromodichloromethane	ug/L	50	51.7	103	70-130	
Bromoform	ug/L	50	46.3	93	70-130	
Bromomethane	ug/L	50	43.6	87	70-130	
Carbon disulfide	ug/L	50	48.3	97	70-130	
Carbon tetrachloride	ug/L	50	51.3	103	70-130	
Chlorobenzene	ug/L	50	49.9	100	70-130	
Chloroethane	ug/L	50	43.0	86	70-130	
Chloroform	ug/L	50	52.3	105	70-130	

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

LABORATORY CONTROL SAMPLE: 1224782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	50	51.6	103	70-130	
cis-1,2-Dichloroethene	ug/L	50	51.4	103	70-130	
cis-1,3-Dichloropropene	ug/L	50	46.7	93	70-130	
Cyclohexane	ug/L	50	64.6	129	70-130	
Dibromochloromethane	ug/L	50	45.7	91	70-130	
Dichlorodifluoromethane	ug/L	50	49.5	99	70-130	
Ethylbenzene	ug/L	50	49.8	100	70-130	
Isopropylbenzene (Cumene)	ug/L	50	52.5	105	70-130	
Methyl acetate	ug/L	50	56.6	113	70-130	
Methyl-tert-butyl ether	ug/L	50	55.2	110	70-130	
Methylcyclohexane	ug/L	50	60.2	120	70-130	
Methylene Chloride	ug/L	50	48.7	97	70-130	
Styrene	ug/L	50	55.2	110	70-130	
Tetrachloroethene	ug/L	50	51.6	103	70-130	
Toluene	ug/L	50	48.4	97	70-130	
trans-1,2-Dichloroethene	ug/L	50	54.8	110	70-130	
trans-1,3-Dichloropropene	ug/L	50	46.1	92	70-130	
Trichloroethene	ug/L	50	52.0	104	70-130	
Trichlorofluoromethane	ug/L	50	47.8	96	70-130	
Vinyl acetate	ug/L	100	107	107	70-130	
Vinyl chloride	ug/L	50	53.3	107	70-130	
Xylene (Total)	ug/L	150	151	101	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			99	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

QC Batch: MSV/27344 Analysis Method: EPA 8260B Mod.  
 QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM  
 Associated Lab Samples: 92205710001, 92205710002, 92205710003, 92205710005, 92205710006, 92205710007, 92205710008,  
 92205710009, 92205710010, 92205710013, 92205710014

METHOD BLANK: 1228948 Matrix: Water  
 Associated Lab Samples: 92205710001, 92205710002, 92205710003, 92205710005, 92205710006, 92205710007, 92205710008,  
 92205710009, 92205710010, 92205710013, 92205710014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/25/14 15:26	
1,2-Dichloroethane-d4 (S)	%	56	50-150	06/25/14 15:26	
Toluene-d8 (S)	%	82	50-150	06/25/14 15:26	

LABORATORY CONTROL SAMPLE: 1228949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	20.5	102	71-125	
1,2-Dichloroethane-d4 (S)	%			109	50-150	
Toluene-d8 (S)	%			83	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1228951 1228952

Parameter	Units	92205819007		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	20.6	20.9	103	104	50-150	2		
1,2-Dichloroethane-d4 (S)	%						114	111	50-150			
Toluene-d8 (S)	%						78	78	50-150			

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

QC Batch:	MSV/27358	Analysis Method:	EPA 8260B Mod.
QC Batch Method:	EPA 8260B Mod.	Analysis Description:	8260 MSV SIM
Associated Lab Samples:	92205710012		

METHOD BLANK: 1230158 Matrix: Water

Associated Lab Samples: 92205710012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/26/14 15:10	
1,2-Dichloroethane-d4 (S)	%	121	50-150	06/26/14 15:10	
Toluene-d8 (S)	%	78	50-150	06/26/14 15:10	

LABORATORY CONTROL SAMPLE: 1230159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	18.8	94	71-125	
1,2-Dichloroethane-d4 (S)	%			107	50-150	
Toluene-d8 (S)	%			79	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1230160 1230161

Parameter	Units	92206263002		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	18.9	19.5	94	98	50-150	3				
1,2-Dichloroethane-d4 (S)	%						119	125	50-150					
Toluene-d8 (S)	%						76	76	50-150					

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

QC Batch: OEXT/28469 Analysis Method: EPA 8270  
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV  
 Associated Lab Samples: 92205710001, 92205710002, 92205710003, 92205710005, 92205710006, 92205710007, 92205710008, 92205710009, 92205710010, 92205710013

METHOD BLANK: 1227934 Matrix: Water  
 Associated Lab Samples: 92205710001, 92205710002, 92205710003, 92205710005, 92205710006, 92205710007, 92205710008, 92205710009, 92205710010, 92205710013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Biphenyl (Diphenyl)	ug/L	ND	10.0	06/25/14 14:25	
Diphenyl ether (Phenyl ether)	ug/L	ND	10.0	06/25/14 14:25	
2,4,6-Tribromophenol (S)	%	47	27-110	06/25/14 14:25	
2-Fluorobiphenyl (S)	%	62	27-110	06/25/14 14:25	
2-Fluorophenol (S)	%	34	12-110	06/25/14 14:25	
Nitrobenzene-d5 (S)	%	50	21-110	06/25/14 14:25	
Phenol-d6 (S)	%	21	10-110	06/25/14 14:25	
Terphenyl-d14 (S)	%	88	31-107	06/25/14 14:25	

LABORATORY CONTROL SAMPLE: 1227935

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Biphenyl (Diphenyl)	ug/L	50	22.0	44	38-120	
Diphenyl ether (Phenyl ether)	ug/L	50	20.4	41	51-120 L2	
2,4,6-Tribromophenol (S)	%			61	27-110	
2-Fluorobiphenyl (S)	%			40	27-110	
2-Fluorophenol (S)	%			21	12-110	
Nitrobenzene-d5 (S)	%			31	21-110	
Phenol-d6 (S)	%			15	10-110	
Terphenyl-d14 (S)	%			74	31-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1227936 1227937

Parameter	Units	92205757002		MSD		MSD		% Rec		Limits	RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Biphenyl (Diphenyl)	ug/L	ND	100	100	61.6	65.7	62	66	50-150	6		
Diphenyl ether (Phenyl ether)	ug/L	ND	100	100	57.9	60.3	58	60	50-150	4		
2,4,6-Tribromophenol (S)	%						69	67	27-110			
2-Fluorobiphenyl (S)	%						57	61	27-110			
2-Fluorophenol (S)	%						38	44	12-110			
Nitrobenzene-d5 (S)	%						43	47	21-110			
Phenol-d6 (S)	%						30	36	10-110			
Terphenyl-d14 (S)	%						69	72	31-107			

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

QC Batch: WET/31773 Analysis Method: SM 2320B  
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
 Associated Lab Samples: 92205710001, 92205710002, 92205710003

METHOD BLANK: 1228651 Matrix: Water

Associated Lab Samples: 92205710001, 92205710002, 92205710003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	06/25/14 11:32	

LABORATORY CONTROL SAMPLE: 1228652

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.6	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1228653 1228654

Parameter	Units	92205965001		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Alkalinity, Total as CaCO3	mg/L	382	50	50	418	413	73	63	75-125	1	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1228657 1228658

Parameter	Units	92206232001		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Alkalinity, Total as CaCO3	mg/L	23.2	50	50	72.0	70.4	98	94	75-125	2		

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

QC Batch:	WET/31834	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
Associated Lab Samples:	92205710004		

METHOD BLANK: 1230912 Matrix: Water  
Associated Lab Samples: 92205710004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	06/27/14 12:26	

LABORATORY CONTROL SAMPLE: 1230913

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	47.7	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1230914 1230915

Parameter	Units	92206545001		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Alkalinity, Total as CaCO3	mg/L	62.5	50	50	50	109	108	93	92	75-125	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1230916 1230917

Parameter	Units	92206545004		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Alkalinity, Total as CaCO3	mg/L	146	50	50	50	187	189	83	87	75-125	1	

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG  
Pace Project No.: 92205710

QC Batch: WET/31728 Analysis Method: SM 4500-S2D  
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water  
Associated Lab Samples: 92205710001, 92205710002, 92205710003, 92205710004

METHOD BLANK: 1227009 Matrix: Water  
Associated Lab Samples: 92205710001, 92205710002, 92205710003, 92205710004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/24/14 16:31	

LABORATORY CONTROL SAMPLE: 1227010

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.53	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1227011 1227012

Parameter	Units	92206102008 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.							
Sulfide	mg/L	ND	.5	.5	0.56	0.56	113	113	75-125	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1227852 1227853

Parameter	Units	92206102009 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.							
Sulfide	mg/L	ND	.5	.5	0.56	0.56	112	112	75-125	0	

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## QUALIFIERS

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

PASI-G Pace Analytical Services - Greenwood

### ANALYTE QUALIFIERS

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92205710001	FB-01	EPA 9056A	GWD/1352		
92205710002	EB-01	EPA 9056A	GWD/1352		
92205710003	MW-107	EPA 9056A	GWD/1352		
92205710004	EW-40	EPA 9056A	GWD/1352		
92205710001	FB-01	EPA 9060A	GWD/1374		
92205710002	EB-01	EPA 9060A	GWD/1374		
92205710003	MW-107	EPA 9060A	GWD/1374		
92205710004	EW-40	EPA 9060A	GWD/1374		
92205710001	FB-01	EPA 3010	MPRP/16296	EPA 6010	ICP/14721
92205710002	EB-01	EPA 3010	MPRP/16296	EPA 6010	ICP/14721
92205710003	MW-107	EPA 3010	MPRP/16296	EPA 6010	ICP/14721
92205710004	EW-40	EPA 3010	MPRP/16296	EPA 6010	ICP/14721
92205710001	FB-01	EPA 3510	OEXT/28469	EPA 8270	MSSV/9306
92205710002	EB-01	EPA 3510	OEXT/28469	EPA 8270	MSSV/9306
92205710003	MW-107	EPA 3510	OEXT/28469	EPA 8270	MSSV/9306
92205710005	EW-01	EPA 3510	OEXT/28469	EPA 8270	MSSV/9306
92205710006	EW-22	EPA 3510	OEXT/28469	EPA 8270	MSSV/9306
92205710007	EW-16	EPA 3510	OEXT/28469	EPA 8270	MSSV/9306
92205710008	EW-27	EPA 3510	OEXT/28469	EPA 8270	MSSV/9306
92205710009	MW-97	EPA 3510	OEXT/28469	EPA 8270	MSSV/9306
92205710010	MW-96	EPA 3510	OEXT/28469	EPA 8270	MSSV/9306
92205710013	EW-14	EPA 3510	OEXT/28469	EPA 8270	MSSV/9306
92205710001	FB-01	EPA 8260	MSV/27273		
92205710002	EB-01	EPA 8260	MSV/27273		
92205710003	MW-107	EPA 8260	MSV/27273		
92205710004	EW-40	EPA 8260	MSV/27273		
92205710011	TRIP BLANK-05	EPA 8260	MSV/27273		
92205710013	EW-14	EPA 8260	MSV/27273		
92205710014	EW-20	EPA 8260	MSV/27273		
92205710001	FB-01	EPA 8260B Mod.	MSV/27344		
92205710002	EB-01	EPA 8260B Mod.	MSV/27344		
92205710003	MW-107	EPA 8260B Mod.	MSV/27344		
92205710005	EW-01	EPA 8260B Mod.	MSV/27344		
92205710006	EW-22	EPA 8260B Mod.	MSV/27344		
92205710007	EW-16	EPA 8260B Mod.	MSV/27344		
92205710008	EW-27	EPA 8260B Mod.	MSV/27344		
92205710009	MW-97	EPA 8260B Mod.	MSV/27344		
92205710010	MW-96	EPA 8260B Mod.	MSV/27344		
92205710012	EW-15	EPA 8260B Mod.	MSV/27358		
92205710013	EW-14	EPA 8260B Mod.	MSV/27344		
92205710014	EW-20	EPA 8260B Mod.	MSV/27344		
92205710001	FB-01	SM 2320B	WET/31773		
92205710002	EB-01	SM 2320B	WET/31773		
92205710003	MW-107	SM 2320B	WET/31773		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CNA / SPARTANBURG

Pace Project No.: 92205710

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92205710004	EW-40	SM 2320B	WET/31834		
92205710001	FB-01	SM 4500-S2D	WET/31728		
92205710002	EB-01	SM 4500-S2D	WET/31728		
92205710003	MW-107	SM 4500-S2D	WET/31728		
92205710004	EW-40	SM 4500-S2D	WET/31728		

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Document Name:  
**Sample Condition Upon Receipt (SCUR)**  
 Document Number:  
**F-GWD-QA-015-Rev00**

Document Revised: February 6, 2014  
 Page 1 of 2  
 Issuing Authority:  
 Pace Greenwood Quality Office

10F2

Client Name: AECOM

Where Received:  Greenwood  Asheville  Eden  Raleigh  Huntersville

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Optional  
 Proj. Due Date:  
 Proj. Name:

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used: IR Gun TH-72 Type of Ice: Wet Blue None  Samples on ice, cooling process has begun

Temp Correction Factor TH-72: Add / Subtract (circle) 0.3 deg C

Corrected Cooler Temp.: 4.3 C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: M. 6.18.14

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>Orthophosphate</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>H2O</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Samples checked for dechlorination:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

SCURF Review: [Signature]

Date: 6/18/14

SRF Review: [Signature]

Date: 6/18/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92205710



**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A** Required Client Information: Company: AECOM Report To: BEYON DALLGREN Attention: BEYON DALLGREN Invoice Information: 17966313

**Section B** Required Project Information: Address: 1360 PEACHTREE ST. N. ATLANTA, GA 30529 Copy To: BEYON DALLGREN Company Name: AECOM Address: REGULATORY AGENCY

**Section C** Required Analysis Information: Email To: 404-965-9657 Project Name: CWA / SPARTANBURG Reference: SC Site Location: STATE: SC Requested Due Date/TAT: 6/17/14 Project Number: 15828206 Pace Project Manager: SC

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
					DATE	TIME					
1	EB-01	Drinking Water	G	G	6/17/14	0830	18.10	1	3	1	001
2	EB-01	Water	G	G	6/17/14	1040	18.10	1	3	1	002
3	MW-107	Waste Water	G	G	6/17/14	0844	19.10	1	3	1	003
4	EW-90	Product	G	G	6/17/14	1010	13.8	1	3	1	004
5	EW-01	Soil/Solid	G	G	6/17/14	1117	5.2	3	3	1	005
6	EW-22	Oil	G	G	6/17/14	1324	5.2	3	3	1	006
7	EW-16	Wipe	G	G	6/17/14	1440	5.2	3	3	1	007
8	EW-27	Air	G	G	6/17/14	1300	5.2	3	3	1	008
9	MW-97	Tissue	G	G	6/17/14	1510	5.2	3	3	1	009
10	MW-96	Other	G	G	6/17/14	1415	5.2	3	3	1	010
11	TRIP BLANK-05		G	G	6/17/14	1633	5.2	3	3	1	011
12	EW-15		G	G	6/17/14	1633	5.2	3	3	1	012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<u>Jefferson</u>	<u>6/17/14</u>	<u>1730</u>	<u>[Signature]</u>	<u>6/17/14</u>	<u>1730</u>	Temp in °C: <u>4.3</u> Received on Ice (Y/N): <u>Y</u> Custody Sealed Cooler (Y/N): <u>N</u> Samples Intact (Y/N): <u>Y</u>
	<u>Jefferson</u>	<u>6/17/14</u>	<u>0730</u>	<u>[Signature]</u>	<u>6/17/14</u>	<u>1730</u>	
	<u>Jefferson</u>	<u>6/17/14</u>	<u>0730</u>	<u>[Signature]</u>	<u>6/17/14</u>	<u>1730</u>	
	<u>Jefferson</u>	<u>6/17/14</u>	<u>0730</u>	<u>[Signature]</u>	<u>6/17/14</u>	<u>1730</u>	

**Section D** Required Client Information: Matrix Codes: DW, WT, WW, P, SL, OL, WP, AR, TS, OT. Matrix: Drinking Water, Water, Waste Water, Product, Soil/Solid, Oil, Wipe, Air, Tissue, Other. Matrix Code: (see valid codes to left). Sample Type: (G=GRAB C=COMP). Date: 6/17/14. Time: 0830. Sample Temp: 18.10. # of Containers: 1. Preservatives: H2SO4, HNO3, HCl, NaOH, Na2S2O3, Methanol, Other: 1H102. Analysis Test: VOC/8260, 1,4 DIOXANE, DOW THERM-A, ORTHO PHOSPHATE, SULFATE, SULFIDE, ALK, CL, NO2, NO3, TOC, DISS. MA. Residual Chlorine: Pace Project No./ Lab I.D. 92265710

**Section E** Required Analysis Information: Requested Analysis Filtered (Y/N). Regulatory Agency: SC. Site Location: STATE: SC. Ground Water, Drinking Water, Other.

**Section F** Required Signatures: Sampler Name and Signature: [Signature]. Date Signed: 6/17/14. Print Name of Sampler: SOFF LEAR. Signature of Sampler: [Signature]. Date Signed (MM/DD/YY): 6/17/14. Temp in °C: 4.3. Received on Ice (Y/N): Y. Custody Sealed Cooler (Y/N): N. Samples Intact (Y/N): Y.



Document Name:  
**Sample Condition Upon Receipt (SCUR)**  
 Document Number:  
**F-GWD-QA-015-Rev00**

Document Revised: February 6, 2014  
 Page 1 of 2  
 Issuing Authority:  
 Pace Greenwood Quality Office

20F2

Client Name: AECOM

Where Received:  Greenwood  Asheville  Eden  Raleigh  Huntersville

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

Optional  
 Proj. Due Date:  
 Proj. Name:

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used: IR Gun TH-72 Type of Ice: Wet Blue None  Samples on ice, cooling process has begun

Temp Correction Factor TH-72: Add / Subtract (circle) 0.3 deg C

Corrected Cooler Temp.: 4.3 C

Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: Sh 6.18.14

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>orthophosphate</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>H<sub>2</sub>O</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Samples checked for dechlorination:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

SCURF Review: [Signature] Date: 6/18/14  
 SRF Review: [Signature] Date: 6/18/14

Place label here

92205710

OR

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Handwrite project number  
 (if no label available)



**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
Required Client Information:

Company: ALCON  
Address: 1360 ROCHAMORE ST NE  
City: ATLANTA, GA 30509  
Phone: (404) 965-9617 Fax: \_\_\_\_\_  
Requested Due Date/TAT: \_\_\_\_\_

**Section B**  
Required Project Information:

Report To: RYAN DATHEREN  
Copy To: \_\_\_\_\_  
Purchase Order No.: \_\_\_\_\_  
Project Name: CWA/SHEPHERD C  
Project Number: \_\_\_\_\_

**Section C**  
Invoice Information:

Attention: RYAN DATHEREN  
Company Name: ALCON  
Address: \_\_\_\_\_  
City: \_\_\_\_\_  
State: \_\_\_\_\_  
Zip: \_\_\_\_\_  
Reference: \_\_\_\_\_  
Pace Project Manager: \_\_\_\_\_  
Pace Profile #: \_\_\_\_\_

Page: 2 of 2  
**1796314**

REGULATORY AGENCY  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_  
 Site Location STATE: SC

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB			DATE	TIME	DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>			
1	EW-14		G	G	6/11/14	16:55	6	5										922 05710
2	EW-20		G	G	6/11/14	17:15	6	3										013
3																		014
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<u>Jeff Seaver / EPA</u>	<u>6/11/14</u>	<u>1730</u>	<u>[Signature]</u>	<u>6/17/14</u>	<u>17:30</u>	Temp in °C _____ Received on Ice (Y/N) _____ Custody Sealed Cooler (Y/N) _____ Samples Intact (Y/N) _____
	<u>Jeff Seaver / EPA</u>	<u>6/18/14</u>	<u>0730</u>	<u>[Signature]</u>	<u>6/18/14</u>	<u>0730</u>	#3 y N y
	<u>Jeff Seaver / EPA</u>	<u>6/18/14</u>	<u>1055</u>	<u>[Signature]</u>	<u>6/18/14</u>	<u>1055</u>	

**ORIGINAL**

SAMPLER NAME AND SIGNATURE: [Signature]  
 PRINT Name of SAMPLER: JEFF SEAVER  
 SIGNATURE of SAMPLER: [Signature]  
 DATE Signed (MM/DD/YY): 6/17/14

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.  
F-ALL-Q-020rev.07, 15-May-2007

July 03, 2014

Bryon Dahlgren  
AECOM  
10 Patewood Drive, Bldg 6  
Suite 500  
Greenville, SC 29615

RE: Project: CNA / SPARTANBURG  
Pace Project No.: 92204810

Dear Bryon Dahlgren:

Enclosed are the analytical results for sample(s) received by the laboratory between June 10, 2014 and June 11, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin  
kevin.godwin@pacelabs.com  
Project Manager

Enclosures

cc: Aynsley Zollinger, AECOM



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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## CERTIFICATIONS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

---

### Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
West Virginia Certification #: 357  
Virginia/VELAP Certification #: 460221

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### Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
Massachusetts Certification #: M-NC030  
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40  
South Carolina Certification #: 99030001  
West Virginia Certification #: 356  
Virginia/VELAP Certification #: 460222

---

### Greenwood Certification IDs

816 Durst Avenue East, Greenwood, SC 29649  
South Carolina Laboratory ID #: 24562  
North Carolina Division of Water Resources Certification  
number 25

Florida Certification number E87633  
Virginia VELAP ID: 460250  
Asbestos NVLAP accreditation: 101410-0

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: CNA / SPARTANBURG  
Pace Project No.: 92204810

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92204810001	MW-136	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92204810002	DW-1	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92204810003	MW-128	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92204810004	MW-122	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92204810005	RW-123	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92204810006	MW-124	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92204810007	MW-126	EPA 9056A	CDC	5	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: CNA / SPARTANBURG  
Pace Project No.: 92204810

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
<b>92204810008</b>	<b>RW-127</b>	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
<b>92204810009</b>	<b>RW-137</b>	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
<b>92204810010</b>	<b>RW-139</b>	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
<b>92204810011</b>	<b>MW-138</b>	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
<b>92204810012</b>	<b>TRIP BLANK</b>	EPA 8260	NU1	53	PASI-C
<b>92204810013</b>	<b>RW-110</b>	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92204810014	RW-111	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92204810015	MW-116	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92204810016	MW-112	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92204810017	RW-113	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92204810018	RW-115	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92204810019	MW-114	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92204810020	DW-3	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92204810021	SW-12	EPA 8270	BPJ	5	PASI-C
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92204810022	MW-102	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92204810023	RW-83A	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92204810024	RW-84	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92204810025	MW-81	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92204810026	MW-41	EPA 8260B Mod.	DLK	3	PASI-C
92204810027	RW-08	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: MW-136	Lab ID: 92204810001	Collected: 06/09/14 15:25	Received: 06/10/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	11.7 mg/L		1.0	1		06/11/14 14:27	16887-00-6	
Nitrate as N	0.37 mg/L		0.10	1		06/11/14 14:27	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/11/14 14:27	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/11/14 14:27		
Sulfate	ND mg/L		1.0	1		06/11/14 14:27	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 13:42	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 13:42	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 13:42	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 13:42	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/19/14 13:42	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	73.8 ug/L		5.0	1	06/12/14 12:53	06/12/14 22:02	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/12/14 16:31	67-64-1	
Benzene	ND ug/L		5.0	1		06/12/14 16:31	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/12/14 16:31	75-27-4	
Bromoform	ND ug/L		5.0	1		06/12/14 16:31	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/12/14 16:31	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/12/14 16:31	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/12/14 16:31	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/12/14 16:31	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/12/14 16:31	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/12/14 16:31	75-00-3	
Chloroform	ND ug/L		5.0	1		06/12/14 16:31	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/12/14 16:31	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/12/14 16:31	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/12/14 16:31	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/12/14 16:31	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/12/14 16:31	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 16:31	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 16:31	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 16:31	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/12/14 16:31	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/12/14 16:31	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/12/14 16:31	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/12/14 16:31	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 16:31	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 16:31	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/12/14 16:31	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 16:31	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 16:31	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/12/14 16:31	100-41-4	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: MW-136	Lab ID: 92204810001	Collected: 06/09/14 15:25	Received: 06/10/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND ug/L		10.0	1		06/12/14 16:31	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/12/14 16:31	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/12/14 16:31	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/12/14 16:31	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/12/14 16:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/12/14 16:31	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/12/14 16:31	1634-04-4	
Styrene	ND ug/L		5.0	1		06/12/14 16:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/12/14 16:31	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/12/14 16:31	127-18-4	
Toluene	ND ug/L		5.0	1		06/12/14 16:31	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/12/14 16:31	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/12/14 16:31	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/12/14 16:31	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/12/14 16:31	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/12/14 16:31	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/12/14 16:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/12/14 16:31	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/12/14 16:31	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/12/14 16:31	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/12/14 16:31	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101 %		70-130	1		06/12/14 16:31	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/12/14 16:31	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/12/14 16:31	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	11.4 mg/L		5.0	1		06/17/14 11:15		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/12/14 11:30	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: DW-1	Lab ID: 92204810002	Collected: 06/09/14 15:30	Received: 06/10/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	11.7 mg/L		1.0	1		06/11/14 14:58	16887-00-6	
Nitrate as N	0.37 mg/L		0.10	1		06/11/14 14:58	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/11/14 14:58	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/11/14 14:58		
Sulfate	ND mg/L		1.0	1		06/11/14 14:58	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 14:10	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 14:10	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 14:10	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 14:10	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/19/14 14:10	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	70.3 ug/L		5.0	1	06/12/14 12:53	06/12/14 22:05	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/12/14 16:47	67-64-1	
Benzene	ND ug/L		5.0	1		06/12/14 16:47	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/12/14 16:47	75-27-4	
Bromoform	ND ug/L		5.0	1		06/12/14 16:47	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/12/14 16:47	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/12/14 16:47	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/12/14 16:47	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/12/14 16:47	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/12/14 16:47	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/12/14 16:47	75-00-3	
Chloroform	ND ug/L		5.0	1		06/12/14 16:47	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/12/14 16:47	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/12/14 16:47	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/12/14 16:47	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/12/14 16:47	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/12/14 16:47	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 16:47	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 16:47	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 16:47	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/12/14 16:47	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/12/14 16:47	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/12/14 16:47	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/12/14 16:47	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 16:47	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 16:47	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/12/14 16:47	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 16:47	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 16:47	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/12/14 16:47	100-41-4	

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### ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: DW-1	Lab ID: 92204810002	Collected: 06/09/14 15:30	Received: 06/10/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND ug/L		10.0	1		06/12/14 16:47	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/12/14 16:47	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/12/14 16:47	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/12/14 16:47	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/12/14 16:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/12/14 16:47	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/12/14 16:47	1634-04-4	
Styrene	ND ug/L		5.0	1		06/12/14 16:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/12/14 16:47	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/12/14 16:47	127-18-4	
Toluene	ND ug/L		5.0	1		06/12/14 16:47	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/12/14 16:47	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/12/14 16:47	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/12/14 16:47	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/12/14 16:47	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/12/14 16:47	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/12/14 16:47	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/12/14 16:47	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/12/14 16:47	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/12/14 16:47	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/12/14 16:47	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99 %		70-130	1		06/12/14 16:47	460-00-4	
1,2-Dichloroethane-d4 (S)	101 %		70-130	1		06/12/14 16:47	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		06/12/14 16:47	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	11.6 mg/L		5.0	1		06/17/14 11:26		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/12/14 11:30	18496-25-8	

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### ANALYTICAL RESULTS

Project: CNA / SPARTANBURG  
Pace Project No.: 92204810

Sample: MW-128	Lab ID: 92204810003	Collected: 06/09/14 15:00	Received: 06/10/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	ND mg/L		1.0	1		06/11/14 13:56	16887-00-6	
Nitrate as N	2.0 mg/L		0.10	1		06/11/14 13:56	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/11/14 13:56	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/11/14 13:56		M1
Sulfate	ND mg/L		1.0	1		06/11/14 13:56	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 14:38	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 14:38	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 14:38	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 14:38	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/19/14 14:38	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	16.7 ug/L		5.0	1	06/12/14 12:53	06/12/14 22:08	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/12/14 17:03	67-64-1	
Benzene	ND ug/L		5.0	1		06/12/14 17:03	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/12/14 17:03	75-27-4	
Bromoform	ND ug/L		5.0	1		06/12/14 17:03	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/12/14 17:03	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/12/14 17:03	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/12/14 17:03	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/12/14 17:03	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/12/14 17:03	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/12/14 17:03	75-00-3	
Chloroform	5.2 ug/L		5.0	1		06/12/14 17:03	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/12/14 17:03	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/12/14 17:03	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/12/14 17:03	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/12/14 17:03	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/12/14 17:03	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 17:03	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 17:03	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 17:03	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/12/14 17:03	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/12/14 17:03	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/12/14 17:03	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/12/14 17:03	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 17:03	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 17:03	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/12/14 17:03	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 17:03	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 17:03	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/12/14 17:03	100-41-4	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: MW-128	Lab ID: 92204810003	Collected: 06/09/14 15:00	Received: 06/10/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND ug/L		10.0	1		06/12/14 17:03	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/12/14 17:03	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/12/14 17:03	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/12/14 17:03	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/12/14 17:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/12/14 17:03	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/12/14 17:03	1634-04-4	
Styrene	ND ug/L		5.0	1		06/12/14 17:03	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/12/14 17:03	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/12/14 17:03	127-18-4	
Toluene	ND ug/L		5.0	1		06/12/14 17:03	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/12/14 17:03	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/12/14 17:03	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/12/14 17:03	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/12/14 17:03	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/12/14 17:03	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/12/14 17:03	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/12/14 17:03	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/12/14 17:03	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/12/14 17:03	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/12/14 17:03	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99 %		70-130	1		06/12/14 17:03	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		06/12/14 17:03	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/12/14 17:03	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	ND mg/L		5.0	1		06/17/14 10:47		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/12/14 11:30	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: MW-122	Lab ID: 92204810004	Collected: 06/09/14 14:40	Received: 06/10/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	3.4 mg/L		1.0	1		06/11/14 13:26	16887-00-6	
Nitrate as N	1.3 mg/L		0.10	1		06/11/14 13:26	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/11/14 13:26	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/11/14 13:26		
Sulfate	ND mg/L		1.0	1		06/11/14 13:26	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 16:10	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 16:10	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 16:10	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 16:10	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/19/14 16:10	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	569 ug/L		5.0	1	06/12/14 12:53	06/12/14 22:26	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/12/14 17:18	67-64-1	
Benzene	ND ug/L		5.0	1		06/12/14 17:18	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/12/14 17:18	75-27-4	
Bromoform	ND ug/L		5.0	1		06/12/14 17:18	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/12/14 17:18	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/12/14 17:18	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/12/14 17:18	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/12/14 17:18	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/12/14 17:18	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/12/14 17:18	75-00-3	
Chloroform	23.6 ug/L		5.0	1		06/12/14 17:18	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/12/14 17:18	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/12/14 17:18	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/12/14 17:18	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/12/14 17:18	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/12/14 17:18	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 17:18	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 17:18	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 17:18	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/12/14 17:18	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/12/14 17:18	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/12/14 17:18	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/12/14 17:18	75-35-4	
cis-1,2-Dichloroethene	15.7 ug/L		5.0	1		06/12/14 17:18	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 17:18	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/12/14 17:18	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 17:18	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 17:18	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/12/14 17:18	100-41-4	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG  
Pace Project No.: 92204810

<b>Sample: MW-122</b>		<b>Lab ID: 92204810004</b>	Collected: 06/09/14 14:40	Received: 06/10/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND	ug/L	10.0	1		06/12/14 17:18	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/12/14 17:18	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/12/14 17:18	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/12/14 17:18	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/12/14 17:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/12/14 17:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/12/14 17:18	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/12/14 17:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/12/14 17:18	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/12/14 17:18	127-18-4	
Toluene	ND	ug/L	5.0	1		06/12/14 17:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/12/14 17:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/12/14 17:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/12/14 17:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/12/14 17:18	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/12/14 17:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/12/14 17:18	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/12/14 17:18	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/12/14 17:18	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/12/14 17:18	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/12/14 17:18	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100 %		70-130	1		06/12/14 17:18	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/12/14 17:18	17060-07-0	
Toluene-d8 (S)	101 %		70-130	1		06/12/14 17:18	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	21.6	mg/L	5.0	1		06/17/14 11:37		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND	mg/L	0.10	1		06/12/14 11:30	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: RW-123	Lab ID: 92204810005	Collected: 06/09/14 15:50	Received: 06/10/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	2.3 mg/L		1.0	1		06/11/14 15:28	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/11/14 15:28	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/11/14 15:28	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/11/14 15:28		
Sulfate	4.0 mg/L		1.0	1		06/11/14 15:28	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	4.8 mg/L		1.0	1		06/19/14 16:39	7440-44-0	
Total Organic Carbon	4.9 mg/L		1.0	1		06/19/14 16:39	7440-44-0	
Total Organic Carbon	4.9 mg/L		1.0	1		06/19/14 16:39	7440-44-0	
Total Organic Carbon	4.8 mg/L		1.0	1		06/19/14 16:39	7440-44-0	
Mean Total Organic Carbon	4.8 mg/L		1.0	1		06/19/14 16:39	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	75.7 ug/L		5.0	1	06/12/14 12:53	06/12/14 22:29	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	25.9 ug/L		25.0	1		06/12/14 17:34	67-64-1	
Benzene	ND ug/L		5.0	1		06/12/14 17:34	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/12/14 17:34	75-27-4	
Bromoform	ND ug/L		5.0	1		06/12/14 17:34	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/12/14 17:34	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/12/14 17:34	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/12/14 17:34	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/12/14 17:34	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/12/14 17:34	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/12/14 17:34	75-00-3	
Chloroform	10.1 ug/L		5.0	1		06/12/14 17:34	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/12/14 17:34	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/12/14 17:34	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/12/14 17:34	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/12/14 17:34	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/12/14 17:34	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 17:34	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 17:34	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 17:34	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/12/14 17:34	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/12/14 17:34	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/12/14 17:34	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/12/14 17:34	75-35-4	
cis-1,2-Dichloroethene	5.1 ug/L		5.0	1		06/12/14 17:34	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 17:34	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/12/14 17:34	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 17:34	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 17:34	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/12/14 17:34	100-41-4	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

<b>Sample: RW-123</b>		<b>Lab ID: 92204810005</b>	Collected: 06/09/14 15:50	Received: 06/10/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND	ug/L	10.0	1		06/12/14 17:34	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/12/14 17:34	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/12/14 17:34	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/12/14 17:34	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/12/14 17:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/12/14 17:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/12/14 17:34	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/12/14 17:34	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/12/14 17:34	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/12/14 17:34	127-18-4	
Toluene	ND	ug/L	5.0	1		06/12/14 17:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/12/14 17:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/12/14 17:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/12/14 17:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/12/14 17:34	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/12/14 17:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/12/14 17:34	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/12/14 17:34	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/12/14 17:34	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/12/14 17:34	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/12/14 17:34	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101	%	70-130	1		06/12/14 17:34	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		06/12/14 17:34	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/12/14 17:34	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	<b>87.0</b>	mg/L	5.0	1		06/17/14 11:47		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND	mg/L	0.10	1		06/12/14 11:30	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: MW-124	Lab ID: 92204810006	Collected: 06/09/14 17:35	Received: 06/10/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	7.1 mg/L		1.0	1		06/11/14 17:00	16887-00-6	
Nitrate as N	3.2 mg/L		0.10	1		06/11/14 17:00	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/11/14 17:00	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/11/14 17:00		
Sulfate	ND mg/L		1.0	1		06/11/14 17:00	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 17:06	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 17:06	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 17:06	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 17:06	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/19/14 17:06	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	23.1 ug/L		5.0	1	06/12/14 12:53	06/12/14 22:33	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/12/14 17:50	67-64-1	
Benzene	ND ug/L		5.0	1		06/12/14 17:50	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/12/14 17:50	75-27-4	
Bromoform	ND ug/L		5.0	1		06/12/14 17:50	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/12/14 17:50	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/12/14 17:50	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/12/14 17:50	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/12/14 17:50	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/12/14 17:50	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/12/14 17:50	75-00-3	
Chloroform	550 ug/L		25.0	5		06/13/14 12:55	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/12/14 17:50	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/12/14 17:50	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/12/14 17:50	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/12/14 17:50	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/12/14 17:50	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 17:50	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 17:50	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 17:50	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/12/14 17:50	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/12/14 17:50	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/12/14 17:50	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/12/14 17:50	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 17:50	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 17:50	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/12/14 17:50	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 17:50	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 17:50	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/12/14 17:50	100-41-4	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: MW-124		Lab ID: 92204810006	Collected: 06/09/14 17:35	Received: 06/10/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND	ug/L	10.0	1		06/12/14 17:50	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/12/14 17:50	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/12/14 17:50	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/12/14 17:50	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/12/14 17:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/12/14 17:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/12/14 17:50	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/12/14 17:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/12/14 17:50	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/12/14 17:50	127-18-4	
Toluene	ND	ug/L	5.0	1		06/12/14 17:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/12/14 17:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/12/14 17:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/12/14 17:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/12/14 17:50	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/12/14 17:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/12/14 17:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/12/14 17:50	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/12/14 17:50	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/12/14 17:50	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/12/14 17:50	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100 %		70-130	1		06/12/14 17:50	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/12/14 17:50	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/12/14 17:50	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1		06/17/14 11:57		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND	mg/L	0.10	1		06/12/14 11:30	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: MW-126	Lab ID: 92204810007	Collected: 06/09/14 18:45	Received: 06/10/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	12.8 mg/L		1.0	1		06/11/14 17:31	16887-00-6	
Nitrate as N	2.8 mg/L		0.10	1		06/11/14 17:31	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/11/14 17:31	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/11/14 17:31		
Sulfate	ND mg/L		1.0	1		06/11/14 17:31	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 17:34	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 17:34	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 17:34	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 17:34	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/19/14 17:34	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	124 ug/L		5.0	1	06/12/14 12:53	06/12/14 22:36	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/12/14 19:39	67-64-1	
Benzene	ND ug/L		5.0	1		06/12/14 19:39	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/12/14 19:39	75-27-4	
Bromoform	ND ug/L		5.0	1		06/12/14 19:39	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/12/14 19:39	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/12/14 19:39	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/12/14 19:39	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/12/14 19:39	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/12/14 19:39	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/12/14 19:39	75-00-3	
Chloroform	1700 ug/L		100	20		06/13/14 13:43	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/12/14 19:39	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/12/14 19:39	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/12/14 19:39	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/12/14 19:39	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/12/14 19:39	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 19:39	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 19:39	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 19:39	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/12/14 19:39	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/12/14 19:39	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/12/14 19:39	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/12/14 19:39	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 19:39	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 19:39	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/12/14 19:39	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 19:39	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 19:39	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/12/14 19:39	100-41-4	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG  
Pace Project No.: 92204810

Sample: MW-126		Lab ID: 92204810007	Collected: 06/09/14 18:45	Received: 06/10/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND	ug/L	10.0	1		06/12/14 19:39	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/12/14 19:39	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/12/14 19:39	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/12/14 19:39	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/12/14 19:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/12/14 19:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/12/14 19:39	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/12/14 19:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/12/14 19:39	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/12/14 19:39	127-18-4	
Toluene	ND	ug/L	5.0	1		06/12/14 19:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/12/14 19:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/12/14 19:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/12/14 19:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/12/14 19:39	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/12/14 19:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/12/14 19:39	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/12/14 19:39	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/12/14 19:39	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/12/14 19:39	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/12/14 19:39	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100 %		70-130	1		06/12/14 19:39	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		06/12/14 19:39	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/12/14 19:39	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	5.6	mg/L	5.0	1		06/17/14 12:05		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND	mg/L	0.10	1		06/12/14 11:32	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG  
Pace Project No.: 92204810

Sample: RW-127	Lab ID: 92204810008	Collected: 06/09/14 19:35	Received: 06/10/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	10.6 mg/L		1.0	1		06/11/14 18:01	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/11/14 18:01	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/11/14 18:01	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/11/14 18:01		
Sulfate	9.6 mg/L		1.0	1		06/11/14 18:01	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	1.2 mg/L		1.0	1		06/19/14 18:03	7440-44-0	
Total Organic Carbon	1.2 mg/L		1.0	1		06/19/14 18:03	7440-44-0	
Total Organic Carbon	1.2 mg/L		1.0	1		06/19/14 18:03	7440-44-0	
Total Organic Carbon	1.3 mg/L		1.0	1		06/19/14 18:03	7440-44-0	
Mean Total Organic Carbon	1.2 mg/L		1.0	1		06/19/14 18:03	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	111 ug/L		5.0	1	06/12/14 12:53	06/12/14 22:39	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/12/14 19:55	67-64-1	
Benzene	ND ug/L		5.0	1		06/12/14 19:55	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/12/14 19:55	75-27-4	
Bromoform	ND ug/L		5.0	1		06/12/14 19:55	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/12/14 19:55	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/12/14 19:55	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/12/14 19:55	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/12/14 19:55	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/12/14 19:55	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/12/14 19:55	75-00-3	
Chloroform	1090 ug/L		50.0	10		06/13/14 13:59	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/12/14 19:55	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/12/14 19:55	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/12/14 19:55	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/12/14 19:55	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/12/14 19:55	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 19:55	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 19:55	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 19:55	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/12/14 19:55	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/12/14 19:55	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/12/14 19:55	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/12/14 19:55	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 19:55	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 19:55	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/12/14 19:55	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 19:55	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 19:55	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/12/14 19:55	100-41-4	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

<b>Sample: RW-127</b>		<b>Lab ID: 92204810008</b>	Collected: 06/09/14 19:35	Received: 06/10/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND	ug/L	10.0	1		06/12/14 19:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/12/14 19:55	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/12/14 19:55	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/12/14 19:55	108-87-2	
Methylene Chloride	<b>15.9</b>	ug/L	5.0	1		06/12/14 19:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/12/14 19:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/12/14 19:55	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/12/14 19:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/12/14 19:55	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/12/14 19:55	127-18-4	
Toluene	ND	ug/L	5.0	1		06/12/14 19:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/12/14 19:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/12/14 19:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/12/14 19:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/12/14 19:55	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/12/14 19:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/12/14 19:55	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/12/14 19:55	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/12/14 19:55	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/12/14 19:55	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/12/14 19:55	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101	%	70-130	1		06/12/14 19:55	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		06/12/14 19:55	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		06/12/14 19:55	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	<b>78.8</b>	mg/L	5.0	1		06/17/14 12:16		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND	mg/L	0.10	1		06/12/14 11:32	18496-25-8	

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### ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: RW-137		Lab ID: 92204810009	Collected: 06/09/14 17:30	Received: 06/10/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	5.5 mg/L		1.0	1		06/11/14 15:59	16887-00-6	
Nitrate as N	0.26 mg/L		0.10	1		06/11/14 15:59	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/11/14 15:59	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/11/14 15:59		M1
Sulfate	ND mg/L		1.0	1		06/11/14 15:59	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 21:04	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 21:04	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 21:04	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 21:04	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/19/14 21:04	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	22.1 ug/L		5.0	1	06/12/14 12:53	06/12/14 22:42	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/13/14 01:08	67-64-1	
Benzene	ND ug/L		5.0	1		06/13/14 01:08	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/13/14 01:08	75-27-4	
Bromoform	ND ug/L		5.0	1		06/13/14 01:08	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/13/14 01:08	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/13/14 01:08	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/13/14 01:08	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/13/14 01:08	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/13/14 01:08	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/13/14 01:08	75-00-3	
Chloroform	248 ug/L		12.5	2.5		06/13/14 12:24	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/13/14 01:08	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/13/14 01:08	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/13/14 01:08	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/13/14 01:08	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/13/14 01:08	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/13/14 01:08	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/13/14 01:08	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/13/14 01:08	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/13/14 01:08	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/13/14 01:08	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/13/14 01:08	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/13/14 01:08	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/13/14 01:08	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/13/14 01:08	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/13/14 01:08	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/13/14 01:08	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/13/14 01:08	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/13/14 01:08	100-41-4	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

<b>Sample: RW-137</b>		<b>Lab ID: 92204810009</b>	Collected: 06/09/14 17:30	Received: 06/10/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND	ug/L	10.0	1		06/13/14 01:08	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/13/14 01:08	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/13/14 01:08	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/13/14 01:08	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/13/14 01:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/13/14 01:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/13/14 01:08	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/13/14 01:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/13/14 01:08	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/13/14 01:08	127-18-4	
Toluene	ND	ug/L	5.0	1		06/13/14 01:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/13/14 01:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/13/14 01:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/13/14 01:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/13/14 01:08	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/13/14 01:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/13/14 01:08	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/13/14 01:08	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/13/14 01:08	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/13/14 01:08	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/13/14 01:08	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101 %		70-130	1		06/13/14 01:08	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/13/14 01:08	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/13/14 01:08	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	57.1	mg/L	5.0	1		06/17/14 13:04		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND	mg/L	0.10	1		06/12/14 11:32	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: RW-139		Lab ID: 92204810010	Collected: 06/09/14 18:30	Received: 06/10/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	3.5 mg/L		1.0	1		06/11/14 16:29	16887-00-6	
Nitrate as N	0.66 mg/L		0.10	1		06/11/14 16:29	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/11/14 16:29	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/11/14 16:29		
Sulfate	ND mg/L		1.0	1		06/11/14 16:29	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 18:31	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 18:31	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 18:31	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 18:31	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/19/14 18:31	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	30.1 ug/L		5.0	1	06/12/14 12:53	06/12/14 23:00	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/12/14 18:05	67-64-1	
Benzene	ND ug/L		5.0	1		06/12/14 18:05	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/12/14 18:05	75-27-4	
Bromoform	ND ug/L		5.0	1		06/12/14 18:05	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/12/14 18:05	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/12/14 18:05	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/12/14 18:05	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/12/14 18:05	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/12/14 18:05	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/12/14 18:05	75-00-3	
Chloroform	899 ug/L		50.0	10		06/13/14 13:11	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/12/14 18:05	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/12/14 18:05	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/12/14 18:05	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/12/14 18:05	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/12/14 18:05	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 18:05	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 18:05	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 18:05	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/12/14 18:05	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/12/14 18:05	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/12/14 18:05	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/12/14 18:05	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 18:05	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 18:05	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/12/14 18:05	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 18:05	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 18:05	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/12/14 18:05	100-41-4	

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### ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: RW-139	Lab ID: 92204810010	Collected: 06/09/14 18:30	Received: 06/10/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND ug/L		10.0	1		06/12/14 18:05	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/12/14 18:05	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/12/14 18:05	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/12/14 18:05	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/12/14 18:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/12/14 18:05	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/12/14 18:05	1634-04-4	
Styrene	ND ug/L		5.0	1		06/12/14 18:05	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/12/14 18:05	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/12/14 18:05	127-18-4	
Toluene	ND ug/L		5.0	1		06/12/14 18:05	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/12/14 18:05	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/12/14 18:05	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/12/14 18:05	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/12/14 18:05	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/12/14 18:05	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/12/14 18:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/12/14 18:05	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/12/14 18:05	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/12/14 18:05	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/12/14 18:05	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102 %		70-130	1		06/12/14 18:05	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		06/12/14 18:05	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/12/14 18:05	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	52.3 mg/L		5.0	1		06/17/14 12:25		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/12/14 11:32	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG  
Pace Project No.: 92204810

Sample: MW-138	Lab ID: 92204810011	Collected: 06/09/14 19:40	Received: 06/10/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	2.3 mg/L		1.0	1		06/11/14 19:33	16887-00-6	
Nitrate as N	0.82 mg/L		0.10	1		06/11/14 19:33	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/11/14 19:33	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/11/14 19:33		
Sulfate	ND mg/L		1.0	1		06/11/14 19:33	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 18:58	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 18:58	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 18:58	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 18:58	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/19/14 18:58	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	ND ug/L		5.0	1	06/12/14 12:53	06/12/14 23:03	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/12/14 18:21	67-64-1	
Benzene	ND ug/L		5.0	1		06/12/14 18:21	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/12/14 18:21	75-27-4	
Bromoform	ND ug/L		5.0	1		06/12/14 18:21	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/12/14 18:21	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/12/14 18:21	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/12/14 18:21	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/12/14 18:21	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/12/14 18:21	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/12/14 18:21	75-00-3	
Chloroform	169 ug/L		5.0	1		06/12/14 18:21	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/12/14 18:21	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/12/14 18:21	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/12/14 18:21	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/12/14 18:21	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/12/14 18:21	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 18:21	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 18:21	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 18:21	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/12/14 18:21	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/12/14 18:21	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/12/14 18:21	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/12/14 18:21	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 18:21	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 18:21	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/12/14 18:21	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 18:21	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 18:21	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/12/14 18:21	100-41-4	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG  
Pace Project No.: 92204810

Sample: MW-138	Lab ID: 92204810011	Collected: 06/09/14 19:40	Received: 06/10/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND ug/L		10.0	1		06/12/14 18:21	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/12/14 18:21	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/12/14 18:21	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/12/14 18:21	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/12/14 18:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/12/14 18:21	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/12/14 18:21	1634-04-4	
Styrene	ND ug/L		5.0	1		06/12/14 18:21	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/12/14 18:21	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/12/14 18:21	127-18-4	
Toluene	ND ug/L		5.0	1		06/12/14 18:21	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/12/14 18:21	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/12/14 18:21	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/12/14 18:21	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/12/14 18:21	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/12/14 18:21	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/12/14 18:21	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/12/14 18:21	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/12/14 18:21	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/12/14 18:21	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/12/14 18:21	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99 %		70-130	1		06/12/14 18:21	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130	1		06/12/14 18:21	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		06/12/14 18:21	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	8.2 mg/L		5.0	1		06/17/14 12:37		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/12/14 11:32	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: TRIP BLANK		Lab ID: 92204810012	Collected: 06/09/14 00:00	Received: 06/10/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		06/12/14 16:16	67-64-1	
Benzene	ND	ug/L	5.0	1		06/12/14 16:16	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/12/14 16:16	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/12/14 16:16	75-25-2	
Bromomethane	ND	ug/L	10.0	1		06/12/14 16:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/12/14 16:16	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/12/14 16:16	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/12/14 16:16	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/12/14 16:16	108-90-7	
Chloroethane	ND	ug/L	10.0	1		06/12/14 16:16	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/12/14 16:16	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/12/14 16:16	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		06/12/14 16:16	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/12/14 16:16	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/12/14 16:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/12/14 16:16	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/12/14 16:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/12/14 16:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/12/14 16:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/12/14 16:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/12/14 16:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/12/14 16:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/12/14 16:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/12/14 16:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/12/14 16:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/12/14 16:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/12/14 16:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/12/14 16:16	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/12/14 16:16	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/12/14 16:16	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/12/14 16:16	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/12/14 16:16	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/12/14 16:16	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/12/14 16:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/12/14 16:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/12/14 16:16	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/12/14 16:16	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/12/14 16:16	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/12/14 16:16	127-18-4	
Toluene	ND	ug/L	5.0	1		06/12/14 16:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/12/14 16:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/12/14 16:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/12/14 16:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/12/14 16:16	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/12/14 16:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/12/14 16:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/12/14 16:16	76-13-1	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

<b>Sample: TRIP BLANK</b>		<b>Lab ID: 92204810012</b>	Collected: 06/09/14 00:00	Received: 06/10/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Vinyl acetate	ND ug/L		10.0	1		06/12/14 16:16	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/12/14 16:16	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/12/14 16:16	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100 %		70-130	1		06/12/14 16:16	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		06/12/14 16:16	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/12/14 16:16	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: RW-110	Lab ID: 92204810013	Collected: 06/10/14 10:30	Received: 06/11/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	2.7 mg/L		1.0	1		06/11/14 23:08	16887-00-6	
Nitrate as N	1.3 mg/L		0.10	1		06/11/14 23:08	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/11/14 23:08	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/11/14 23:08		
Sulfate	9.7 mg/L		1.0	1		06/11/14 23:08	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 22:36	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 22:36	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 22:36	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 22:36	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/19/14 22:36	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	6.1 ug/L		5.0	1	06/12/14 12:53	06/12/14 23:07	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/12/14 18:37	67-64-1	
Benzene	ND ug/L		5.0	1		06/12/14 18:37	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/12/14 18:37	75-27-4	
Bromoform	ND ug/L		5.0	1		06/12/14 18:37	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/12/14 18:37	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/12/14 18:37	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/12/14 18:37	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/12/14 18:37	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/12/14 18:37	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/12/14 18:37	75-00-3	
Chloroform	ND ug/L		5.0	1		06/12/14 18:37	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/12/14 18:37	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/12/14 18:37	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/12/14 18:37	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/12/14 18:37	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/12/14 18:37	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 18:37	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 18:37	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 18:37	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/12/14 18:37	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/12/14 18:37	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/12/14 18:37	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/12/14 18:37	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 18:37	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 18:37	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/12/14 18:37	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 18:37	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 18:37	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/12/14 18:37	100-41-4	

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### ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: RW-110	Lab ID: 92204810013	Collected: 06/10/14 10:30	Received: 06/11/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND ug/L		10.0	1		06/12/14 18:37	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/12/14 18:37	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/12/14 18:37	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/12/14 18:37	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/12/14 18:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/12/14 18:37	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/12/14 18:37	1634-04-4	
Styrene	ND ug/L		5.0	1		06/12/14 18:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/12/14 18:37	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/12/14 18:37	127-18-4	
Toluene	ND ug/L		5.0	1		06/12/14 18:37	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/12/14 18:37	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/12/14 18:37	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/12/14 18:37	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/12/14 18:37	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/12/14 18:37	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/12/14 18:37	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/12/14 18:37	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/12/14 18:37	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/12/14 18:37	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/12/14 18:37	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99 %		70-130	1		06/12/14 18:37	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/12/14 18:37	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/12/14 18:37	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	4.9 ug/L		2.0	1		06/14/14 14:09	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	129 %		50-150	1		06/14/14 14:09	17060-07-0	
Toluene-d8 (S)	73 %		50-150	1		06/14/14 14:09	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	73.7 mg/L		5.0	1		06/17/14 13:39		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/12/14 11:32	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: RW-111	Lab ID: 92204810014	Collected: 06/10/14 11:17	Received: 06/11/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>								
Analytical Method: EPA 9056A								
Chloride	1.3 mg/L		1.0	1		06/11/14 23:38	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/11/14 23:38	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/11/14 23:38	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/11/14 23:38		
Sulfate	10.5 mg/L		1.0	1		06/11/14 23:38	14808-79-8	
<b>Total Organic Carbon, GWD</b>								
Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 23:04	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 23:04	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 23:04	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 23:04	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/19/14 23:04	7440-44-0	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	34.1 ug/L		5.0	1	06/12/14 12:53	06/12/14 23:10	7439-96-5	
<b>8260 MSV</b>								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/12/14 18:52	67-64-1	
Benzene	ND ug/L		5.0	1		06/12/14 18:52	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/12/14 18:52	75-27-4	
Bromoform	ND ug/L		5.0	1		06/12/14 18:52	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/12/14 18:52	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/12/14 18:52	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/12/14 18:52	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/12/14 18:52	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/12/14 18:52	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/12/14 18:52	75-00-3	
Chloroform	ND ug/L		5.0	1		06/12/14 18:52	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/12/14 18:52	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/12/14 18:52	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/12/14 18:52	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/12/14 18:52	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/12/14 18:52	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 18:52	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 18:52	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 18:52	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/12/14 18:52	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/12/14 18:52	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/12/14 18:52	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/12/14 18:52	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 18:52	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 18:52	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/12/14 18:52	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 18:52	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 18:52	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/12/14 18:52	100-41-4	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: RW-111	Lab ID: 92204810014	Collected: 06/10/14 11:17	Received: 06/11/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND ug/L		10.0	1		06/12/14 18:52	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/12/14 18:52	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/12/14 18:52	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/12/14 18:52	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/12/14 18:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/12/14 18:52	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/12/14 18:52	1634-04-4	
Styrene	ND ug/L		5.0	1		06/12/14 18:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/12/14 18:52	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/12/14 18:52	127-18-4	
Toluene	ND ug/L		5.0	1		06/12/14 18:52	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/12/14 18:52	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/12/14 18:52	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/12/14 18:52	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/12/14 18:52	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/12/14 18:52	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/12/14 18:52	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/12/14 18:52	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/12/14 18:52	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/12/14 18:52	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/12/14 18:52	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101 %		70-130	1		06/12/14 18:52	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		06/12/14 18:52	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/12/14 18:52	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		06/14/14 14:30	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	125 %		50-150	1		06/14/14 14:30	17060-07-0	
Toluene-d8 (S)	72 %		50-150	1		06/14/14 14:30	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	<b>65.4</b> mg/L		5.0	1		06/17/14 13:51		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/12/14 11:32	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: MW-116	Lab ID: 92204810015	Collected: 06/10/14 13:00	Received: 06/11/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	4.2 mg/L		1.0	1		06/12/14 01:41	16887-00-6	
Nitrate as N	0.75 mg/L		0.10	1		06/12/14 01:41	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/12/14 01:41	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/12/14 01:41		
Sulfate	1.8 mg/L		1.0	1		06/12/14 01:41	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 23:32	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 23:32	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 23:32	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/19/14 23:32	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/19/14 23:32	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	124 ug/L		5.0	1	06/12/14 12:53	06/12/14 23:13	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/12/14 19:08	67-64-1	
Benzene	ND ug/L		5.0	1		06/12/14 19:08	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/12/14 19:08	75-27-4	
Bromoform	ND ug/L		5.0	1		06/12/14 19:08	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/12/14 19:08	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/12/14 19:08	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/12/14 19:08	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/12/14 19:08	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/12/14 19:08	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/12/14 19:08	75-00-3	
Chloroform	919 ug/L		50.0	10		06/13/14 13:27	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/12/14 19:08	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/12/14 19:08	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/12/14 19:08	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/12/14 19:08	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/12/14 19:08	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 19:08	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 19:08	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/12/14 19:08	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/12/14 19:08	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/12/14 19:08	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/12/14 19:08	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/12/14 19:08	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 19:08	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/12/14 19:08	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/12/14 19:08	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 19:08	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/12/14 19:08	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/12/14 19:08	100-41-4	

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### ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: MW-116	Lab ID: 92204810015	Collected: 06/10/14 13:00	Received: 06/11/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND ug/L		10.0	1		06/12/14 19:08	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/12/14 19:08	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/12/14 19:08	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/12/14 19:08	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/12/14 19:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/12/14 19:08	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/12/14 19:08	1634-04-4	
Styrene	ND ug/L		5.0	1		06/12/14 19:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/12/14 19:08	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/12/14 19:08	127-18-4	
Toluene	ND ug/L		5.0	1		06/12/14 19:08	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/12/14 19:08	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/12/14 19:08	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/12/14 19:08	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/12/14 19:08	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/12/14 19:08	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/12/14 19:08	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/12/14 19:08	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/12/14 19:08	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/12/14 19:08	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/12/14 19:08	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	98 %		70-130	1		06/12/14 19:08	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130	1		06/12/14 19:08	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/12/14 19:08	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		06/14/14 14:51	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	131 %		50-150	1		06/14/14 14:51	17060-07-0	
Toluene-d8 (S)	72 %		50-150	1		06/14/14 14:51	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	<b>23.2</b> mg/L		5.0	1		06/17/14 14:00		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/12/14 11:32	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: MW-112	Lab ID: 92204810016	Collected: 06/10/14 12:50	Received: 06/11/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	2.2 mg/L		1.0	1		06/12/14 01:10	16887-00-6	
Nitrate as N	1.8 mg/L		0.10	1		06/12/14 01:10	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/12/14 01:10	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/12/14 01:10		
Sulfate	ND mg/L		1.0	1		06/12/14 01:10	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 00:00	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 00:00	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 00:00	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 00:00	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/20/14 00:00	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	ND ug/L		5.0	1	06/12/14 12:53	06/12/14 23:16	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		250	10		06/13/14 01:23	67-64-1	
Benzene	ND ug/L		50.0	10		06/13/14 01:23	71-43-2	
Bromodichloromethane	ND ug/L		50.0	10		06/13/14 01:23	75-27-4	
Bromoform	ND ug/L		50.0	10		06/13/14 01:23	75-25-2	
Bromomethane	ND ug/L		100	10		06/13/14 01:23	74-83-9	
2-Butanone (MEK)	ND ug/L		100	10		06/13/14 01:23	78-93-3	
Carbon disulfide	ND ug/L		100	10		06/13/14 01:23	75-15-0	
Carbon tetrachloride	ND ug/L		50.0	10		06/13/14 01:23	56-23-5	
Chlorobenzene	ND ug/L		50.0	10		06/13/14 01:23	108-90-7	
Chloroethane	ND ug/L		100	10		06/13/14 01:23	75-00-3	
Chloroform	1470 ug/L		50.0	10		06/13/14 01:23	67-66-3	
Chloromethane	ND ug/L		50.0	10		06/13/14 01:23	74-87-3	
Cyclohexane	ND ug/L		50.0	10		06/13/14 01:23	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		20.0	10		06/13/14 01:23	96-12-8	
Dibromochloromethane	ND ug/L		50.0	10		06/13/14 01:23	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		50.0	10		06/13/14 01:23	106-93-4	
1,2-Dichlorobenzene	ND ug/L		50.0	10		06/13/14 01:23	95-50-1	
1,3-Dichlorobenzene	ND ug/L		50.0	10		06/13/14 01:23	541-73-1	
1,4-Dichlorobenzene	ND ug/L		50.0	10		06/13/14 01:23	106-46-7	
Dichlorodifluoromethane	ND ug/L		50.0	10		06/13/14 01:23	75-71-8	
1,1-Dichloroethane	ND ug/L		50.0	10		06/13/14 01:23	75-34-3	
1,2-Dichloroethane	ND ug/L		50.0	10		06/13/14 01:23	107-06-2	
1,1-Dichloroethene	ND ug/L		50.0	10		06/13/14 01:23	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		50.0	10		06/13/14 01:23	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		50.0	10		06/13/14 01:23	156-60-5	
1,2-Dichloropropane	ND ug/L		50.0	10		06/13/14 01:23	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		50.0	10		06/13/14 01:23	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		50.0	10		06/13/14 01:23	10061-02-6	
Ethylbenzene	ND ug/L		50.0	10		06/13/14 01:23	100-41-4	

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### ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: MW-112	Lab ID: 92204810016	Collected: 06/10/14 12:50	Received: 06/11/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND ug/L		100	10		06/13/14 01:23	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		50.0	10		06/13/14 01:23	98-82-8	
Methyl acetate	ND ug/L		100	10		06/13/14 01:23	79-20-9	
Methylcyclohexane	ND ug/L		100	10		06/13/14 01:23	108-87-2	
Methylene Chloride	ND ug/L		50.0	10		06/13/14 01:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		100	10		06/13/14 01:23	108-10-1	
Methyl-tert-butyl ether	ND ug/L		50.0	10		06/13/14 01:23	1634-04-4	
Styrene	ND ug/L		50.0	10		06/13/14 01:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		50.0	10		06/13/14 01:23	79-34-5	
Tetrachloroethene	ND ug/L		50.0	10		06/13/14 01:23	127-18-4	
Toluene	ND ug/L		50.0	10		06/13/14 01:23	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		50.0	10		06/13/14 01:23	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		50.0	10		06/13/14 01:23	120-82-1	
1,1,1-Trichloroethane	ND ug/L		50.0	10		06/13/14 01:23	71-55-6	
1,1,2-Trichloroethane	ND ug/L		50.0	10		06/13/14 01:23	79-00-5	
Trichloroethene	ND ug/L		50.0	10		06/13/14 01:23	79-01-6	
Trichlorofluoromethane	ND ug/L		100	10		06/13/14 01:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		50.0	10		06/13/14 01:23	76-13-1	
Vinyl acetate	ND ug/L		100	10		06/13/14 01:23	108-05-4	
Vinyl chloride	ND ug/L		50.0	10		06/13/14 01:23	75-01-4	
Xylene (Total)	ND ug/L		100	10		06/13/14 01:23	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100 %		70-130	10		06/13/14 01:23	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130	10		06/13/14 01:23	17060-07-0	
Toluene-d8 (S)	100 %		70-130	10		06/13/14 01:23	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		06/14/14 15:12	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	128 %		50-150	1		06/14/14 15:12	17060-07-0	
Toluene-d8 (S)	72 %		50-150	1		06/14/14 15:12	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	<b>20.3</b> mg/L		5.0	1		06/17/14 14:10		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/12/14 11:32	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: RW-113	Lab ID: 92204810017	Collected: 06/10/14 14:25	Received: 06/11/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	1.6 mg/L		1.0	1		06/12/14 02:12	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/12/14 02:12	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/12/14 02:12	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/12/14 02:12		
Sulfate	8.5 mg/L		1.0	1		06/12/14 02:12	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 00:28	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 00:28	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 00:28	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 00:28	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/20/14 00:28	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	40.1 ug/L		5.0	1	06/12/14 12:53	06/12/14 23:19	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/13/14 00:21	67-64-1	
Benzene	ND ug/L		5.0	1		06/13/14 00:21	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/13/14 00:21	75-27-4	
Bromoform	ND ug/L		5.0	1		06/13/14 00:21	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/13/14 00:21	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/13/14 00:21	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/13/14 00:21	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/13/14 00:21	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/13/14 00:21	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/13/14 00:21	75-00-3	
Chloroform	ND ug/L		5.0	1		06/13/14 00:21	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/13/14 00:21	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/13/14 00:21	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/13/14 00:21	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/13/14 00:21	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/13/14 00:21	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/13/14 00:21	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/13/14 00:21	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/13/14 00:21	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/13/14 00:21	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/13/14 00:21	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/13/14 00:21	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/13/14 00:21	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/13/14 00:21	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/13/14 00:21	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/13/14 00:21	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/13/14 00:21	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/13/14 00:21	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/13/14 00:21	100-41-4	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG  
Pace Project No.: 92204810

Sample: RW-113	Lab ID: 92204810017	Collected: 06/10/14 14:25	Received: 06/11/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND ug/L		10.0	1		06/13/14 00:21	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/13/14 00:21	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/13/14 00:21	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/13/14 00:21	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/13/14 00:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/13/14 00:21	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/13/14 00:21	1634-04-4	
Styrene	ND ug/L		5.0	1		06/13/14 00:21	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/13/14 00:21	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/13/14 00:21	127-18-4	
Toluene	ND ug/L		5.0	1		06/13/14 00:21	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/13/14 00:21	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/13/14 00:21	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/13/14 00:21	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/13/14 00:21	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/13/14 00:21	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/13/14 00:21	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/13/14 00:21	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/13/14 00:21	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/13/14 00:21	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/13/14 00:21	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102 %		70-130	1		06/13/14 00:21	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130	1		06/13/14 00:21	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/13/14 00:21	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		06/14/14 15:33	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	119 %		50-150	1		06/14/14 15:33	17060-07-0	
Toluene-d8 (S)	72 %		50-150	1		06/14/14 15:33	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	<b>68.3</b> mg/L		5.0	1		06/17/14 14:21		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/12/14 11:32	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: RW-115	Lab ID: 92204810018	Collected: 06/10/14 15:45	Received: 06/11/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	5.8 mg/L		1.0	1		06/12/14 02:42	16887-00-6	
Nitrate as N	1.8 mg/L		0.10	1		06/12/14 02:42	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/12/14 02:42	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/12/14 02:42		
Sulfate	2.8 mg/L		1.0	1		06/12/14 02:42	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 00:56	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 00:56	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 00:56	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 00:56	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/20/14 00:56	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	17.4 ug/L		5.0	1	06/12/14 12:53	06/12/14 23:22	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		250	10		06/13/14 01:39	67-64-1	
Benzene	ND ug/L		50.0	10		06/13/14 01:39	71-43-2	
Bromodichloromethane	ND ug/L		50.0	10		06/13/14 01:39	75-27-4	
Bromoform	ND ug/L		50.0	10		06/13/14 01:39	75-25-2	
Bromomethane	ND ug/L		100	10		06/13/14 01:39	74-83-9	
2-Butanone (MEK)	ND ug/L		100	10		06/13/14 01:39	78-93-3	
Carbon disulfide	ND ug/L		100	10		06/13/14 01:39	75-15-0	
Carbon tetrachloride	ND ug/L		50.0	10		06/13/14 01:39	56-23-5	
Chlorobenzene	ND ug/L		50.0	10		06/13/14 01:39	108-90-7	
Chloroethane	ND ug/L		100	10		06/13/14 01:39	75-00-3	
Chloroform	2500 ug/L		125	25		06/13/14 12:40	67-66-3	
Chloromethane	ND ug/L		50.0	10		06/13/14 01:39	74-87-3	
Cyclohexane	ND ug/L		50.0	10		06/13/14 01:39	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		20.0	10		06/13/14 01:39	96-12-8	
Dibromochloromethane	ND ug/L		50.0	10		06/13/14 01:39	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		50.0	10		06/13/14 01:39	106-93-4	
1,2-Dichlorobenzene	ND ug/L		50.0	10		06/13/14 01:39	95-50-1	
1,3-Dichlorobenzene	ND ug/L		50.0	10		06/13/14 01:39	541-73-1	
1,4-Dichlorobenzene	ND ug/L		50.0	10		06/13/14 01:39	106-46-7	
Dichlorodifluoromethane	ND ug/L		50.0	10		06/13/14 01:39	75-71-8	
1,1-Dichloroethane	ND ug/L		50.0	10		06/13/14 01:39	75-34-3	
1,2-Dichloroethane	ND ug/L		50.0	10		06/13/14 01:39	107-06-2	
1,1-Dichloroethene	ND ug/L		50.0	10		06/13/14 01:39	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		50.0	10		06/13/14 01:39	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		50.0	10		06/13/14 01:39	156-60-5	
1,2-Dichloropropane	ND ug/L		50.0	10		06/13/14 01:39	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		50.0	10		06/13/14 01:39	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		50.0	10		06/13/14 01:39	10061-02-6	
Ethylbenzene	ND ug/L		50.0	10		06/13/14 01:39	100-41-4	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: RW-115		Lab ID: 92204810018	Collected: 06/10/14 15:45	Received: 06/11/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND	ug/L	100	10		06/13/14 01:39	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	50.0	10		06/13/14 01:39	98-82-8	
Methyl acetate	ND	ug/L	100	10		06/13/14 01:39	79-20-9	
Methylcyclohexane	ND	ug/L	100	10		06/13/14 01:39	108-87-2	
Methylene Chloride	ND	ug/L	50.0	10		06/13/14 01:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	10		06/13/14 01:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	50.0	10		06/13/14 01:39	1634-04-4	
Styrene	ND	ug/L	50.0	10		06/13/14 01:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	10		06/13/14 01:39	79-34-5	
Tetrachloroethene	ND	ug/L	50.0	10		06/13/14 01:39	127-18-4	
Toluene	ND	ug/L	50.0	10		06/13/14 01:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	10		06/13/14 01:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	10		06/13/14 01:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	50.0	10		06/13/14 01:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	50.0	10		06/13/14 01:39	79-00-5	
Trichloroethene	ND	ug/L	50.0	10		06/13/14 01:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	100	10		06/13/14 01:39	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	50.0	10		06/13/14 01:39	76-13-1	
Vinyl acetate	ND	ug/L	100	10		06/13/14 01:39	108-05-4	
Vinyl chloride	ND	ug/L	50.0	10		06/13/14 01:39	75-01-4	
Xylene (Total)	ND	ug/L	100	10		06/13/14 01:39	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102 %		70-130	10		06/13/14 01:39	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	10		06/13/14 01:39	17060-07-0	
Toluene-d8 (S)	100 %		70-130	10		06/13/14 01:39	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		06/14/14 15:55	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	161 %		50-150	1		06/14/14 15:55	17060-07-0	
Toluene-d8 (S)	71 %		50-150	1		06/14/14 15:55	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	<b>47.2</b>	mg/L	5.0	1		06/17/14 14:30		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND	mg/L	0.10	1		06/12/14 11:32	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: MW-114	Lab ID: 92204810019	Collected: 06/10/14 16:40	Received: 06/11/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	6.8 mg/L		1.0	1		06/12/14 03:13	16887-00-6	
Nitrate as N	1.4 mg/L		0.10	1		06/12/14 03:13	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/12/14 03:13	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/12/14 03:13		
Sulfate	ND mg/L		1.0	1		06/12/14 03:13	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 01:24	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 01:24	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 01:24	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 01:24	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/20/14 01:24	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	7.2 ug/L		5.0	1	06/12/14 12:53	06/12/14 23:25	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		250	10		06/13/14 01:55	67-64-1	
Benzene	ND ug/L		50.0	10		06/13/14 01:55	71-43-2	
Bromodichloromethane	ND ug/L		50.0	10		06/13/14 01:55	75-27-4	
Bromoform	ND ug/L		50.0	10		06/13/14 01:55	75-25-2	
Bromomethane	ND ug/L		100	10		06/13/14 01:55	74-83-9	
2-Butanone (MEK)	ND ug/L		100	10		06/13/14 01:55	78-93-3	
Carbon disulfide	ND ug/L		100	10		06/13/14 01:55	75-15-0	
Carbon tetrachloride	ND ug/L		50.0	10		06/13/14 01:55	56-23-5	
Chlorobenzene	ND ug/L		50.0	10		06/13/14 01:55	108-90-7	
Chloroethane	ND ug/L		100	10		06/13/14 01:55	75-00-3	
Chloroform	1280 ug/L		50.0	10		06/13/14 01:55	67-66-3	
Chloromethane	ND ug/L		50.0	10		06/13/14 01:55	74-87-3	
Cyclohexane	ND ug/L		50.0	10		06/13/14 01:55	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		20.0	10		06/13/14 01:55	96-12-8	
Dibromochloromethane	ND ug/L		50.0	10		06/13/14 01:55	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		50.0	10		06/13/14 01:55	106-93-4	
1,2-Dichlorobenzene	ND ug/L		50.0	10		06/13/14 01:55	95-50-1	
1,3-Dichlorobenzene	ND ug/L		50.0	10		06/13/14 01:55	541-73-1	
1,4-Dichlorobenzene	ND ug/L		50.0	10		06/13/14 01:55	106-46-7	
Dichlorodifluoromethane	ND ug/L		50.0	10		06/13/14 01:55	75-71-8	
1,1-Dichloroethane	ND ug/L		50.0	10		06/13/14 01:55	75-34-3	
1,2-Dichloroethane	ND ug/L		50.0	10		06/13/14 01:55	107-06-2	
1,1-Dichloroethene	ND ug/L		50.0	10		06/13/14 01:55	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		50.0	10		06/13/14 01:55	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		50.0	10		06/13/14 01:55	156-60-5	
1,2-Dichloropropane	ND ug/L		50.0	10		06/13/14 01:55	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		50.0	10		06/13/14 01:55	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		50.0	10		06/13/14 01:55	10061-02-6	
Ethylbenzene	ND ug/L		50.0	10		06/13/14 01:55	100-41-4	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: MW-114	Lab ID: 92204810019	Collected: 06/10/14 16:40	Received: 06/11/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND ug/L		100	10		06/13/14 01:55	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		50.0	10		06/13/14 01:55	98-82-8	
Methyl acetate	ND ug/L		100	10		06/13/14 01:55	79-20-9	
Methylcyclohexane	ND ug/L		100	10		06/13/14 01:55	108-87-2	
Methylene Chloride	ND ug/L		50.0	10		06/13/14 01:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		100	10		06/13/14 01:55	108-10-1	
Methyl-tert-butyl ether	ND ug/L		50.0	10		06/13/14 01:55	1634-04-4	
Styrene	ND ug/L		50.0	10		06/13/14 01:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		50.0	10		06/13/14 01:55	79-34-5	
Tetrachloroethene	ND ug/L		50.0	10		06/13/14 01:55	127-18-4	
Toluene	ND ug/L		50.0	10		06/13/14 01:55	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		50.0	10		06/13/14 01:55	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		50.0	10		06/13/14 01:55	120-82-1	
1,1,1-Trichloroethane	ND ug/L		50.0	10		06/13/14 01:55	71-55-6	
1,1,2-Trichloroethane	ND ug/L		50.0	10		06/13/14 01:55	79-00-5	
Trichloroethene	ND ug/L		50.0	10		06/13/14 01:55	79-01-6	
Trichlorofluoromethane	ND ug/L		100	10		06/13/14 01:55	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		50.0	10		06/13/14 01:55	76-13-1	
Vinyl acetate	ND ug/L		100	10		06/13/14 01:55	108-05-4	
Vinyl chloride	ND ug/L		50.0	10		06/13/14 01:55	75-01-4	
Xylene (Total)	ND ug/L		100	10		06/13/14 01:55	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99 %		70-130	10		06/13/14 01:55	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130	10		06/13/14 01:55	17060-07-0	
Toluene-d8 (S)	99 %		70-130	10		06/13/14 01:55	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	2.0 ug/L		2.0	1		06/14/14 16:16	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	134 %		50-150	1		06/14/14 16:16	17060-07-0	
Toluene-d8 (S)	71 %		50-150	1		06/14/14 16:16	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	11.8 mg/L		5.0	1		06/17/14 14:41		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/12/14 11:32	18496-25-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: DW-3	Lab ID: 92204810020	Collected: 06/10/14 17:00	Received: 06/11/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	6.8 mg/L		1.0	1		06/12/14 03:44	16887-00-6	
Nitrate as N	1.4 mg/L		0.10	1		06/12/14 03:44	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/12/14 03:44	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/12/14 03:44		
Sulfate	ND mg/L		1.0	1		06/12/14 03:44	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 01:52	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 01:52	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 01:52	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 01:52	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/20/14 01:52	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	7.3 ug/L		5.0	1	06/12/14 12:53	06/12/14 23:29	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/13/14 00:36	67-64-1	
Benzene	ND ug/L		5.0	1		06/13/14 00:36	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/13/14 00:36	75-27-4	
Bromoform	ND ug/L		5.0	1		06/13/14 00:36	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/13/14 00:36	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/13/14 00:36	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/13/14 00:36	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/13/14 00:36	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/13/14 00:36	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/13/14 00:36	75-00-3	
Chloroform	1220 ug/L		50.0	10		06/13/14 12:08	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/13/14 00:36	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/13/14 00:36	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/13/14 00:36	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/13/14 00:36	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/13/14 00:36	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/13/14 00:36	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/13/14 00:36	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/13/14 00:36	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/13/14 00:36	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/13/14 00:36	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/13/14 00:36	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/13/14 00:36	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/13/14 00:36	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/13/14 00:36	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/13/14 00:36	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/13/14 00:36	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/13/14 00:36	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/13/14 00:36	100-41-4	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG  
Pace Project No.: 92204810

Sample: DW-3	Lab ID: 92204810020	Collected: 06/10/14 17:00	Received: 06/11/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND ug/L		10.0	1		06/13/14 00:36	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/13/14 00:36	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/13/14 00:36	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/13/14 00:36	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/13/14 00:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/13/14 00:36	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/13/14 00:36	1634-04-4	
Styrene	ND ug/L		5.0	1		06/13/14 00:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/13/14 00:36	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/13/14 00:36	127-18-4	
Toluene	ND ug/L		5.0	1		06/13/14 00:36	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/13/14 00:36	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/13/14 00:36	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/13/14 00:36	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/13/14 00:36	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/13/14 00:36	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/13/14 00:36	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/13/14 00:36	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/13/14 00:36	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/13/14 00:36	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/13/14 00:36	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102 %		70-130	1		06/13/14 00:36	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/13/14 00:36	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/13/14 00:36	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		06/14/14 16:37	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	138 %		50-150	1		06/14/14 16:37	17060-07-0	
Toluene-d8 (S)	71 %		50-150	1		06/14/14 16:37	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	12.1 mg/L		5.0	1		06/17/14 14:52		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/12/14 11:32	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: SW-12	Lab ID: 92204810021	Collected: 06/10/14 11:20	Received: 06/11/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/18/14 17:30	06/23/14 23:04	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/18/14 17:30	06/23/14 23:04	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	21 %		21-110	1	06/18/14 17:30	06/23/14 23:04	4165-60-0	H5
2-Fluorobiphenyl (S)	25 %		27-110	1	06/18/14 17:30	06/23/14 23:04	321-60-8	S0
Terphenyl-d14 (S)	41 %		31-107	1	06/18/14 17:30	06/23/14 23:04	1718-51-0	
<b>8260 MSV</b>								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/13/14 00:52	67-64-1	
Benzene	ND ug/L		5.0	1		06/13/14 00:52	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/13/14 00:52	75-27-4	
Bromoform	ND ug/L		5.0	1		06/13/14 00:52	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/13/14 00:52	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/13/14 00:52	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/13/14 00:52	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/13/14 00:52	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/13/14 00:52	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/13/14 00:52	75-00-3	
Chloroform	12.7 ug/L		5.0	1		06/13/14 00:52	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/13/14 00:52	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/13/14 00:52	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/13/14 00:52	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/13/14 00:52	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/13/14 00:52	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/13/14 00:52	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/13/14 00:52	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/13/14 00:52	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/13/14 00:52	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/13/14 00:52	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/13/14 00:52	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/13/14 00:52	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/13/14 00:52	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/13/14 00:52	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/13/14 00:52	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/13/14 00:52	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/13/14 00:52	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/13/14 00:52	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/13/14 00:52	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/13/14 00:52	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/13/14 00:52	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/13/14 00:52	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/13/14 00:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/13/14 00:52	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/13/14 00:52	1634-04-4	
Styrene	ND ug/L		5.0	1		06/13/14 00:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/13/14 00:52	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/13/14 00:52	127-18-4	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: SW-12		Lab ID: 92204810021	Collected: 06/10/14 11:20	Received: 06/11/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Toluene	ND	ug/L	5.0	1		06/13/14 00:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/13/14 00:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/13/14 00:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/13/14 00:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/13/14 00:52	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/13/14 00:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/13/14 00:52	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/13/14 00:52	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/13/14 00:52	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/13/14 00:52	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/13/14 00:52	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102 %		70-130	1		06/13/14 00:52	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		06/13/14 00:52	17060-07-0	
Toluene-d8 (S)	101 %		70-130	1		06/13/14 00:52	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		06/14/14 16:58	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	142 %		50-150	1		06/14/14 16:58	17060-07-0	
Toluene-d8 (S)	71 %		50-150	1		06/14/14 16:58	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: MW-102</b>								
<b>Lab ID: 92204810022</b>								
Collected: 06/10/14 10:20 Received: 06/11/14 07:30 Matrix: Water								
<b>8270 MSSV Semivolatile Organic</b>								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND	ug/L	10.0	1	06/12/14 15:30	06/17/14 12:41	92-52-4	
Diphenyl ether (Phenyl ether)	<b>21.6</b>	ug/L	10.0	1	06/12/14 15:30	06/17/14 12:41	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	24	%	21-110	1	06/12/14 15:30	06/17/14 12:41	4165-60-0	
2-Fluorobiphenyl (S)	29	%	27-110	1	06/12/14 15:30	06/17/14 12:41	321-60-8	
Terphenyl-d14 (S)	43	%	31-107	1	06/12/14 15:30	06/17/14 12:41	1718-51-0	
<b>8260 MSV SIM</b>								
Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	<b>113</b>	ug/L	10.0	5		06/14/14 18:02	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	132	%	50-150	5		06/14/14 18:02	17060-07-0	
Toluene-d8 (S)	70	%	50-150	5		06/14/14 18:02	2037-26-5	

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### ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: RW-83A		Lab ID: 92204810023	Collected: 06/10/14 11:30	Received: 06/11/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/13/14 00:00	06/17/14 20:34	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/13/14 00:00	06/17/14 20:34	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	21 %		21-110	1	06/13/14 00:00	06/17/14 20:34	4165-60-0	
2-Fluorobiphenyl (S)	25 %		27-110	1	06/13/14 00:00	06/17/14 20:34	321-60-8	S0
Terphenyl-d14 (S)	40 %		31-107	1	06/13/14 00:00	06/17/14 20:34	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	4.4 ug/L		2.0	1		06/18/14 20:15	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	125 %		50-150	1		06/18/14 20:15	17060-07-0	
Toluene-d8 (S)	73 %		50-150	1		06/18/14 20:15	2037-26-5	

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### ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: <b>RW-84</b>	Lab ID: <b>92204810024</b>	Collected: 06/10/14 12:45	Received: 06/11/14 07:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/12/14 15:30	06/17/14 13:13	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/12/14 15:30	06/17/14 13:13	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	42 %		21-110	1	06/12/14 15:30	06/17/14 13:13	4165-60-0	
2-Fluorobiphenyl (S)	44 %		27-110	1	06/12/14 15:30	06/17/14 13:13	321-60-8	
Terphenyl-d14 (S)	61 %		31-107	1	06/12/14 15:30	06/17/14 13:13	1718-51-0	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	<b>20.3</b> ug/L		2.0	1		06/16/14 13:32	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97 %		50-150	1		06/16/14 13:32	17060-07-0	
Toluene-d8 (S)	68 %		50-150	1		06/16/14 13:32	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

<b>Sample: MW-81</b>		<b>Lab ID: 92204810025</b>	Collected: 06/10/14 13:55	Received: 06/11/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	<b>1070</b> ug/L		500	50	06/12/14 15:30	06/19/14 16:21	92-52-4	
Diphenyl ether (Phenyl ether)	<b>4110</b> ug/L		500	50	06/12/14 15:30	06/19/14 16:21	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	55 %		21-110	1	06/12/14 15:30	06/17/14 13:45	4165-60-0	
2-Fluorobiphenyl (S)	65 %		27-110	1	06/12/14 15:30	06/17/14 13:45	321-60-8	
Terphenyl-d14 (S)	71 %		31-107	1	06/12/14 15:30	06/17/14 13:45	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>83.4</b> ug/L		4.0	2		06/16/14 13:53	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	128 %		50-150	2		06/16/14 13:53	17060-07-0	
Toluene-d8 (S)	67 %		50-150	2		06/16/14 13:53	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Sample: MW-41		Lab ID: 92204810026	Collected: 06/10/14 15:00	Received: 06/11/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	12.4 ug/L		2.0	1		06/16/14 14:15	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	104 %		50-150	1		06/16/14 14:15	17060-07-0	
Toluene-d8 (S)	67 %		50-150	1		06/16/14 14:15	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

<b>Sample: RW-08</b>		<b>Lab ID: 92204810027</b>	Collected: 06/10/14 15:50	Received: 06/11/14 07:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	<b>321</b> ug/L		200	20	06/12/14 15:30	06/18/14 15:31	92-52-4	
Diphenyl ether (Phenyl ether)	<b>1530</b> ug/L		200	20	06/12/14 15:30	06/18/14 15:31	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	50 %		21-110	1	06/12/14 15:30	06/17/14 14:16	4165-60-0	
2-Fluorobiphenyl (S)	56 %		27-110	1	06/12/14 15:30	06/17/14 14:16	321-60-8	
Terphenyl-d14 (S)	84 %		31-107	1	06/12/14 15:30	06/17/14 14:16	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>105</b> ug/L		4.0	2		06/16/14 14:36	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	133 %		50-150	2		06/16/14 14:36	17060-07-0	
Toluene-d8 (S)	67 %		50-150	2		06/16/14 14:36	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

QC Batch:	GWD/1335	Analysis Method:	EPA 9056A
QC Batch Method:	EPA 9056A	Analysis Description:	9056 IC Anions, GWD
Associated Lab Samples:	92204810001, 92204810002, 92204810003, 92204810004, 92204810005, 92204810006, 92204810007, 92204810008, 92204810009, 92204810010, 92204810011, 92204810013, 92204810014, 92204810015, 92204810016, 92204810017, 92204810018, 92204810019, 92204810020		

METHOD BLANK:	1218721	Matrix:	Water
Associated Lab Samples:	92204810001, 92204810002, 92204810003, 92204810004, 92204810005, 92204810006, 92204810007, 92204810008, 92204810009, 92204810010, 92204810011, 92204810013, 92204810014, 92204810015, 92204810016, 92204810017, 92204810018, 92204810019, 92204810020		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	06/11/14 22:06	
Nitrate as N	mg/L	ND	0.10	06/11/14 22:06	
Nitrite as N	mg/L	ND	0.10	06/11/14 22:06	
Orthophosphate as P	mg/L	ND	0.10	06/11/14 22:06	
Sulfate	mg/L	ND	1.0	06/11/14 22:06	

LABORATORY CONTROL SAMPLE: 1218722						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.3	101	90-110	
Nitrate as N	mg/L	2.5	2.4	98	90-110	
Nitrite as N	mg/L	2.5	2.5	101	90-110	
Orthophosphate as P	mg/L	2.5	2.3	91	90-110	
Sulfate	mg/L	50	49.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1218723												1218724	
Parameter	Units	92204810003		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual	
		Result	Conc.	Spike Conc.	Spike Conc.								
Chloride	mg/L	ND	50	50	50.7	51.1	99	100	90-110	1			
Nitrate as N	mg/L	2.0	2.5	2.5	4.6	4.6	106	106	90-110	0			
Nitrite as N	mg/L	ND	2.5	2.5	2.4	2.4	95	96	90-110	1			
Orthophosphate as P	mg/L	ND	2.5	2.5	2.1	2.1	82	85	90-110	3	M1		
Sulfate	mg/L	ND	50	50	49.1	49.6	98	99	90-110	1			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1218725												1218726	
Parameter	Units	92204810009		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual	
		Result	Conc.	Spike Conc.	Spike Conc.								
Chloride	mg/L	5.5	50	50	54.2	55.0	98	99	90-110	1			
Nitrate as N	mg/L	0.26	2.5	2.5	2.7	2.7	97	99	90-110	2			
Nitrite as N	mg/L	ND	2.5	2.5	2.3	2.4	94	96	90-110	2			
Orthophosphate as P	mg/L	ND	2.5	2.5	2.0	2.0	78	81	90-110	3	M1		

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1218725												1218726	
Parameter	Units	92204810009 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual		
			Spike Conc.	Spike Conc.									
Sulfate	mg/L	ND	50	50	48.6	49.4	96	98	90-110	2			

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG  
Pace Project No.: 92204810

QC Batch: GWD/1358 Analysis Method: EPA 9060A  
QC Batch Method: EPA 9060A Analysis Description: 9060 TOC, GWD  
Associated Lab Samples: 92204810001, 92204810002, 92204810003, 92204810004, 92204810005, 92204810006, 92204810007, 92204810008, 92204810010, 92204810011

METHOD BLANK: 1224675 Matrix: Water  
Associated Lab Samples: 92204810001, 92204810002, 92204810003, 92204810004, 92204810005, 92204810006, 92204810007, 92204810008, 92204810010, 92204810011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	ND	1.0	06/19/14 13:14	
Total Organic Carbon	mg/L	ND	1.0	06/19/14 13:14	
Total Organic Carbon	mg/L	ND	1.0	06/19/14 13:14	
Total Organic Carbon	mg/L	ND	1.0	06/19/14 13:14	
Total Organic Carbon	mg/L	ND	1.0	06/19/14 13:14	

LABORATORY CONTROL SAMPLE: 1224676

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	50	50.3	101	75-125	
Total Organic Carbon	mg/L	50	50.5	101	75-125	
Total Organic Carbon	mg/L	50	50.4	101	75-125	
Total Organic Carbon	mg/L	50	50.1	100	75-125	
Total Organic Carbon	mg/L	50	50.1	100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1224677 1224678

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92204810003 Result	Spike Conc.	Spike Conc.	MS Result					
Mean Total Organic Carbon	mg/L	ND	50	50	51.0	50.7	102	101	75-125	0
Total Organic Carbon	mg/L	ND	50	50	51.1	50.7	102	101	75-125	1
Total Organic Carbon	mg/L	ND	50	50	50.9	50.9	102	102	75-125	0
Total Organic Carbon	mg/L	ND	50	50	50.8	50.5	102	101	75-125	1
Total Organic Carbon	mg/L	ND	50	50	51.1	50.8	102	102	75-125	1

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG  
Pace Project No.: 92204810

QC Batch: GWD/1359 Analysis Method: EPA 9060A  
QC Batch Method: EPA 9060A Analysis Description: 9060 TOC, GWD  
Associated Lab Samples: 92204810009, 92204810013, 92204810014, 92204810015, 92204810016, 92204810017, 92204810018, 92204810019, 92204810020

METHOD BLANK: 1224688 Matrix: Water  
Associated Lab Samples: 92204810009, 92204810013, 92204810014, 92204810015, 92204810016, 92204810017, 92204810018, 92204810019, 92204810020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	ND	1.0	06/19/14 20:36	
Total Organic Carbon	mg/L	ND	1.0	06/19/14 20:36	
Total Organic Carbon	mg/L	ND	1.0	06/19/14 20:36	
Total Organic Carbon	mg/L	ND	1.0	06/19/14 20:36	
Total Organic Carbon	mg/L	ND	1.0	06/19/14 20:36	

LABORATORY CONTROL SAMPLE: 1224689

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	50	47.9	96	75-125	
Total Organic Carbon	mg/L	50	46.5	93	75-125	
Total Organic Carbon	mg/L	50	49.4	99	75-125	
Total Organic Carbon	mg/L	50	47.6	95	75-125	
Total Organic Carbon	mg/L	50	48.2	96	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1224690 1224691

Parameter	Units	92204810009		MSD		MSD		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Mean Total Organic Carbon	mg/L	ND	50	50	49.5	50.4	98	100	75-125	2		
Total Organic Carbon	mg/L	ND	50	50	50.7	50.4	101	100	75-125	1		
Total Organic Carbon	mg/L	ND	50	50	46.6	50.6	93	101	75-125	8		
Total Organic Carbon	mg/L	ND	50	50	50.4	50.3	100	100	75-125	0		
Total Organic Carbon	mg/L	ND	50	50	50.2	50.4	100	100	75-125	0		

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG  
Pace Project No.: 92204810

QC Batch: MPRP/16196 Analysis Method: EPA 6010  
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Filtered  
Associated Lab Samples: 92204810001, 92204810002, 92204810003, 92204810004, 92204810005, 92204810006, 92204810007, 92204810008, 92204810009, 92204810010, 92204810011, 92204810013, 92204810014, 92204810015, 92204810016, 92204810017, 92204810018, 92204810019, 92204810020

METHOD BLANK: 1219838 Matrix: Water  
Associated Lab Samples: 92204810001, 92204810002, 92204810003, 92204810004, 92204810005, 92204810006, 92204810007, 92204810008, 92204810009, 92204810010, 92204810011, 92204810013, 92204810014, 92204810015, 92204810016, 92204810017, 92204810018, 92204810019, 92204810020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	5.0	06/12/14 21:56	

LABORATORY CONTROL SAMPLE: 1219839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	500	458	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1219840 1219841

Parameter	Units	92204810003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Manganese, Dissolved	ug/L	16.7	500	500	442	444	85	85	75-125	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1219842 1219843

Parameter	Units	92204810009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Manganese, Dissolved	ug/L	22.1	500	500	444	455	84	87	75-125	3	

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG  
Pace Project No.: 92204810

QC Batch: MSV/27191 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92204810001, 92204810002, 92204810003, 92204810004, 92204810005, 92204810006, 92204810007, 92204810008, 92204810010, 92204810011, 92204810012, 92204810013, 92204810014, 92204810015

METHOD BLANK: 1219998 Matrix: Water  
Associated Lab Samples: 92204810001, 92204810002, 92204810003, 92204810004, 92204810005, 92204810006, 92204810007, 92204810008, 92204810010, 92204810011, 92204810012, 92204810013, 92204810014, 92204810015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/12/14 12:04	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/12/14 12:04	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/12/14 12:04	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	06/12/14 12:04	
1,1-Dichloroethane	ug/L	ND	5.0	06/12/14 12:04	
1,1-Dichloroethene	ug/L	ND	5.0	06/12/14 12:04	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/12/14 12:04	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/12/14 12:04	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	06/12/14 12:04	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/12/14 12:04	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/12/14 12:04	
1,2-Dichloroethane	ug/L	ND	5.0	06/12/14 12:04	
1,2-Dichloropropane	ug/L	ND	5.0	06/12/14 12:04	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/12/14 12:04	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/12/14 12:04	
2-Butanone (MEK)	ug/L	ND	10.0	06/12/14 12:04	
2-Hexanone	ug/L	ND	10.0	06/12/14 12:04	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/12/14 12:04	
Acetone	ug/L	ND	25.0	06/12/14 12:04	
Benzene	ug/L	ND	5.0	06/12/14 12:04	
Bromodichloromethane	ug/L	ND	5.0	06/12/14 12:04	
Bromoform	ug/L	ND	5.0	06/12/14 12:04	
Bromomethane	ug/L	ND	10.0	06/12/14 12:04	
Carbon disulfide	ug/L	ND	10.0	06/12/14 12:04	
Carbon tetrachloride	ug/L	ND	5.0	06/12/14 12:04	
Chlorobenzene	ug/L	ND	5.0	06/12/14 12:04	
Chloroethane	ug/L	ND	10.0	06/12/14 12:04	
Chloroform	ug/L	ND	5.0	06/12/14 12:04	
Chloromethane	ug/L	ND	5.0	06/12/14 12:04	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/12/14 12:04	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/12/14 12:04	
Cyclohexane	ug/L	ND	5.0	06/12/14 12:04	
Dibromochloromethane	ug/L	ND	5.0	06/12/14 12:04	
Dichlorodifluoromethane	ug/L	ND	5.0	06/12/14 12:04	
Ethylbenzene	ug/L	ND	5.0	06/12/14 12:04	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/12/14 12:04	
Methyl acetate	ug/L	ND	10.0	06/12/14 12:04	
Methyl-tert-butyl ether	ug/L	ND	5.0	06/12/14 12:04	
Methylcyclohexane	ug/L	ND	10.0	06/12/14 12:04	
Methylene Chloride	ug/L	ND	5.0	06/12/14 12:04	

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

METHOD BLANK: 1219998

Matrix: Water

Associated Lab Samples: 92204810001, 92204810002, 92204810003, 92204810004, 92204810005, 92204810006, 92204810007, 92204810008, 92204810010, 92204810011, 92204810012, 92204810013, 92204810014, 92204810015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Styrene	ug/L	ND	5.0	06/12/14 12:04	
Tetrachloroethene	ug/L	ND	5.0	06/12/14 12:04	
Toluene	ug/L	ND	5.0	06/12/14 12:04	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/12/14 12:04	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/12/14 12:04	
Trichloroethene	ug/L	ND	5.0	06/12/14 12:04	
Trichlorofluoromethane	ug/L	ND	10.0	06/12/14 12:04	
Vinyl acetate	ug/L	ND	10.0	06/12/14 12:04	
Vinyl chloride	ug/L	ND	5.0	06/12/14 12:04	
Xylene (Total)	ug/L	ND	10.0	06/12/14 12:04	
1,2-Dichloroethane-d4 (S)	%	98	70-130	06/12/14 12:04	
4-Bromofluorobenzene (S)	%	99	70-130	06/12/14 12:04	
Toluene-d8 (S)	%	99	70-130	06/12/14 12:04	

LABORATORY CONTROL SAMPLE: 1219999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.4	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.8	96	70-130	
1,1,2-Trichloroethane	ug/L	50	47.6	95	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	49.2	98	70-130	
1,1-Dichloroethane	ug/L	50	43.8	88	70-130	
1,1-Dichloroethene	ug/L	50	54.1	108	70-130	
1,2,3-Trichlorobenzene	ug/L	50	49.6	99	70-130	
1,2,4-Trichlorobenzene	ug/L	50	48.3	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	49.3	99	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.2	96	70-130	
1,2-Dichlorobenzene	ug/L	50	48.4	97	70-130	
1,2-Dichloroethane	ug/L	50	46.3	93	70-130	
1,2-Dichloropropane	ug/L	50	47.2	94	70-130	
1,3-Dichlorobenzene	ug/L	50	48.5	97	70-130	
1,4-Dichlorobenzene	ug/L	50	47.8	96	70-130	
2-Butanone (MEK)	ug/L	100	103	103	70-130	
2-Hexanone	ug/L	100	90.4	90	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.4	96	70-130	
Acetone	ug/L	100	96.9	97	70-130	
Benzene	ug/L	50	48.3	97	70-130	
Bromodichloromethane	ug/L	50	48.8	98	70-130	
Bromoform	ug/L	50	51.2	102	70-130	
Bromomethane	ug/L	50	52.0	104	70-130	
Carbon disulfide	ug/L	50	47.0	94	70-130	
Carbon tetrachloride	ug/L	50	53.0	106	70-130	
Chlorobenzene	ug/L	50	47.8	96	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

LABORATORY CONTROL SAMPLE: 1219999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	50	48.9	98	70-130	
Chloroform	ug/L	50	48.6	97	70-130	
Chloromethane	ug/L	50	49.3	99	70-130	
cis-1,2-Dichloroethene	ug/L	50	50.8	102	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.5	95	70-130	
Cyclohexane	ug/L	50	56.2	112	70-130	
Dibromochloromethane	ug/L	50	49.8	100	70-130	
Dichlorodifluoromethane	ug/L	50	61.7	123	70-130	
Ethylbenzene	ug/L	50	46.1	92	70-130	
Isopropylbenzene (Cumene)	ug/L	50	49.4	99	70-130	
Methyl acetate	ug/L	50	45.0	90	70-130	
Methyl-tert-butyl ether	ug/L	50	50.1	100	70-130	
Methylcyclohexane	ug/L	50	52.9	106	70-130	
Methylene Chloride	ug/L	50	49.0	98	70-130	
Styrene	ug/L	50	49.2	98	70-130	
Tetrachloroethene	ug/L	50	48.1	96	70-130	
Toluene	ug/L	50	47.1	94	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.4	101	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.1	94	70-130	
Trichloroethene	ug/L	50	47.3	95	70-130	
Trichlorofluoromethane	ug/L	50	56.8	114	70-130	
Vinyl acetate	ug/L	100	101	101	70-130	
Vinyl chloride	ug/L	50	53.5	107	70-130	
Xylene (Total)	ug/L	150	141	94	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1220000 1220001

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92204810003 Result	Spike Conc.	Spike Conc.	MS Result					
1,1,1-Trichloroethane	ug/L	ND	50	50	46.1	49.2	92	98	70-130	6
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	43.3	44.8	87	90	70-130	3
1,1,2-Trichloroethane	ug/L	ND	50	50	44.5	46.4	89	93	70-130	4
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	50.2	54.0	100	108	70-130	7
1,1-Dichloroethane	ug/L	ND	50	50	42.2	44.8	84	90	70-130	6
1,1-Dichloroethene	ug/L	ND	50	50	53.9	57.2	108	114	70-130	6
1,2,3-Trichlorobenzene	ug/L	ND	50	50	44.5	47.0	89	94	70-130	5
1,2,4-Trichlorobenzene	ug/L	ND	50	50	43.4	47.3	87	95	70-130	9
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	43.0	45.4	86	91	70-130	6
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	43.6	46.2	87	92	70-130	6
1,2-Dichlorobenzene	ug/L	ND	50	50	44.1	47.7	88	95	70-130	8
1,2-Dichloroethane	ug/L	ND	50	50	42.5	45.4	85	91	70-130	7
1,2-Dichloropropane	ug/L	ND	50	50	44.4	47.2	89	94	70-130	6

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Parameter	92204810003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec						
1,3-Dichlorobenzene	ug/L	ND	50	50	43.9	47.2	88	94	70-130	7				
1,4-Dichlorobenzene	ug/L	ND	50	50	44.3	47.4	89	95	70-130	7				
2-Butanone (MEK)	ug/L	ND	100	100	92.1	92.2	92	92	70-130	0				
2-Hexanone	ug/L	ND	100	100	81.7	82.1	82	82	70-130	1				
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	87.7	89.8	88	90	70-130	2				
Acetone	ug/L	ND	100	100	82.3	87.5	82	88	70-130	6				
Benzene	ug/L	ND	50	50	47.0	49.9	94	100	70-130	6				
Bromodichloromethane	ug/L	ND	50	50	45.3	48.5	91	97	70-130	7				
Bromoform	ug/L	ND	50	50	46.5	48.2	93	96	70-130	4				
Bromomethane	ug/L	ND	50	50	51.1	56.0	102	112	70-130	9				
Carbon disulfide	ug/L	ND	50	50	46.3	50.6	93	101	70-130	9				
Carbon tetrachloride	ug/L	ND	50	50	53.9	56.5	108	113	70-130	5				
Chlorobenzene	ug/L	ND	50	50	45.6	48.2	91	96	70-130	6				
Chloroethane	ug/L	ND	50	50	48.6	51.9	97	104	70-130	7				
Chloroform	ug/L	5.2	50	50	52.0	54.6	94	99	70-130	5				
Chloromethane	ug/L	ND	50	50	48.5	51.5	97	103	70-130	6				
cis-1,2-Dichloroethene	ug/L	ND	50	50	48.1	51.1	96	102	70-130	6				
cis-1,3-Dichloropropene	ug/L	ND	50	50	43.7	46.6	87	93	70-130	6				
Cyclohexane	ug/L	ND	50	50	57.2	60.9	114	122	70-130	6				
Dibromochloromethane	ug/L	ND	50	50	45.6	48.7	91	97	70-130	7				
Dichlorodifluoromethane	ug/L	ND	50	50	62.7	67.6	125	135	70-130	7 M0				
Ethylbenzene	ug/L	ND	50	50	43.9	47.1	88	94	70-130	7				
Isopropylbenzene (Cumene)	ug/L	ND	50	50	46.9	50.9	94	102	70-130	8				
Methyl acetate	ug/L	ND	50	50	40.7	42.3	81	85	70-130	4				
Methyl-tert-butyl ether	ug/L	ND	50	50	45.4	47.6	91	95	70-130	5				
Methylcyclohexane	ug/L	ND	50	50	55.0	61.1	110	122	70-130	11				
Methylene Chloride	ug/L	ND	50	50	45.5	47.8	91	96	70-130	5				
Styrene	ug/L	ND	50	50	45.1	48.5	90	97	70-130	7				
Tetrachloroethene	ug/L	ND	50	50	47.1	50.2	94	100	70-130	6				
Toluene	ug/L	ND	50	50	45.9	48.3	91	96	70-130	5				
trans-1,2-Dichloroethene	ug/L	ND	50	50	49.0	52.7	98	105	70-130	7				
trans-1,3-Dichloropropene	ug/L	ND	50	50	42.9	45.2	86	90	70-130	5				
Trichloroethene	ug/L	ND	50	50	46.3	49.2	93	98	70-130	6				
Trichlorofluoromethane	ug/L	ND	50	50	57.5	61.3	115	123	70-130	6				
Vinyl acetate	ug/L	ND	100	100	90.1	94.0	90	94	70-130	4				
Vinyl chloride	ug/L	ND	50	50	53.0	57.6	106	115	70-130	8				
1,2-Dichloroethane-d4 (S)	%							99	99	70-130				
4-Bromofluorobenzene (S)	%							103	101	70-130				
Toluene-d8 (S)	%							100	101	70-130				

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG  
Pace Project No.: 92204810

QC Batch: MSV/27197 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92204810009, 92204810016, 92204810017, 92204810018, 92204810019, 92204810020, 92204810021

METHOD BLANK: 1220278 Matrix: Water  
Associated Lab Samples: 92204810009, 92204810016, 92204810017, 92204810018, 92204810019, 92204810020, 92204810021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/12/14 23:18	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/12/14 23:18	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/12/14 23:18	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	06/12/14 23:18	
1,1-Dichloroethane	ug/L	ND	5.0	06/12/14 23:18	
1,1-Dichloroethene	ug/L	ND	5.0	06/12/14 23:18	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/12/14 23:18	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/12/14 23:18	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	06/12/14 23:18	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/12/14 23:18	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/12/14 23:18	
1,2-Dichloroethane	ug/L	ND	5.0	06/12/14 23:18	
1,2-Dichloropropane	ug/L	ND	5.0	06/12/14 23:18	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/12/14 23:18	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/12/14 23:18	
2-Butanone (MEK)	ug/L	ND	10.0	06/12/14 23:18	
2-Hexanone	ug/L	ND	10.0	06/12/14 23:18	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/12/14 23:18	
Acetone	ug/L	ND	25.0	06/12/14 23:18	
Benzene	ug/L	ND	5.0	06/12/14 23:18	
Bromodichloromethane	ug/L	ND	5.0	06/12/14 23:18	
Bromoform	ug/L	ND	5.0	06/12/14 23:18	
Bromomethane	ug/L	ND	10.0	06/12/14 23:18	
Carbon disulfide	ug/L	ND	10.0	06/12/14 23:18	
Carbon tetrachloride	ug/L	ND	5.0	06/12/14 23:18	
Chlorobenzene	ug/L	ND	5.0	06/12/14 23:18	
Chloroethane	ug/L	ND	10.0	06/12/14 23:18	
Chloroform	ug/L	ND	5.0	06/12/14 23:18	
Chloromethane	ug/L	ND	5.0	06/12/14 23:18	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/12/14 23:18	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/12/14 23:18	
Cyclohexane	ug/L	ND	5.0	06/12/14 23:18	
Dibromochloromethane	ug/L	ND	5.0	06/12/14 23:18	
Dichlorodifluoromethane	ug/L	ND	5.0	06/12/14 23:18	
Ethylbenzene	ug/L	ND	5.0	06/12/14 23:18	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/12/14 23:18	
Methyl acetate	ug/L	ND	10.0	06/12/14 23:18	
Methyl-tert-butyl ether	ug/L	ND	5.0	06/12/14 23:18	
Methylcyclohexane	ug/L	ND	10.0	06/12/14 23:18	
Methylene Chloride	ug/L	ND	5.0	06/12/14 23:18	
Styrene	ug/L	ND	5.0	06/12/14 23:18	

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

METHOD BLANK: 1220278

Matrix: Water

Associated Lab Samples: 92204810009, 92204810016, 92204810017, 92204810018, 92204810019, 92204810020, 92204810021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tetrachloroethene	ug/L	ND	5.0	06/12/14 23:18	
Toluene	ug/L	ND	5.0	06/12/14 23:18	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/12/14 23:18	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/12/14 23:18	
Trichloroethene	ug/L	ND	5.0	06/12/14 23:18	
Trichlorofluoromethane	ug/L	ND	10.0	06/12/14 23:18	
Vinyl acetate	ug/L	ND	10.0	06/12/14 23:18	
Vinyl chloride	ug/L	ND	5.0	06/12/14 23:18	
Xylene (Total)	ug/L	ND	10.0	06/12/14 23:18	
1,2-Dichloroethane-d4 (S)	%	99	70-130	06/12/14 23:18	
4-Bromofluorobenzene (S)	%	101	70-130	06/12/14 23:18	
Toluene-d8 (S)	%	99	70-130	06/12/14 23:18	

LABORATORY CONTROL SAMPLE: 1220279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.3	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.3	95	70-130	
1,1,2-Trichloroethane	ug/L	50	48.5	97	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	48.8	98	70-130	
1,1-Dichloroethane	ug/L	50	44.1	88	70-130	
1,1-Dichloroethene	ug/L	50	53.5	107	70-130	
1,2,3-Trichlorobenzene	ug/L	50	48.4	97	70-130	
1,2,4-Trichlorobenzene	ug/L	50	47.4	95	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.5	97	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	47.3	95	70-130	
1,2-Dichlorobenzene	ug/L	50	47.7	95	70-130	
1,2-Dichloroethane	ug/L	50	46.7	93	70-130	
1,2-Dichloropropane	ug/L	50	47.9	96	70-130	
1,3-Dichlorobenzene	ug/L	50	47.1	94	70-130	
1,4-Dichlorobenzene	ug/L	50	47.6	95	70-130	
2-Butanone (MEK)	ug/L	100	100	100	70-130	
2-Hexanone	ug/L	100	86.8	87	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	94.0	94	70-130	
Acetone	ug/L	100	92.6	93	70-130	
Benzene	ug/L	50	48.7	97	70-130	
Bromodichloromethane	ug/L	50	49.0	98	70-130	
Bromoform	ug/L	50	50.8	102	70-130	
Bromomethane	ug/L	50	51.2	102	70-130	
Carbon disulfide	ug/L	50	46.7	93	70-130	
Carbon tetrachloride	ug/L	50	53.2	106	70-130	
Chlorobenzene	ug/L	50	48.4	97	70-130	
Chloroethane	ug/L	50	48.8	98	70-130	
Chloroform	ug/L	50	49.3	99	70-130	

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

LABORATORY CONTROL SAMPLE: 1220279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	50	48.1	96	70-130	
cis-1,2-Dichloroethene	ug/L	50	50.6	101	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.1	94	70-130	
Cyclohexane	ug/L	50	56.8	114	70-130	
Dibromochloromethane	ug/L	50	50.0	100	70-130	
Dichlorodifluoromethane	ug/L	50	60.4	121	70-130	
Ethylbenzene	ug/L	50	46.0	92	70-130	
Isopropylbenzene (Cumene)	ug/L	50	49.1	98	70-130	
Methyl acetate	ug/L	50	44.5	89	70-130	
Methyl-tert-butyl ether	ug/L	50	49.7	99	70-130	
Methylcyclohexane	ug/L	50	54.0	108	70-130	
Methylene Chloride	ug/L	50	50.4	101	70-130	
Styrene	ug/L	50	48.6	97	70-130	
Tetrachloroethene	ug/L	50	47.9	96	70-130	
Toluene	ug/L	50	47.9	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.2	100	70-130	
trans-1,3-Dichloropropene	ug/L	50	46.3	93	70-130	
Trichloroethene	ug/L	50	47.1	94	70-130	
Trichlorofluoromethane	ug/L	50	56.4	113	70-130	
Vinyl acetate	ug/L	100	98.9	99	70-130	
Vinyl chloride	ug/L	50	53.0	106	70-130	
Xylene (Total)	ug/L	150	141	94	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1220280 1220281

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92204810021 Result	Spike Conc.	Spike Conc.	MS Result					
1,1,1-Trichloroethane	ug/L	ND	50	50	53.6	54.0	107	108	70-130	1
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	49.9	50.8	100	102	70-130	2
1,1,2-Trichloroethane	ug/L	ND	50	50	50.6	53.2	101	106	70-130	5
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	57.8	58.5	116	117	70-130	1
1,1-Dichloroethane	ug/L	ND	50	50	49.3	49.6	99	99	70-130	0
1,1-Dichloroethene	ug/L	ND	50	50	63.3	62.7	127	125	70-130	1
1,2,3-Trichlorobenzene	ug/L	ND	50	50	51.2	52.1	102	104	70-130	2
1,2,4-Trichlorobenzene	ug/L	ND	50	50	50.7	52.3	101	105	70-130	3
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	49.8	51.4	100	103	70-130	3
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	51.3	52.5	103	105	70-130	2
1,2-Dichlorobenzene	ug/L	ND	50	50	51.0	53.2	102	106	70-130	4
1,2-Dichloroethane	ug/L	ND	50	50	49.9	51.0	100	102	70-130	2
1,2-Dichloropropane	ug/L	ND	50	50	51.1	53.0	102	106	70-130	4
1,3-Dichlorobenzene	ug/L	ND	50	50	51.0	53.0	102	106	70-130	4
1,4-Dichlorobenzene	ug/L	ND	50	50	51.2	52.4	102	105	70-130	2

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1220280												1220281											
Parameter	Units	92204810021 Result	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual										
			Spike Conc.	MS Conc.	Spike Conc.	MSD Conc.																	
2-Butanone (MEK)	ug/L	ND	100	100	107	107	107	107	107	107	70-130	1											
2-Hexanone	ug/L	ND	100	100	92.9	94.4	93	94	93	94	70-130	2											
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	102	102	102	102	102	102	70-130	0											
Acetone	ug/L	ND	100	100	102	96.1	100	94	100	94	70-130	6											
Benzene	ug/L	ND	50	50	54.0	54.9	108	110	108	110	70-130	2											
Bromodichloromethane	ug/L	ND	50	50	53.5	54.9	107	110	107	110	70-130	3											
Bromoform	ug/L	ND	50	50	53.7	54.3	107	109	107	109	70-130	1											
Bromomethane	ug/L	ND	50	50	59.2	60.0	118	120	118	120	70-130	1											
Carbon disulfide	ug/L	ND	50	50	54.3	54.8	109	110	109	110	70-130	1											
Carbon tetrachloride	ug/L	ND	50	50	61.3	62.2	123	124	123	124	70-130	1											
Chlorobenzene	ug/L	ND	50	50	52.8	54.0	106	108	106	108	70-130	2											
Chloroethane	ug/L	ND	50	50	56.9	56.8	114	114	114	114	70-130	0											
Chloroform	ug/L	12.7	50	50	67.2	67.4	109	109	109	109	70-130	0											
Chloromethane	ug/L	ND	50	50	56.9	55.4	114	111	114	111	70-130	3											
cis-1,2-Dichloroethene	ug/L	ND	50	50	56.2	57.5	112	114	112	114	70-130	2											
cis-1,3-Dichloropropene	ug/L	ND	50	50	51.1	52.9	102	106	102	106	70-130	3											
Cyclohexane	ug/L	ND	50	50	65.4	66.9	131	134	131	134	70-130	2 M0											
Dibromochloromethane	ug/L	ND	50	50	52.8	54.4	106	109	106	109	70-130	3											
Dichlorodifluoromethane	ug/L	ND	50	50	73.5	71.9	147	144	147	144	70-130	2 M0											
Ethylbenzene	ug/L	ND	50	50	51.3	52.3	103	105	103	105	70-130	2											
Isopropylbenzene (Cumene)	ug/L	ND	50	50	55.3	55.8	111	112	111	112	70-130	1											
Methyl acetate	ug/L	ND	50	50	49.0	46.4	98	93	98	93	70-130	5											
Methyl-tert-butyl ether	ug/L	ND	50	50	54.1	54.0	108	108	108	108	70-130	0											
Methylcyclohexane	ug/L	ND	50	50	63.9	65.7	128	131	128	131	70-130	3 M0											
Methylene Chloride	ug/L	ND	50	50	53.3	53.8	107	108	107	108	70-130	1											
Styrene	ug/L	ND	50	50	52.6	53.4	105	107	105	107	70-130	2											
Tetrachloroethene	ug/L	ND	50	50	54.6	56.1	109	112	109	112	70-130	3											
Toluene	ug/L	ND	50	50	52.5	53.7	105	107	105	107	70-130	2											
trans-1,2-Dichloroethene	ug/L	ND	50	50	57.9	58.1	116	116	116	116	70-130	0											
trans-1,3-Dichloropropene	ug/L	ND	50	50	49.3	50.7	99	101	99	101	70-130	3											
Trichloroethene	ug/L	ND	50	50	53.3	54.7	107	109	107	109	70-130	3											
Trichlorofluoromethane	ug/L	ND	50	50	66.9	67.8	134	136	134	136	70-130	1 M0											
Vinyl acetate	ug/L	ND	100	100	105	103	105	103	105	103	70-130	2											
Vinyl chloride	ug/L	ND	50	50	63.0	61.8	126	124	126	124	70-130	2											
1,2-Dichloroethane-d4 (S)	%							100		99	70-130												
4-Bromofluorobenzene (S)	%							102		101	70-130												
Toluene-d8 (S)	%							100		100	70-130												

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1220282												1220283											
Parameter	Units	92204810009 Result	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual										
			Spike Conc.	MS Conc.	Spike Conc.	MSD Conc.																	
1,1,1-Trichloroethane	ug/L	ND	125	125	131	122	105	98	105	98	70-130	7											
1,1,1,2-Tetrachloroethane	ug/L	ND	125	125	123	113	98	91	98	91	70-130	8											

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Parameter	92204810009		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec						
1,1,2-Trichloroethane	ug/L	ND	125	125	123	116	98	93	70-130	6				
1,1,2-Trichlorotrifluoroethane	ug/L	ND	125	125	143	135	115	108	70-130	6				
1,1-Dichloroethane	ug/L	ND	125	125	120	114	95	91	70-130	5				
1,1-Dichloroethene	ug/L	ND	125	125	155	144	122	114	70-130	7				
1,2,3-Trichlorobenzene	ug/L	ND	125	125	129	118	103	94	70-130	9				
1,2,4-Trichlorobenzene	ug/L	ND	125	125	128	115	102	92	70-130	11				
1,2-Dibromo-3-chloropropane	ug/L	ND	125	125	128	113	102	91	70-130	12				
1,2-Dibromoethane (EDB)	ug/L	ND	125	125	123	116	99	93	70-130	6				
1,2-Dichlorobenzene	ug/L	ND	125	125	127	117	101	94	70-130	8				
1,2-Dichloroethane	ug/L	ND	125	125	120	113	96	91	70-130	6				
1,2-Dichloropropane	ug/L	ND	125	125	125	117	100	94	70-130	6				
1,3-Dichlorobenzene	ug/L	ND	125	125	123	116	99	93	70-130	6				
1,4-Dichlorobenzene	ug/L	ND	125	125	124	117	99	94	70-130	6				
2-Butanone (MEK)	ug/L	ND	250	250	259	240	104	96	70-130	8				
2-Hexanone	ug/L	ND	250	250	227	211	91	85	70-130	7				
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	245	226	98	90	70-130	8				
Acetone	ug/L	ND	250	250	250	224	98	88	70-130	11				
Benzene	ug/L	ND	125	125	131	125	105	100	70-130	5				
Bromodichloromethane	ug/L	ND	125	125	127	122	101	98	70-130	4				
Bromoform	ug/L	ND	125	125	131	122	105	98	70-130	7				
Bromomethane	ug/L	ND	125	125	143	138	114	111	70-130	3				
Carbon disulfide	ug/L	ND	125	125	133	125	107	100	70-130	7				
Carbon tetrachloride	ug/L	ND	125	125	149	142	119	113	70-130	5				
Chlorobenzene	ug/L	ND	125	125	126	121	101	96	70-130	4				
Chloroethane	ug/L	ND	125	125	135	128	108	103	70-130	5				
Chloroform	ug/L	248	125	125	380	374	106	101	70-130	2				
Chloromethane	ug/L	ND	125	125	135	130	108	104	70-130	4				
cis-1,2-Dichloroethene	ug/L	ND	125	125	137	129	109	102	70-130	6				
cis-1,3-Dichloropropene	ug/L	ND	125	125	124	117	99	94	70-130	5				
Cyclohexane	ug/L	ND	125	125	162	150	129	120	70-130	8				
Dibromochloromethane	ug/L	ND	125	125	129	122	103	97	70-130	6				
Dichlorodifluoromethane	ug/L	ND	125	125	180	168	144	134	70-130	7	M0			
Ethylbenzene	ug/L	ND	125	125	125	118	100	94	70-130	5				
Isopropylbenzene (Cumene)	ug/L	ND	125	125	133	127	106	102	70-130	4				
Methyl acetate	ug/L	ND	125	125	120	107	96	86	70-130	12				
Methyl-tert-butyl ether	ug/L	ND	125	125	130	122	104	97	70-130	7				
Methylcyclohexane	ug/L	ND	125	125	158	145	126	116	70-130	9				
Methylene Chloride	ug/L	ND	125	125	133	125	106	100	70-130	6				
Styrene	ug/L	ND	125	125	127	122	102	97	70-130	4				
Tetrachloroethene	ug/L	ND	125	125	134	128	107	102	70-130	5				
Toluene	ug/L	ND	125	125	128	123	102	98	70-130	4				
trans-1,2-Dichloroethene	ug/L	ND	125	125	140	131	112	105	70-130	6				
trans-1,3-Dichloropropene	ug/L	ND	125	125	119	113	95	91	70-130	5				
Trichloroethene	ug/L	ND	125	125	131	124	105	99	70-130	6				
Trichlorofluoromethane	ug/L	ND	125	125	163	154	130	124	70-130	5				
Vinyl acetate	ug/L	ND	250	250	253	234	101	94	70-130	8				

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Parameter	Units	1220282		1220283		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92204810009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Vinyl chloride	ug/L	ND	125	125	152	145	122	116	70-130	5		
1,2-Dichloroethane-d4 (S)	%							99	98	70-130		
4-Bromofluorobenzene (S)	%							101	102	70-130		
Toluene-d8 (S)	%							101	102	70-130		

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

QC Batch: MSV/27220 Analysis Method: EPA 8260B Mod.  
 QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM  
 Associated Lab Samples: 92204810013, 92204810014, 92204810015, 92204810016, 92204810017, 92204810018, 92204810019, 92204810020, 92204810021, 92204810022

METHOD BLANK: 1221810 Matrix: Water  
 Associated Lab Samples: 92204810013, 92204810014, 92204810015, 92204810016, 92204810017, 92204810018, 92204810019, 92204810020, 92204810021, 92204810022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/14/14 12:02	
1,2-Dichloroethane-d4 (S)	%	112	50-150	06/14/14 12:02	
Toluene-d8 (S)	%	73	50-150	06/14/14 12:02	

LABORATORY CONTROL SAMPLE: 1221811

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	19.1	95	71-125	
1,2-Dichloroethane-d4 (S)	%			110	50-150	
Toluene-d8 (S)	%			75	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1221812 1221813

Parameter	Units	92204810021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	18.7	19.2	88	91	50-150	2	
1,2-Dichloroethane-d4 (S)	%						127	124	50-150		
Toluene-d8 (S)	%						72	71	50-150		

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

QC Batch: MSV/27225 Analysis Method: EPA 8260B Mod.  
 QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM  
 Associated Lab Samples: 92204810024, 92204810025, 92204810026, 92204810027

METHOD BLANK: 1222072 Matrix: Water  
 Associated Lab Samples: 92204810024, 92204810025, 92204810026, 92204810027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/16/14 13:10	
1,2-Dichloroethane-d4 (S)	%	96	50-150	06/16/14 13:10	
Toluene-d8 (S)	%	69	50-150	06/16/14 13:10	

LABORATORY CONTROL SAMPLE: 1222073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	18.3	92	71-125	
1,2-Dichloroethane-d4 (S)	%			117	50-150	
Toluene-d8 (S)	%			70	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222074 1222075

Parameter	Units	92205025019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	20.2	23.6	96	113	50-150	16	
1,2-Dichloroethane-d4 (S)	%						111	106	50-150		
Toluene-d8 (S)	%						90	90	50-150		

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

QC Batch:	MSV/27264	Analysis Method:	EPA 8260B Mod.
QC Batch Method:	EPA 8260B Mod.	Analysis Description:	8260 MSV SIM
Associated Lab Samples:	92204810023		

METHOD BLANK: 1223732 Matrix: Water

Associated Lab Samples: 92204810023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/18/14 14:51	
1,2-Dichloroethane-d4 (S)	%	99	50-150	06/18/14 14:51	
Toluene-d8 (S)	%	77	50-150	06/18/14 14:51	

LABORATORY CONTROL SAMPLE: 1223733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	22.0	110	71-125	
1,2-Dichloroethane-d4 (S)	%			111	50-150	
Toluene-d8 (S)	%			80	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1223734 1223735

Parameter	Units	92204810023		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
1,4-Dioxane (p-Dioxane)	ug/L	4.4	20	20	24.9	23.7	103	97	50-150	5				
1,2-Dichloroethane-d4 (S)	%						126	135	50-150					
Toluene-d8 (S)	%						73	73	50-150					

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

QC Batch: OEXT/28246

Analysis Method: EPA 8270

QC Batch Method: EPA 3510

Analysis Description: 8270 Water MSSV

Associated Lab Samples: 92204810022, 92204810024, 92204810025, 92204810027

METHOD BLANK: 1220336

Matrix: Water

Associated Lab Samples: 92204810022, 92204810024, 92204810025, 92204810027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Biphenyl (Diphenyl)	ug/L	ND	10.0	06/16/14 11:21	
Diphenyl ether (Phenyl ether)	ug/L	ND	10.0	06/16/14 11:21	
2,4,6-Tribromophenol (S)	%	61	27-110	06/16/14 11:21	
2-Fluorobiphenyl (S)	%	66	27-110	06/16/14 11:21	
2-Fluorophenol (S)	%	36	12-110	06/16/14 11:21	
Nitrobenzene-d5 (S)	%	64	21-110	06/16/14 11:21	
Phenol-d6 (S)	%	23	10-110	06/16/14 11:21	
Terphenyl-d14 (S)	%	75	31-107	06/16/14 11:21	

LABORATORY CONTROL SAMPLE: 1220337

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Biphenyl (Diphenyl)	ug/L	50	39.4	79	38-120	
Diphenyl ether (Phenyl ether)	ug/L	50	40.2	80	51-120	
2,4,6-Tribromophenol (S)	%			79	27-110	
2-Fluorobiphenyl (S)	%			77	27-110	
2-Fluorophenol (S)	%			46	12-110	
Nitrobenzene-d5 (S)	%			59	21-110	
Phenol-d6 (S)	%			34	10-110	
Terphenyl-d14 (S)	%			75	31-107	

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

QC Batch:	OEXT/28269	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water MSSV
Associated Lab Samples:	92204810023		

METHOD BLANK: 1221421 Matrix: Water

Associated Lab Samples: 92204810023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Biphenyl (Diphenyl)	ug/L	ND	10.0	06/17/14 19:31	
Diphenyl ether (Phenyl ether)	ug/L	ND	10.0	06/17/14 19:31	
2-Fluorobiphenyl (S)	%	73	27-110	06/17/14 19:31	
Nitrobenzene-d5 (S)	%	69	21-110	06/17/14 19:31	
Terphenyl-d14 (S)	%	68	31-107	06/17/14 19:31	

LABORATORY CONTROL SAMPLE: 1221422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Biphenyl (Diphenyl)	ug/L	50	37.9	76	38-120	
Diphenyl ether (Phenyl ether)	ug/L	50	37.2	74	51-120	
2-Fluorobiphenyl (S)	%			74	27-110	
Nitrobenzene-d5 (S)	%			58	21-110	
Terphenyl-d14 (S)	%			72	31-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1221423 1221424

Parameter	Units	92204810023		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Biphenyl (Diphenyl)	ug/L	ND	100	100	72.5	56.8	73	57	50-150	24		
Diphenyl ether (Phenyl ether)	ug/L	ND	100	100	69.4	54.8	69	55	50-150	24		
2-Fluorobiphenyl (S)	%						69	53	27-110			
Nitrobenzene-d5 (S)	%						53	42	21-110			
Terphenyl-d14 (S)	%						54	55	31-107			

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

QC Batch:	OEXT/28348	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water MSSV
Associated Lab Samples:	92204810021		

METHOD BLANK: 1224298 Matrix: Water

Associated Lab Samples: 92204810021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Biphenyl (Diphenyl)	ug/L	ND	10.0	06/23/14 22:01	
Diphenyl ether (Phenyl ether)	ug/L	ND	10.0	06/23/14 22:01	
2-Fluorobiphenyl (S)	%	71	27-110	06/23/14 22:01	
Nitrobenzene-d5 (S)	%	57	21-110	06/23/14 22:01	
Terphenyl-d14 (S)	%	82	31-107	06/23/14 22:01	

LABORATORY CONTROL SAMPLE: 1224299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Biphenyl (Diphenyl)	ug/L	50	40.0	80	38-120	
Diphenyl ether (Phenyl ether)	ug/L	50	36.8	74	51-120	
2-Fluorobiphenyl (S)	%			80	27-110	
Nitrobenzene-d5 (S)	%			55	21-110	
Terphenyl-d14 (S)	%			79	31-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1224300 1224301

Parameter	Units	92204810021		MSD		MSD		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Biphenyl (Diphenyl)	ug/L	ND	100	100	36.2	36.7	36	37	50-150	1	M1	
Diphenyl ether (Phenyl ether)	ug/L	ND	100	100	33.3	33.7	33	34	50-150	1	M1	
2-Fluorobiphenyl (S)	%						33	33	27-110			
Nitrobenzene-d5 (S)	%						27	26	21-110			
Terphenyl-d14 (S)	%						72	64	31-107			

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG  
Pace Project No.: 92204810

QC Batch: WET/31600 Analysis Method: SM 2320B  
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
Associated Lab Samples: 92204810001, 92204810002, 92204810003, 92204810004, 92204810005, 92204810006, 92204810007, 92204810008, 92204810009, 92204810010, 92204810011, 92204810013, 92204810014, 92204810015, 92204810016, 92204810017, 92204810018, 92204810019, 92204810020

METHOD BLANK: 1222383 Matrix: Water  
Associated Lab Samples: 92204810001, 92204810002, 92204810003, 92204810004, 92204810005, 92204810006, 92204810007, 92204810008, 92204810009, 92204810010, 92204810011, 92204810013, 92204810014, 92204810015, 92204810016, 92204810017, 92204810018, 92204810019, 92204810020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	06/17/14 10:29	

LABORATORY CONTROL SAMPLE: 1222384

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	46.2	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222385 1222386

Parameter	Units	92204810003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	50.9	49.6	97	95	75-125	3	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222387 1222388

Parameter	Units	92204810009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Alkalinity, Total as CaCO3	mg/L	57.1	50	50	101	103	88	91	75-125	1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

QC Batch: WET/31512

Analysis Method: SM 4500-S2D

QC Batch Method: SM 4500-S2D

Analysis Description: 4500S2D Sulfide Water

Associated Lab Samples: 92204810001, 92204810002, 92204810003, 92204810004, 92204810005, 92204810006

METHOD BLANK: 1219045

Matrix: Water

Associated Lab Samples: 92204810001, 92204810002, 92204810003, 92204810004, 92204810005, 92204810006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/12/14 11:30	

LABORATORY CONTROL SAMPLE: 1219046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.52	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1219047 1219048

Parameter	Units	92204473007 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.							
Sulfide	mg/L	ND	.5	.5	ND	ND	13	13	75-125		M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1219049 1219050

Parameter	Units	92204810003 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.							
Sulfide	mg/L	ND	.5	.5	0.55	0.55	110	110	75-125	0	

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### QUALITY CONTROL DATA

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

QC Batch:	WET/31513	Analysis Method:	SM 4500-S2D
QC Batch Method:	SM 4500-S2D	Analysis Description:	4500S2D Sulfide Water
Associated Lab Samples:	92204810007, 92204810008, 92204810009, 92204810010, 92204810011, 92204810013, 92204810014, 92204810015, 92204810016, 92204810017, 92204810018, 92204810019, 92204810020		

METHOD BLANK:	1219051	Matrix:	Water
Associated Lab Samples:	92204810007, 92204810008, 92204810009, 92204810010, 92204810011, 92204810013, 92204810014, 92204810015, 92204810016, 92204810017, 92204810018, 92204810019, 92204810020		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/12/14 11:32	

LABORATORY CONTROL SAMPLE: 1219052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.52	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1219053 1219054

Parameter	Units	92204810009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.49	0.49	98	98	75-125	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1219055 1219056

Parameter	Units	92204810015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.55	0.55	111	111	75-125	0	

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## QUALIFIERS

Project: CNA / SPARTANBURG  
Pace Project No.: 92204810

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

PASI-G Pace Analytical Services - Greenwood

### ANALYTE QUALIFIERS

H5 Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

S0 Surrogate recovery outside laboratory control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92204810001	MW-136	EPA 9056A	GWD/1335		
92204810002	DW-1	EPA 9056A	GWD/1335		
92204810003	MW-128	EPA 9056A	GWD/1335		
92204810004	MW-122	EPA 9056A	GWD/1335		
92204810005	RW-123	EPA 9056A	GWD/1335		
92204810006	MW-124	EPA 9056A	GWD/1335		
92204810007	MW-126	EPA 9056A	GWD/1335		
92204810008	RW-127	EPA 9056A	GWD/1335		
92204810009	RW-137	EPA 9056A	GWD/1335		
92204810010	RW-139	EPA 9056A	GWD/1335		
92204810011	MW-138	EPA 9056A	GWD/1335		
92204810013	RW-110	EPA 9056A	GWD/1335		
92204810014	RW-111	EPA 9056A	GWD/1335		
92204810015	MW-116	EPA 9056A	GWD/1335		
92204810016	MW-112	EPA 9056A	GWD/1335		
92204810017	RW-113	EPA 9056A	GWD/1335		
92204810018	RW-115	EPA 9056A	GWD/1335		
92204810019	MW-114	EPA 9056A	GWD/1335		
92204810020	DW-3	EPA 9056A	GWD/1335		
92204810001	MW-136	EPA 9060A	GWD/1358		
92204810002	DW-1	EPA 9060A	GWD/1358		
92204810003	MW-128	EPA 9060A	GWD/1358		
92204810004	MW-122	EPA 9060A	GWD/1358		
92204810005	RW-123	EPA 9060A	GWD/1358		
92204810006	MW-124	EPA 9060A	GWD/1358		
92204810007	MW-126	EPA 9060A	GWD/1358		
92204810008	RW-127	EPA 9060A	GWD/1358		
92204810009	RW-137	EPA 9060A	GWD/1359		
92204810010	RW-139	EPA 9060A	GWD/1358		
92204810011	MW-138	EPA 9060A	GWD/1358		
92204810013	RW-110	EPA 9060A	GWD/1359		
92204810014	RW-111	EPA 9060A	GWD/1359		
92204810015	MW-116	EPA 9060A	GWD/1359		
92204810016	MW-112	EPA 9060A	GWD/1359		
92204810017	RW-113	EPA 9060A	GWD/1359		
92204810018	RW-115	EPA 9060A	GWD/1359		
92204810019	MW-114	EPA 9060A	GWD/1359		
92204810020	DW-3	EPA 9060A	GWD/1359		
92204810001	MW-136	EPA 3010	MPRP/16196	EPA 6010	ICP/14637
92204810002	DW-1	EPA 3010	MPRP/16196	EPA 6010	ICP/14637
92204810003	MW-128	EPA 3010	MPRP/16196	EPA 6010	ICP/14637
92204810004	MW-122	EPA 3010	MPRP/16196	EPA 6010	ICP/14637
92204810005	RW-123	EPA 3010	MPRP/16196	EPA 6010	ICP/14637
92204810006	MW-124	EPA 3010	MPRP/16196	EPA 6010	ICP/14637
92204810007	MW-126	EPA 3010	MPRP/16196	EPA 6010	ICP/14637
92204810008	RW-127	EPA 3010	MPRP/16196	EPA 6010	ICP/14637

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92204810009	RW-137	EPA 3010	MPRP/16196	EPA 6010	ICP/14637
92204810010	RW-139	EPA 3010	MPRP/16196	EPA 6010	ICP/14637
92204810011	MW-138	EPA 3010	MPRP/16196	EPA 6010	ICP/14637
92204810013	RW-110	EPA 3010	MPRP/16196	EPA 6010	ICP/14637
92204810014	RW-111	EPA 3010	MPRP/16196	EPA 6010	ICP/14637
92204810015	MW-116	EPA 3010	MPRP/16196	EPA 6010	ICP/14637
92204810016	MW-112	EPA 3010	MPRP/16196	EPA 6010	ICP/14637
92204810017	RW-113	EPA 3010	MPRP/16196	EPA 6010	ICP/14637
92204810018	RW-115	EPA 3010	MPRP/16196	EPA 6010	ICP/14637
92204810019	MW-114	EPA 3010	MPRP/16196	EPA 6010	ICP/14637
92204810020	DW-3	EPA 3010	MPRP/16196	EPA 6010	ICP/14637
92204810021	SW-12	EPA 3510	OEXT/28348	EPA 8270	MSSV/9286
92204810022	MW-102	EPA 3510	OEXT/28246	EPA 8270	MSSV/9245
92204810023	RW-83A	EPA 3510	OEXT/28269	EPA 8270	MSSV/9253
92204810024	RW-84	EPA 3510	OEXT/28246	EPA 8270	MSSV/9245
92204810025	MW-81	EPA 3510	OEXT/28246	EPA 8270	MSSV/9245
92204810027	RW-08	EPA 3510	OEXT/28246	EPA 8270	MSSV/9245
92204810001	MW-136	EPA 8260	MSV/27191		
92204810002	DW-1	EPA 8260	MSV/27191		
92204810003	MW-128	EPA 8260	MSV/27191		
92204810004	MW-122	EPA 8260	MSV/27191		
92204810005	RW-123	EPA 8260	MSV/27191		
92204810006	MW-124	EPA 8260	MSV/27191		
92204810007	MW-126	EPA 8260	MSV/27191		
92204810008	RW-127	EPA 8260	MSV/27191		
92204810009	RW-137	EPA 8260	MSV/27197		
92204810010	RW-139	EPA 8260	MSV/27191		
92204810011	MW-138	EPA 8260	MSV/27191		
92204810012	TRIP BLANK	EPA 8260	MSV/27191		
92204810013	RW-110	EPA 8260	MSV/27191		
92204810014	RW-111	EPA 8260	MSV/27191		
92204810015	MW-116	EPA 8260	MSV/27191		
92204810016	MW-112	EPA 8260	MSV/27197		
92204810017	RW-113	EPA 8260	MSV/27197		
92204810018	RW-115	EPA 8260	MSV/27197		
92204810019	MW-114	EPA 8260	MSV/27197		
92204810020	DW-3	EPA 8260	MSV/27197		
92204810021	SW-12	EPA 8260	MSV/27197		
92204810013	RW-110	EPA 8260B Mod.	MSV/27220		
92204810014	RW-111	EPA 8260B Mod.	MSV/27220		
92204810015	MW-116	EPA 8260B Mod.	MSV/27220		
92204810016	MW-112	EPA 8260B Mod.	MSV/27220		
92204810017	RW-113	EPA 8260B Mod.	MSV/27220		
92204810018	RW-115	EPA 8260B Mod.	MSV/27220		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CNA / SPARTANBURG

Pace Project No.: 92204810

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92204810019	MW-114	EPA 8260B Mod.	MSV/27220		
92204810020	DW-3	EPA 8260B Mod.	MSV/27220		
92204810021	SW-12	EPA 8260B Mod.	MSV/27220		
92204810022	MW-102	EPA 8260B Mod.	MSV/27220		
92204810023	RW-83A	EPA 8260B Mod.	MSV/27264		
92204810024	RW-84	EPA 8260B Mod.	MSV/27225		
92204810025	MW-81	EPA 8260B Mod.	MSV/27225		
92204810026	MW-41	EPA 8260B Mod.	MSV/27225		
92204810027	RW-08	EPA 8260B Mod.	MSV/27225		
92204810001	MW-136	SM 2320B	WET/31600		
92204810002	DW-1	SM 2320B	WET/31600		
92204810003	MW-128	SM 2320B	WET/31600		
92204810004	MW-122	SM 2320B	WET/31600		
92204810005	RW-123	SM 2320B	WET/31600		
92204810006	MW-124	SM 2320B	WET/31600		
92204810007	MW-126	SM 2320B	WET/31600		
92204810008	RW-127	SM 2320B	WET/31600		
92204810009	RW-137	SM 2320B	WET/31600		
92204810010	RW-139	SM 2320B	WET/31600		
92204810011	MW-138	SM 2320B	WET/31600		
92204810013	RW-110	SM 2320B	WET/31600		
92204810014	RW-111	SM 2320B	WET/31600		
92204810015	MW-116	SM 2320B	WET/31600		
92204810016	MW-112	SM 2320B	WET/31600		
92204810017	RW-113	SM 2320B	WET/31600		
92204810018	RW-115	SM 2320B	WET/31600		
92204810019	MW-114	SM 2320B	WET/31600		
92204810020	DW-3	SM 2320B	WET/31600		
92204810001	MW-136	SM 4500-S2D	WET/31512		
92204810002	DW-1	SM 4500-S2D	WET/31512		
92204810003	MW-128	SM 4500-S2D	WET/31512		
92204810004	MW-122	SM 4500-S2D	WET/31512		
92204810005	RW-123	SM 4500-S2D	WET/31512		
92204810006	MW-124	SM 4500-S2D	WET/31512		
92204810007	MW-126	SM 4500-S2D	WET/31513		
92204810008	RW-127	SM 4500-S2D	WET/31513		
92204810009	RW-137	SM 4500-S2D	WET/31513		
92204810010	RW-139	SM 4500-S2D	WET/31513		
92204810011	MW-138	SM 4500-S2D	WET/31513		
92204810013	RW-110	SM 4500-S2D	WET/31513		
92204810014	RW-111	SM 4500-S2D	WET/31513		
92204810015	MW-116	SM 4500-S2D	WET/31513		
92204810016	MW-112	SM 4500-S2D	WET/31513		
92204810017	RW-113	SM 4500-S2D	WET/31513		
92204810018	RW-115	SM 4500-S2D	WET/31513		
92204810019	MW-114	SM 4500-S2D	WET/31513		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CNA / SPARTANBURG

Pace Project No.: 92204810


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<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
92204810020	DW-3	SM 4500-S2D	WET/31513		

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### REPORT OF LABORATORY ANALYSIS

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	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: February 6, 2014 Page 1 of 2
	Document Number: F-GWD-QA-015-Rev00	Issuing Authority: Pace Greenwood Quality Office

Client Name: AECOM

10F3

Where Received:  Greenwood  Asheville  Eden  Raleigh  Huntersville

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_  
 Custody Seal on Cooler/Box Present:  yes  no    Seals intact:  yes  no

Optional Proj. Due Date: Proj. Name:
--

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_  
 Thermometer Used: IR Gun TH-72    Type of Ice: Wet Blue None  Samples on ice, cooling process has begun

Temp Correction Factor TH-72: Add / Subtract (circle) 0.1 deg C

Corrected Cooler Temp.: 0.8 C    Biological Tissue is Frozen: Yes No N/A  
 Temp should be above freezing to 6°C

Date and Initials of person examining contents: <u>M 6-11-14</u>
--

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>Orthophosphate &amp; pH</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>H<sub>2</sub>O</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Samples checked for dechlorination:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: \_\_\_\_\_ Field Data Required? Y (N)

Person Contacted: Aaron Hill/Bryan Dahlgren Date/Time: 6/11/14  
 Comments/ Resolution: client informed pH is being measured in field therefore pH measured in Lab is not needed. K6.

SCURF Review: <u>[Signature]</u>	Date: <u>6/11/14</u>
SRF Review: <u>[Signature]</u>	Date: <u>6/11/14</u>

Place label here  
 92204810  
 OR  
 Handwrite project number  
 (if no label available)

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)









July 03, 2014

Bryon Dahlgren  
AECOM  
10 Patewood Drive, Bldg 6  
Suite 500  
Greenville, SC 29615

RE: Project: CNA/SPARTANBURG  
Pace Project No.: 92205025

Dear Bryon Dahlgren:

Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin  
kevin.godwin@pacelabs.com  
Project Manager

Enclosures

cc: Aynsley Zollinger, AECOM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

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### Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
West Virginia Certification #: 357  
Virginia/VELAP Certification #: 460221

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### Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
Massachusetts Certification #: M-NC030  
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40  
South Carolina Certification #: 99030001  
West Virginia Certification #: 356  
Virginia/VELAP Certification #: 460222

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### Greenwood Certification IDs

816 Durst Avenue East, Greenwood, SC 29649  
South Carolina Laboratory ID #: 24562  
North Carolina Division of Water Resources Certification  
number 25

Florida Certification number E87633  
Virginia VELAP ID: 460250  
Asbestos NVLAP accreditation: 101410-0

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92205025001	TRIP BLANK02	EPA 8260	NU1	53	PASI-C
92205025002	RW-85	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205025003	DW-2	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205025004	RW-87	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205025005	MW-42	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205025006	MW-09A	EPA 8260B Mod.	DLK	3	PASI-C
92205025007	MW-39	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205025008	RW-79	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205025009	RW-80	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205025010	MW-53	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205025011	RW-82	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205025012	DW-4	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205025013	RW-86	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205025014	MW-07	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205025015	RW-92	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205025016	RW-91	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205025017	MW-05	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205025018	RW-133	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		SM 2320B	MDW	1	PASI-A

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### SAMPLE ANALYTE COUNT

Project: CNA/SPARTANBURG  
Pace Project No.: 92205025

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92205025019	SW-11	SM 4500-S2D	SAE	1	PASI-A
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	NU1	53	PASI-C
92205025020	SW-10	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	NU1	53	PASI-C
92205025021	SW-9	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	NU1	53	PASI-C
92205025022	SW-8	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	NU1	53	PASI-C
92205025023	SW-7	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	NU1	53	PASI-C
92205025024	SW-5	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	NU1	53	PASI-C
92205025025	SW-6	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	NU1	53	PASI-C
92205025026	SW-4	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	NU1	53	PASI-C
92205025027	SW-3	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	NU1	53	PASI-C
92205025028	SW-2	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	NU1	53	PASI-C
92205025029	SW-1	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	NU1	53	PASI-C
92205025030	MW-105	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A

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### SAMPLE ANALYTE COUNT

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
92205025031	MW-106	EPA 8270	BPJ	5	PASI-C		
		EPA 8260	NU1	53	PASI-C		
		EPA 8260B Mod.	DLK	3	PASI-C		
		SM 2320B	MDW	1	PASI-A		
		SM 4500-S2D	SAE	1	PASI-A		
		EPA 9056A	CDC	5	PASI-G		
		EPA 9060A	CDC	5	PASI-G		
		EPA 6010	JMW	1	PASI-A		
		EPA 8270	BPJ	5	PASI-C		
		EPA 8260	NU1	53	PASI-C		
		EPA 8260B Mod.	DLK	3	PASI-C		
		SM 2320B	MDW	1	PASI-A		
92205025032	MW-132	SM 4500-S2D	SAE	1	PASI-A		
		EPA 9056A	CDC	5	PASI-G		
		EPA 9060A	CDC	5	PASI-G		
		EPA 6010	JMW	1	PASI-A		
		EPA 8260	NU1	53	PASI-C		
		SM 2320B	MDW	1	PASI-A		
		SM 4500-S2D	SAE	1	PASI-A		
		92205025033	MW-134	EPA 9056A	CDC	5	PASI-G
				EPA 9060A	CDC	5	PASI-G
				EPA 6010	JMW	1	PASI-A
				EPA 8260	NU1	53	PASI-C
				SM 2320B	MDW	1	PASI-A
SM 4500-S2D	SAE			1	PASI-A		
92205025035	RW-121			EPA 9056A	CDC	5	PASI-G
				EPA 9060A	CDC	5	PASI-G
				EPA 6010	JMW	1	PASI-A
				EPA 8260	NU1	53	PASI-C
				EPA 8260B Mod.	DLK	3	PASI-C
				SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A		
		92205025036	MW-120	EPA 9056A	CDC	5	PASI-G
				EPA 9060A	CDC	5	PASI-G
				EPA 6010	JMW	1	PASI-A
				EPA 8260	NU1	53	PASI-C
				EPA 8260B Mod.	DLK	3	PASI-C

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### SAMPLE ANALYTE COUNT

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92205025037	RW-108	SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205025038	MW-109	SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	GAW, NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205025039	MW-118	SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
92205025040	EW-49	SM 4500-S2D	SAE	1	PASI-A
		EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
92205025041	SW-13	SM 4500-S2D	SAE	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205025042	SW-14	EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG  
Pace Project No.: 92205025

Sample: TRIP BLANK02		Lab ID: 92205025001	Collected: 06/10/14 00:00	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		06/16/14 18:53	67-64-1	
Benzene	ND	ug/L	5.0	1		06/16/14 18:53	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/16/14 18:53	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/16/14 18:53	75-25-2	
Bromomethane	ND	ug/L	10.0	1		06/16/14 18:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/16/14 18:53	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/16/14 18:53	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/16/14 18:53	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/16/14 18:53	108-90-7	
Chloroethane	ND	ug/L	10.0	1		06/16/14 18:53	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/16/14 18:53	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/16/14 18:53	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		06/16/14 18:53	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/16/14 18:53	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/16/14 18:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/16/14 18:53	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/16/14 18:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/16/14 18:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/16/14 18:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/16/14 18:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/16/14 18:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/16/14 18:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/16/14 18:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/16/14 18:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/16/14 18:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/16/14 18:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/16/14 18:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/16/14 18:53	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/16/14 18:53	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/16/14 18:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/16/14 18:53	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/16/14 18:53	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/16/14 18:53	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/16/14 18:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/16/14 18:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/16/14 18:53	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/16/14 18:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/16/14 18:53	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/16/14 18:53	127-18-4	
Toluene	ND	ug/L	5.0	1		06/16/14 18:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/16/14 18:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/16/14 18:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/16/14 18:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/16/14 18:53	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/16/14 18:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/16/14 18:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/16/14 18:53	76-13-1	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

<b>Sample: TRIP BLANK02</b>		<b>Lab ID: 92205025001</b>	Collected: 06/10/14 00:00	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260							
Vinyl acetate	ND ug/L		10.0	1		06/16/14 18:53	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/16/14 18:53	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/16/14 18:53	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100 %		70-130	1		06/16/14 18:53	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		06/16/14 18:53	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		06/16/14 18:53	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: RW-85	Lab ID: 92205025002	Collected: 06/10/14 15:44	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/13/14 00:00	06/18/14 14:28	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/13/14 00:00	06/18/14 14:28	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	33 %		21-110	1	06/13/14 00:00	06/18/14 14:28	4165-60-0	
2-Fluorobiphenyl (S)	34 %		27-110	1	06/13/14 00:00	06/18/14 14:28	321-60-8	
Terphenyl-d14 (S)	45 %		31-107	1	06/13/14 00:00	06/18/14 14:28	1718-51-0	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	21.5 ug/L		2.0	1		06/18/14 21:19	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	132 %		50-150	1		06/18/14 21:19	17060-07-0	
Toluene-d8 (S)	72 %		50-150	1		06/18/14 21:19	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: DW-2		Lab ID: 92205025003	Collected: 06/10/14 18:00	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/13/14 00:00	06/18/14 17:07	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/13/14 00:00	06/18/14 17:07	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	35 %		21-110	1	06/13/14 00:00	06/18/14 17:07	4165-60-0	
2-Fluorobiphenyl (S)	37 %		27-110	1	06/13/14 00:00	06/18/14 17:07	321-60-8	
Terphenyl-d14 (S)	44 %		31-107	1	06/13/14 00:00	06/18/14 17:07	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>22.3</b> ug/L		2.0	1		06/18/14 21:40	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	137 %		50-150	1		06/18/14 21:40	17060-07-0	
Toluene-d8 (S)	72 %		50-150	1		06/18/14 21:40	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

<b>Sample: RW-87</b>		<b>Lab ID: 92205025004</b>	Collected: 06/10/14 16:47	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/13/14 00:00	06/18/14 17:39	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/13/14 00:00	06/18/14 17:39	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	22 %		21-110	1	06/13/14 00:00	06/18/14 17:39	4165-60-0	
2-Fluorobiphenyl (S)	25 %		27-110	1	06/13/14 00:00	06/18/14 17:39	321-60-8	S0
Terphenyl-d14 (S)	55 %		31-107	1	06/13/14 00:00	06/18/14 17:39	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	3.5 ug/L		2.0	1		06/18/14 22:01	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	130 %		50-150	1		06/18/14 22:01	17060-07-0	
Toluene-d8 (S)	72 %		50-150	1		06/18/14 22:01	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

<b>Sample: MW-42</b>		<b>Lab ID: 92205025005</b>	Collected: 06/10/14 17:25	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND	ug/L	10.0	1	06/13/14 00:00	06/18/14 18:10	92-52-4	
Diphenyl ether (Phenyl ether)	<b>24.9</b>	ug/L	10.0	1	06/13/14 00:00	06/18/14 18:10	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	48	%	21-110	1	06/13/14 00:00	06/18/14 18:10	4165-60-0	
2-Fluorobiphenyl (S)	52	%	27-110	1	06/13/14 00:00	06/18/14 18:10	321-60-8	
Terphenyl-d14 (S)	48	%	31-107	1	06/13/14 00:00	06/18/14 18:10	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>16.3</b>	ug/L	2.0	1		06/18/14 22:23	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	131	%	50-150	1		06/18/14 22:23	17060-07-0	
Toluene-d8 (S)	72	%	50-150	1		06/18/14 22:23	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: MW-09A		Lab ID: 92205025006	Collected: 06/10/14 17:55	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	51.5 ug/L		2.0	1		06/18/14 22:44	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	140 %		50-150	1		06/18/14 22:44	17060-07-0	
Toluene-d8 (S)	72 %		50-150	1		06/18/14 22:44	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: MW-39	Lab ID: 92205025007	Collected: 06/10/14 18:30	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	<b>1140</b> ug/L		500	50	06/13/14 00:00	06/25/14 11:16	92-52-4	
Diphenyl ether (Phenyl ether)	<b>3710</b> ug/L		500	50	06/13/14 00:00	06/25/14 11:16	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	50 %		21-110	1	06/13/14 00:00	06/18/14 18:42	4165-60-0	
2-Fluorobiphenyl (S)	59 %		27-110	1	06/13/14 00:00	06/18/14 18:42	321-60-8	
Terphenyl-d14 (S)	57 %		31-107	1	06/13/14 00:00	06/18/14 18:42	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>554</b> ug/L		20.0	10		06/18/14 23:05	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	138 %		50-150	10		06/18/14 23:05	17060-07-0	
Toluene-d8 (S)	72 %		50-150	10		06/18/14 23:05	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: <b>RW-79</b>		Lab ID: <b>92205025008</b>	Collected: 06/10/14 18:53	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/13/14 00:00	06/18/14 19:13	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/13/14 00:00	06/18/14 19:13	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	22 %		21-110	1	06/13/14 00:00	06/18/14 19:13	4165-60-0	
2-Fluorobiphenyl (S)	26 %		27-110	1	06/13/14 00:00	06/18/14 19:13	321-60-8	S0
Terphenyl-d14 (S)	49 %		31-107	1	06/13/14 00:00	06/18/14 19:13	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	5.5 ug/L		2.0	1		06/18/14 23:26	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	129 %		50-150	1		06/18/14 23:26	17060-07-0	
Toluene-d8 (S)	71 %		50-150	1		06/18/14 23:26	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: RW-80</b>								
<b>Lab ID: 92205025009</b>								
Collected: 06/11/14 08:55 Received: 06/12/14 07:40 Matrix: Water								
<b>8270 MSSV Semivolatile Organic</b>								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	<b>42.0</b>	ug/L	10.0	1	06/13/14 00:00	06/18/14 19:44	92-52-4	
Diphenyl ether (Phenyl ether)	<b>312</b>	ug/L	50.0	5	06/13/14 00:00	06/27/14 10:55	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	27 %		21-110	1	06/13/14 00:00	06/18/14 19:44	4165-60-0	
2-Fluorobiphenyl (S)	29 %		27-110	1	06/13/14 00:00	06/18/14 19:44	321-60-8	
Terphenyl-d14 (S)	54 %		31-107	1	06/13/14 00:00	06/18/14 19:44	1718-51-0	
<b>8260 MSV SIM</b>								
Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	<b>6760</b>	ug/L	400	200		06/19/14 16:26	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	126 %		50-150	20		06/18/14 23:47	17060-07-0	
Toluene-d8 (S)	72 %		50-150	20		06/18/14 23:47	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

<b>Sample: MW-53</b>		<b>Lab ID: 92205025010</b>	Collected: 06/11/14 09:00	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	<b>144</b> ug/L		100	10	06/13/14 00:00	06/23/14 17:52	92-52-4	
Diphenyl ether (Phenyl ether)	<b>543</b> ug/L		100	10	06/13/14 00:00	06/23/14 17:52	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	29 %		21-110	1	06/13/14 00:00	06/18/14 20:15	4165-60-0	
2-Fluorobiphenyl (S)	31 %		27-110	1	06/13/14 00:00	06/18/14 20:15	321-60-8	
Terphenyl-d14 (S)	61 %		31-107	1	06/13/14 00:00	06/18/14 20:15	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>8940</b> ug/L		400	200		06/19/14 16:47	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	140 %		50-150	5		06/19/14 00:09	17060-07-0	
Toluene-d8 (S)	71 %		50-150	5		06/19/14 00:09	2037-26-5	

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### ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: RW-82	Lab ID: 92205025011	Collected: 06/11/14 09:35	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/13/14 00:00	06/18/14 20:46	92-52-4	
Diphenyl ether (Phenyl ether)	<b>439</b> ug/L		100	10	06/13/14 00:00	06/23/14 18:23	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	35 %		21-110	1	06/13/14 00:00	06/18/14 20:46	4165-60-0	
2-Fluorobiphenyl (S)	37 %		27-110	1	06/13/14 00:00	06/18/14 20:46	321-60-8	
Terphenyl-d14 (S)	68 %		31-107	1	06/13/14 00:00	06/18/14 20:46	1718-51-0	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	<b>589</b> ug/L		20.0	10		06/19/14 17:09	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	139 %		50-150	1		06/19/14 00:30	17060-07-0	
Toluene-d8 (S)	72 %		50-150	1		06/19/14 00:30	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

<b>Sample: DW-4</b>		<b>Lab ID: 92205025012</b>	Collected: 06/11/14 20:00	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/13/14 00:00	06/19/14 15:17	92-52-4	
Diphenyl ether (Phenyl ether)	<b>257</b> ug/L		50.0	5	06/13/14 00:00	06/25/14 11:54	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	24 %		21-110	1	06/13/14 00:00	06/19/14 15:17	4165-60-0	
2-Fluorobiphenyl (S)	24 %		27-110	1	06/13/14 00:00	06/19/14 15:17	321-60-8	S0
Terphenyl-d14 (S)	53 %		31-107	1	06/13/14 00:00	06/19/14 15:17	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>496</b> ug/L		10.0	5		06/20/14 16:14	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96 %		50-150	5		06/20/14 16:14	17060-07-0	
Toluene-d8 (S)	99 %		50-150	5		06/20/14 16:14	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

<b>Sample: RW-86</b>		<b>Lab ID: 92205025013</b>	Collected: 06/11/14 10:15	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	<b>353</b> ug/L		200	20	06/13/14 00:00	06/23/14 18:54	92-52-4	
Diphenyl ether (Phenyl ether)	<b>1400</b> ug/L		200	20	06/13/14 00:00	06/23/14 18:54	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	58 %		21-110	1	06/13/14 00:00	06/18/14 21:48	4165-60-0	
2-Fluorobiphenyl (S)	67 %		27-110	1	06/13/14 00:00	06/18/14 21:48	321-60-8	
Terphenyl-d14 (S)	78 %		31-107	1	06/13/14 00:00	06/18/14 21:48	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>7280</b> ug/L		200	100		06/20/14 16:35	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101 %		50-150	100		06/20/14 16:35	17060-07-0	
Toluene-d8 (S)	99 %		50-150	100		06/20/14 16:35	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

<b>Sample: MW-07</b>		<b>Lab ID: 92205025014</b>	Collected: 06/11/14 11:00	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	<b>1070</b> ug/L		500	50	06/13/14 00:00	06/23/14 19:26	92-52-4	
Diphenyl ether (Phenyl ether)	<b>4160</b> ug/L		500	50	06/13/14 00:00	06/23/14 19:26	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	42 %		21-110	1	06/13/14 00:00	06/19/14 15:48	4165-60-0	
2-Fluorobiphenyl (S)	47 %		27-110	1	06/13/14 00:00	06/19/14 15:48	321-60-8	
Terphenyl-d14 (S)	55 %		31-107	1	06/13/14 00:00	06/19/14 15:48	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>81.3</b> ug/L		10.0	5		06/20/14 16:57	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	94 %		50-150	5		06/20/14 16:57	17060-07-0	
Toluene-d8 (S)	99 %		50-150	5		06/20/14 16:57	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

<b>Sample: RW-92</b>		<b>Lab ID: 92205025015</b>	Collected: 06/11/14 13:15	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	21.1 ug/L		10.0	1	06/13/14 00:00	06/19/14 16:52	92-52-4	
Diphenyl ether (Phenyl ether)	1760 ug/L		200	20	06/13/14 00:00	06/23/14 19:57	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	66 %		21-110	1	06/13/14 00:00	06/19/14 16:52	4165-60-0	
2-Fluorobiphenyl (S)	70 %		27-110	1	06/13/14 00:00	06/19/14 16:52	321-60-8	
Terphenyl-d14 (S)	75 %		31-107	1	06/13/14 00:00	06/19/14 16:52	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	3460 ug/L		100	50		06/20/14 17:18	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	103 %		50-150	50		06/20/14 17:18	17060-07-0	
Toluene-d8 (S)	99 %		50-150	50		06/20/14 17:18	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: RW-91		Lab ID: 92205025016	Collected: 06/11/14 13:30	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	89.1 ug/L		10.0	1	06/13/14 00:00	06/19/14 17:24	92-52-4	
Diphenyl ether (Phenyl ether)	288 ug/L		50.0	5	06/13/14 00:00	06/23/14 20:28	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	65 %		21-110	1	06/13/14 00:00	06/19/14 17:24	4165-60-0	
2-Fluorobiphenyl (S)	66 %		27-110	1	06/13/14 00:00	06/19/14 17:24	321-60-8	
Terphenyl-d14 (S)	70 %		31-107	1	06/13/14 00:00	06/19/14 17:24	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	3230 ug/L		100	50		06/20/14 17:40	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98 %		50-150	50		06/20/14 17:40	17060-07-0	
Toluene-d8 (S)	99 %		50-150	50		06/20/14 17:40	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

<b>Sample: MW-05</b>		<b>Lab ID: 92205025017</b>	Collected: 06/11/14 14:20	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	<b>23.9</b> ug/L		10.0	1	06/13/14 00:00	06/24/14 15:01	92-52-4	
Diphenyl ether (Phenyl ether)	<b>142</b> ug/L		20.0	2	06/13/14 00:00	06/25/14 10:39	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	36 %		21-110	1	06/13/14 00:00	06/24/14 15:01	4165-60-0	
2-Fluorobiphenyl (S)	47 %		27-110	1	06/13/14 00:00	06/24/14 15:01	321-60-8	
Terphenyl-d14 (S)	68 %		31-107	1	06/13/14 00:00	06/24/14 15:01	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>1350</b> ug/L		50.0	25		06/20/14 18:01	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101 %		50-150	25		06/20/14 18:01	17060-07-0	
Toluene-d8 (S)	100 %		50-150	25		06/20/14 18:01	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: RW-133		Lab ID: 92205025018	Collected: 06/10/14 18:45	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	4.1 mg/L		1.0	1		06/12/14 14:00	16887-00-6	M1
Nitrate as N	0.76 mg/L		0.10	1		06/12/14 14:00	14797-55-8	M1
Nitrite as N	ND mg/L		0.10	1		06/12/14 14:00	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/12/14 14:00		
Sulfate	1.8 mg/L		1.0	1		06/12/14 14:00	14808-79-8	M1
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 02:20	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 02:20	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 02:20	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 02:20	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/20/14 02:20	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	183 ug/L		5.0	1	06/17/14 14:34	06/18/14 00:41	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/16/14 19:25	67-64-1	
Benzene	ND ug/L		5.0	1		06/16/14 19:25	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/16/14 19:25	75-27-4	
Bromoform	ND ug/L		5.0	1		06/16/14 19:25	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/16/14 19:25	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/16/14 19:25	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/16/14 19:25	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/16/14 19:25	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/16/14 19:25	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/16/14 19:25	75-00-3	
Chloroform	64.5 ug/L		5.0	1		06/16/14 19:25	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/16/14 19:25	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/16/14 19:25	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/16/14 19:25	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/16/14 19:25	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/16/14 19:25	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 19:25	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 19:25	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 19:25	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/16/14 19:25	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/16/14 19:25	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/16/14 19:25	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/16/14 19:25	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 19:25	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 19:25	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/16/14 19:25	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 19:25	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 19:25	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/16/14 19:25	100-41-4	

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### ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

<b>Sample: RW-133</b>		<b>Lab ID: 92205025018</b>	Collected: 06/10/14 18:45	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND ug/L		10.0	1		06/16/14 19:25	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/16/14 19:25	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/16/14 19:25	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/16/14 19:25	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/16/14 19:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/16/14 19:25	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/16/14 19:25	1634-04-4	
Styrene	ND ug/L		5.0	1		06/16/14 19:25	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/16/14 19:25	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/16/14 19:25	127-18-4	
Toluene	ND ug/L		5.0	1		06/16/14 19:25	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/16/14 19:25	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/16/14 19:25	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/16/14 19:25	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/16/14 19:25	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/16/14 19:25	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/16/14 19:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/16/14 19:25	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/16/14 19:25	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/16/14 19:25	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/16/14 19:25	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100 %		70-130	1		06/16/14 19:25	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		06/16/14 19:25	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/16/14 19:25	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	<b>103</b> mg/L		5.0	1		06/17/14 15:49		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/17/14 15:17	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-11	Lab ID: 92205025019	Collected: 06/11/14 07:55	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 14:03	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 14:03	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	39 %		21-110	1	06/24/14 15:36	06/26/14 14:03	4165-60-0	H5
2-Fluorobiphenyl (S)	34 %		27-110	1	06/24/14 15:36	06/26/14 14:03	321-60-8	
Terphenyl-d14 (S)	51 %		31-107	1	06/24/14 15:36	06/26/14 14:03	1718-51-0	
<b>8260 MSV</b>								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/16/14 20:12	67-64-1	
Benzene	ND ug/L		5.0	1		06/16/14 20:12	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/16/14 20:12	75-27-4	
Bromoform	ND ug/L		5.0	1		06/16/14 20:12	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/16/14 20:12	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/16/14 20:12	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/16/14 20:12	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/16/14 20:12	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/16/14 20:12	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/16/14 20:12	75-00-3	
Chloroform	ND ug/L		5.0	1		06/16/14 20:12	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/16/14 20:12	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/16/14 20:12	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/16/14 20:12	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/16/14 20:12	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/16/14 20:12	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 20:12	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 20:12	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 20:12	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/16/14 20:12	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/16/14 20:12	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/16/14 20:12	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/16/14 20:12	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 20:12	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 20:12	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/16/14 20:12	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 20:12	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 20:12	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/16/14 20:12	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/16/14 20:12	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/16/14 20:12	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/16/14 20:12	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/16/14 20:12	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/16/14 20:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/16/14 20:12	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/16/14 20:12	1634-04-4	
Styrene	ND ug/L		5.0	1		06/16/14 20:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/16/14 20:12	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/16/14 20:12	127-18-4	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-11	Lab ID: 92205025019	Collected: 06/11/14 07:55	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Toluene	ND ug/L		5.0	1		06/16/14 20:12	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/16/14 20:12	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/16/14 20:12	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/16/14 20:12	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/16/14 20:12	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/16/14 20:12	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/16/14 20:12	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/16/14 20:12	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/16/14 20:12	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/16/14 20:12	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/16/14 20:12	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100 %		70-130	1		06/16/14 20:12	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		06/16/14 20:12	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/16/14 20:12	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		06/16/14 19:55	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	141 %		50-150	1		06/16/14 19:55	17060-07-0	
Toluene-d8 (S)	56 %		50-150	1		06/16/14 19:55	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-10	Lab ID: 92205025020	Collected: 06/11/14 09:30	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/13/14 00:00	06/19/14 18:27	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/13/14 00:00	06/19/14 18:27	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	43 %		21-110	1	06/13/14 00:00	06/19/14 18:27	4165-60-0	
2-Fluorobiphenyl (S)	48 %		27-110	1	06/13/14 00:00	06/19/14 18:27	321-60-8	
Terphenyl-d14 (S)	75 %		31-107	1	06/13/14 00:00	06/19/14 18:27	1718-51-0	
<b>8260 MSV</b>								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/16/14 20:28	67-64-1	
Benzene	ND ug/L		5.0	1		06/16/14 20:28	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/16/14 20:28	75-27-4	
Bromoform	ND ug/L		5.0	1		06/16/14 20:28	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/16/14 20:28	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/16/14 20:28	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/16/14 20:28	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/16/14 20:28	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/16/14 20:28	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/16/14 20:28	75-00-3	
Chloroform	ND ug/L		5.0	1		06/16/14 20:28	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/16/14 20:28	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/16/14 20:28	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/16/14 20:28	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/16/14 20:28	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/16/14 20:28	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 20:28	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 20:28	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 20:28	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/16/14 20:28	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/16/14 20:28	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/16/14 20:28	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/16/14 20:28	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 20:28	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 20:28	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/16/14 20:28	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 20:28	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 20:28	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/16/14 20:28	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/16/14 20:28	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/16/14 20:28	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/16/14 20:28	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/16/14 20:28	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/16/14 20:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/16/14 20:28	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/16/14 20:28	1634-04-4	
Styrene	ND ug/L		5.0	1		06/16/14 20:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/16/14 20:28	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/16/14 20:28	127-18-4	

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### ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-10	Lab ID: 92205025020	Collected: 06/11/14 09:30	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Toluene	ND	ug/L	5.0	1		06/16/14 20:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/16/14 20:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/16/14 20:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/16/14 20:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/16/14 20:28	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/16/14 20:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/16/14 20:28	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/16/14 20:28	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/16/14 20:28	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/16/14 20:28	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/16/14 20:28	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101	%	70-130	1		06/16/14 20:28	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		06/16/14 20:28	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		06/16/14 20:28	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	17.0	ug/L	2.0	1		06/17/14 18:13	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	112	%	50-150	1		06/17/14 18:13	17060-07-0	
Toluene-d8 (S)	89	%	50-150	1		06/17/14 18:13	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-9	Lab ID: 92205025021	Collected: 06/11/14 10:15	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/23/14 16:20	06/24/14 19:11	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/23/14 16:20	06/24/14 19:11	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	52 %		21-110	1	06/23/14 16:20	06/24/14 19:11	4165-60-0	H5
2-Fluorobiphenyl (S)	65 %		27-110	1	06/23/14 16:20	06/24/14 19:11	321-60-8	
Terphenyl-d14 (S)	76 %		31-107	1	06/23/14 16:20	06/24/14 19:11	1718-51-0	
<b>8260 MSV</b>								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/16/14 20:43	67-64-1	
Benzene	ND ug/L		5.0	1		06/16/14 20:43	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/16/14 20:43	75-27-4	
Bromoform	ND ug/L		5.0	1		06/16/14 20:43	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/16/14 20:43	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/16/14 20:43	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/16/14 20:43	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/16/14 20:43	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/16/14 20:43	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/16/14 20:43	75-00-3	
Chloroform	ND ug/L		5.0	1		06/16/14 20:43	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/16/14 20:43	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/16/14 20:43	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/16/14 20:43	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/16/14 20:43	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/16/14 20:43	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 20:43	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 20:43	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 20:43	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/16/14 20:43	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/16/14 20:43	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/16/14 20:43	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/16/14 20:43	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 20:43	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 20:43	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/16/14 20:43	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 20:43	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 20:43	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/16/14 20:43	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/16/14 20:43	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/16/14 20:43	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/16/14 20:43	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/16/14 20:43	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/16/14 20:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/16/14 20:43	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/16/14 20:43	1634-04-4	
Styrene	ND ug/L		5.0	1		06/16/14 20:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/16/14 20:43	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/16/14 20:43	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-9	Lab ID: 92205025021	Collected: 06/11/14 10:15	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Toluene	ND ug/L		5.0	1		06/16/14 20:43	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/16/14 20:43	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/16/14 20:43	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/16/14 20:43	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/16/14 20:43	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/16/14 20:43	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/16/14 20:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/16/14 20:43	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/16/14 20:43	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/16/14 20:43	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/16/14 20:43	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100 %		70-130	1		06/16/14 20:43	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		06/16/14 20:43	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		06/16/14 20:43	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	2.4 ug/L		2.0	1		06/16/14 20:37	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	183 %		50-150	1		06/16/14 20:37	17060-07-0	S5
Toluene-d8 (S)	55 %		50-150	1		06/16/14 20:37	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-8	Lab ID: 92205025022	Collected: 06/11/14 10:50	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/13/14 00:00	06/19/14 18:58	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/13/14 00:00	06/19/14 18:58	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	63 %		21-110	1	06/13/14 00:00	06/19/14 18:58	4165-60-0	
2-Fluorobiphenyl (S)	68 %		27-110	1	06/13/14 00:00	06/19/14 18:58	321-60-8	
Terphenyl-d14 (S)	77 %		31-107	1	06/13/14 00:00	06/19/14 18:58	1718-51-0	
<b>8260 MSV</b>								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/16/14 20:59	67-64-1	
Benzene	ND ug/L		5.0	1		06/16/14 20:59	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/16/14 20:59	75-27-4	
Bromoform	ND ug/L		5.0	1		06/16/14 20:59	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/16/14 20:59	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/16/14 20:59	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/16/14 20:59	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/16/14 20:59	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/16/14 20:59	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/16/14 20:59	75-00-3	
Chloroform	ND ug/L		5.0	1		06/16/14 20:59	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/16/14 20:59	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/16/14 20:59	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/16/14 20:59	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/16/14 20:59	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/16/14 20:59	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 20:59	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 20:59	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 20:59	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/16/14 20:59	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/16/14 20:59	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/16/14 20:59	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/16/14 20:59	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 20:59	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 20:59	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/16/14 20:59	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 20:59	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 20:59	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/16/14 20:59	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/16/14 20:59	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/16/14 20:59	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/16/14 20:59	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/16/14 20:59	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/16/14 20:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/16/14 20:59	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/16/14 20:59	1634-04-4	
Styrene	ND ug/L		5.0	1		06/16/14 20:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/16/14 20:59	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/16/14 20:59	127-18-4	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-8		Lab ID: 92205025022	Collected: 06/11/14 10:50	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Toluene	ND	ug/L	5.0	1		06/16/14 20:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/16/14 20:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/16/14 20:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/16/14 20:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/16/14 20:59	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/16/14 20:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/16/14 20:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/16/14 20:59	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/16/14 20:59	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/16/14 20:59	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/16/14 20:59	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102 %		70-130	1		06/16/14 20:59	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		06/16/14 20:59	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/16/14 20:59	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		06/16/14 20:59	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	137 %		50-150	1		06/16/14 20:59	17060-07-0	
Toluene-d8 (S)	55 %		50-150	1		06/16/14 20:59	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-7	Lab ID: 92205025023	Collected: 06/11/14 11:25	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/13/14 00:00	06/19/14 19:30	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/13/14 00:00	06/19/14 19:30	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	56 %		21-110	1	06/13/14 00:00	06/19/14 19:30	4165-60-0	
2-Fluorobiphenyl (S)	60 %		27-110	1	06/13/14 00:00	06/19/14 19:30	321-60-8	
Terphenyl-d14 (S)	69 %		31-107	1	06/13/14 00:00	06/19/14 19:30	1718-51-0	
<b>8260 MSV</b>								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/16/14 21:14	67-64-1	
Benzene	ND ug/L		5.0	1		06/16/14 21:14	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/16/14 21:14	75-27-4	
Bromoform	ND ug/L		5.0	1		06/16/14 21:14	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/16/14 21:14	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/16/14 21:14	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/16/14 21:14	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/16/14 21:14	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/16/14 21:14	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/16/14 21:14	75-00-3	
Chloroform	ND ug/L		5.0	1		06/16/14 21:14	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/16/14 21:14	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/16/14 21:14	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/16/14 21:14	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/16/14 21:14	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/16/14 21:14	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 21:14	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 21:14	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 21:14	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/16/14 21:14	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/16/14 21:14	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/16/14 21:14	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/16/14 21:14	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 21:14	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 21:14	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/16/14 21:14	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 21:14	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 21:14	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/16/14 21:14	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/16/14 21:14	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/16/14 21:14	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/16/14 21:14	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/16/14 21:14	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/16/14 21:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/16/14 21:14	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/16/14 21:14	1634-04-4	
Styrene	ND ug/L		5.0	1		06/16/14 21:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/16/14 21:14	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/16/14 21:14	127-18-4	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-7		Lab ID: 92205025023	Collected: 06/11/14 11:25	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Toluene	ND	ug/L	5.0	1		06/16/14 21:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/16/14 21:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/16/14 21:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/16/14 21:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/16/14 21:14	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/16/14 21:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/16/14 21:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/16/14 21:14	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/16/14 21:14	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/16/14 21:14	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/16/14 21:14	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100 %		70-130	1		06/16/14 21:14	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130	1		06/16/14 21:14	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/16/14 21:14	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		06/16/14 21:20	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	141 %		50-150	1		06/16/14 21:20	17060-07-0	
Toluene-d8 (S)	56 %		50-150	1		06/16/14 21:20	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-5	Lab ID: 92205025024	Collected: 06/11/14 12:00	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/13/14 00:00	06/19/14 20:01	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/13/14 00:00	06/19/14 20:01	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	50 %		21-110	1	06/13/14 00:00	06/19/14 20:01	4165-60-0	
2-Fluorobiphenyl (S)	55 %		27-110	1	06/13/14 00:00	06/19/14 20:01	321-60-8	
Terphenyl-d14 (S)	68 %		31-107	1	06/13/14 00:00	06/19/14 20:01	1718-51-0	
<b>8260 MSV</b>								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/16/14 21:30	67-64-1	
Benzene	ND ug/L		5.0	1		06/16/14 21:30	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/16/14 21:30	75-27-4	
Bromoform	ND ug/L		5.0	1		06/16/14 21:30	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/16/14 21:30	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/16/14 21:30	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/16/14 21:30	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/16/14 21:30	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/16/14 21:30	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/16/14 21:30	75-00-3	
Chloroform	ND ug/L		5.0	1		06/16/14 21:30	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/16/14 21:30	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/16/14 21:30	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/16/14 21:30	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/16/14 21:30	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/16/14 21:30	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 21:30	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 21:30	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 21:30	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/16/14 21:30	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/16/14 21:30	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/16/14 21:30	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/16/14 21:30	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 21:30	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 21:30	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/16/14 21:30	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 21:30	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 21:30	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/16/14 21:30	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/16/14 21:30	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/16/14 21:30	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/16/14 21:30	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/16/14 21:30	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/16/14 21:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/16/14 21:30	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/16/14 21:30	1634-04-4	
Styrene	ND ug/L		5.0	1		06/16/14 21:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/16/14 21:30	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/16/14 21:30	127-18-4	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-5		Lab ID: 92205025024	Collected: 06/11/14 12:00	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Toluene	ND	ug/L	5.0	1		06/16/14 21:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/16/14 21:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/16/14 21:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/16/14 21:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/16/14 21:30	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/16/14 21:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/16/14 21:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/16/14 21:30	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/16/14 21:30	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/16/14 21:30	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/16/14 21:30	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101 %		70-130	1		06/16/14 21:30	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		06/16/14 21:30	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		06/16/14 21:30	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	11.9	ug/L	2.0	1		06/16/14 21:41	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	139 %		50-150	1		06/16/14 21:41	17060-07-0	
Toluene-d8 (S)	56 %		50-150	1		06/16/14 21:41	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-6	Lab ID: 92205025025	Collected: 06/11/14 12:35	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 15:30	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 15:30	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	81 %		21-110	1	06/24/14 15:36	06/26/14 15:30	4165-60-0	H5
2-Fluorobiphenyl (S)	77 %		27-110	1	06/24/14 15:36	06/26/14 15:30	321-60-8	
Terphenyl-d14 (S)	87 %		31-107	1	06/24/14 15:36	06/26/14 15:30	1718-51-0	
<b>8260 MSV</b>								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/16/14 21:46	67-64-1	
Benzene	ND ug/L		5.0	1		06/16/14 21:46	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/16/14 21:46	75-27-4	
Bromoform	ND ug/L		5.0	1		06/16/14 21:46	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/16/14 21:46	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/16/14 21:46	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/16/14 21:46	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/16/14 21:46	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/16/14 21:46	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/16/14 21:46	75-00-3	
Chloroform	ND ug/L		5.0	1		06/16/14 21:46	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/16/14 21:46	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/16/14 21:46	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/16/14 21:46	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/16/14 21:46	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/16/14 21:46	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 21:46	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 21:46	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 21:46	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/16/14 21:46	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/16/14 21:46	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/16/14 21:46	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/16/14 21:46	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 21:46	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 21:46	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/16/14 21:46	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 21:46	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 21:46	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/16/14 21:46	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/16/14 21:46	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/16/14 21:46	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/16/14 21:46	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/16/14 21:46	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/16/14 21:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/16/14 21:46	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/16/14 21:46	1634-04-4	
Styrene	ND ug/L		5.0	1		06/16/14 21:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/16/14 21:46	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/16/14 21:46	127-18-4	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: <b>SW-6</b>	Lab ID: <b>92205025025</b>	Collected: 06/11/14 12:35	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Toluene	ND ug/L		5.0	1		06/16/14 21:46	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/16/14 21:46	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/16/14 21:46	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/16/14 21:46	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/16/14 21:46	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/16/14 21:46	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/16/14 21:46	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/16/14 21:46	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/16/14 21:46	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/16/14 21:46	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/16/14 21:46	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102 %		70-130	1		06/16/14 21:46	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/16/14 21:46	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/16/14 21:46	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>2.2</b> ug/L		2.0	1		06/16/14 22:02	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	137 %		50-150	1		06/16/14 22:02	17060-07-0	
Toluene-d8 (S)	55 %		50-150	1		06/16/14 22:02	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-4	Lab ID: 92205025026	Collected: 06/11/14 13:30	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/16/14 15:10	06/24/14 16:35	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/16/14 15:10	06/24/14 16:35	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	45 %		21-110	1	06/16/14 15:10	06/24/14 16:35	4165-60-0	P2
2-Fluorobiphenyl (S)	51 %		27-110	1	06/16/14 15:10	06/24/14 16:35	321-60-8	
Terphenyl-d14 (S)	59 %		31-107	1	06/16/14 15:10	06/24/14 16:35	1718-51-0	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/16/14 22:01	67-64-1	
Benzene	ND ug/L		5.0	1		06/16/14 22:01	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/16/14 22:01	75-27-4	
Bromoform	ND ug/L		5.0	1		06/16/14 22:01	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/16/14 22:01	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/16/14 22:01	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/16/14 22:01	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/16/14 22:01	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/16/14 22:01	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/16/14 22:01	75-00-3	
Chloroform	ND ug/L		5.0	1		06/16/14 22:01	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/16/14 22:01	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/16/14 22:01	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/16/14 22:01	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/16/14 22:01	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/16/14 22:01	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 22:01	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 22:01	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 22:01	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/16/14 22:01	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/16/14 22:01	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/16/14 22:01	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/16/14 22:01	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 22:01	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 22:01	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/16/14 22:01	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 22:01	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 22:01	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/16/14 22:01	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/16/14 22:01	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/16/14 22:01	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/16/14 22:01	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/16/14 22:01	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/16/14 22:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/16/14 22:01	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/16/14 22:01	1634-04-4	
Styrene	ND ug/L		5.0	1		06/16/14 22:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/16/14 22:01	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/16/14 22:01	127-18-4	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: <b>SW-4</b>	Lab ID: <b>92205025026</b>	Collected: 06/11/14 13:30	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Toluene	ND ug/L		5.0	1		06/16/14 22:01	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/16/14 22:01	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/16/14 22:01	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/16/14 22:01	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/16/14 22:01	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/16/14 22:01	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/16/14 22:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/16/14 22:01	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/16/14 22:01	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/16/14 22:01	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/16/14 22:01	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101 %		70-130	1		06/16/14 22:01	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		06/16/14 22:01	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/16/14 22:01	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>2.1</b> ug/L		2.0	1		06/16/14 22:23	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	137 %		50-150	1		06/16/14 22:23	17060-07-0	
Toluene-d8 (S)	55 %		50-150	1		06/16/14 22:23	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-3	Lab ID: 92205025027	Collected: 06/11/14 13:50	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 15:59	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 15:59	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	40 %		21-110	1	06/24/14 15:36	06/26/14 15:59	4165-60-0	H5
2-Fluorobiphenyl (S)	35 %		27-110	1	06/24/14 15:36	06/26/14 15:59	321-60-8	
Terphenyl-d14 (S)	62 %		31-107	1	06/24/14 15:36	06/26/14 15:59	1718-51-0	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/16/14 22:17	67-64-1	
Benzene	ND ug/L		5.0	1		06/16/14 22:17	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/16/14 22:17	75-27-4	
Bromoform	ND ug/L		5.0	1		06/16/14 22:17	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/16/14 22:17	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/16/14 22:17	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/16/14 22:17	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/16/14 22:17	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/16/14 22:17	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/16/14 22:17	75-00-3	
Chloroform	ND ug/L		5.0	1		06/16/14 22:17	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/16/14 22:17	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/16/14 22:17	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/16/14 22:17	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/16/14 22:17	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/16/14 22:17	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 22:17	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 22:17	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 22:17	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/16/14 22:17	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/16/14 22:17	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/16/14 22:17	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/16/14 22:17	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 22:17	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 22:17	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/16/14 22:17	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 22:17	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 22:17	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/16/14 22:17	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/16/14 22:17	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/16/14 22:17	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/16/14 22:17	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/16/14 22:17	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/16/14 22:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/16/14 22:17	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/16/14 22:17	1634-04-4	
Styrene	ND ug/L		5.0	1		06/16/14 22:17	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/16/14 22:17	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/16/14 22:17	127-18-4	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-3		Lab ID: 92205025027	Collected: 06/11/14 13:50	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Toluene	ND	ug/L	5.0	1		06/16/14 22:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/16/14 22:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/16/14 22:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/16/14 22:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/16/14 22:17	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/16/14 22:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/16/14 22:17	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/16/14 22:17	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/16/14 22:17	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/16/14 22:17	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/16/14 22:17	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101 %		70-130	1		06/16/14 22:17	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/16/14 22:17	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/16/14 22:17	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		06/16/14 22:44	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	142 %		50-150	1		06/16/14 22:44	17060-07-0	
Toluene-d8 (S)	55 %		50-150	1		06/16/14 22:44	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-2	Lab ID: 92205025028	Collected: 06/11/14 14:25	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 16:29	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 16:29	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	76 %		21-110	1	06/24/14 15:36	06/26/14 16:29	4165-60-0	H5
2-Fluorobiphenyl (S)	71 %		27-110	1	06/24/14 15:36	06/26/14 16:29	321-60-8	
Terphenyl-d14 (S)	79 %		31-107	1	06/24/14 15:36	06/26/14 16:29	1718-51-0	
<b>8260 MSV</b>								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/16/14 22:32	67-64-1	
Benzene	ND ug/L		5.0	1		06/16/14 22:32	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/16/14 22:32	75-27-4	
Bromoform	ND ug/L		5.0	1		06/16/14 22:32	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/16/14 22:32	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/16/14 22:32	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/16/14 22:32	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/16/14 22:32	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/16/14 22:32	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/16/14 22:32	75-00-3	
Chloroform	ND ug/L		5.0	1		06/16/14 22:32	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/16/14 22:32	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/16/14 22:32	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/16/14 22:32	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/16/14 22:32	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/16/14 22:32	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 22:32	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 22:32	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 22:32	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/16/14 22:32	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/16/14 22:32	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/16/14 22:32	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/16/14 22:32	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 22:32	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 22:32	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/16/14 22:32	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 22:32	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 22:32	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/16/14 22:32	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/16/14 22:32	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/16/14 22:32	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/16/14 22:32	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/16/14 22:32	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/16/14 22:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/16/14 22:32	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/16/14 22:32	1634-04-4	
Styrene	ND ug/L		5.0	1		06/16/14 22:32	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/16/14 22:32	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/16/14 22:32	127-18-4	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-2	Lab ID: 92205025028	Collected: 06/11/14 14:25	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Toluene	ND ug/L		5.0	1		06/16/14 22:32	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/16/14 22:32	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/16/14 22:32	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/16/14 22:32	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/16/14 22:32	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/16/14 22:32	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/16/14 22:32	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/16/14 22:32	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/16/14 22:32	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/16/14 22:32	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/16/14 22:32	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	103 %		70-130	1		06/16/14 22:32	460-00-4	
1,2-Dichloroethane-d4 (S)	101 %		70-130	1		06/16/14 22:32	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		06/16/14 22:32	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		06/17/14 18:34	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	123 %		50-150	1		06/17/14 18:34	17060-07-0	
Toluene-d8 (S)	88 %		50-150	1		06/17/14 18:34	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-1	Lab ID: 92205025029	Collected: 06/11/14 15:00	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 16:58	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 16:58	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	73 %		21-110	1	06/24/14 15:36	06/26/14 16:58	4165-60-0	H5
2-Fluorobiphenyl (S)	67 %		27-110	1	06/24/14 15:36	06/26/14 16:58	321-60-8	
Terphenyl-d14 (S)	77 %		31-107	1	06/24/14 15:36	06/26/14 16:58	1718-51-0	
<b>8260 MSV</b>								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/16/14 22:48	67-64-1	
Benzene	ND ug/L		5.0	1		06/16/14 22:48	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/16/14 22:48	75-27-4	
Bromoform	ND ug/L		5.0	1		06/16/14 22:48	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/16/14 22:48	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/16/14 22:48	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/16/14 22:48	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/16/14 22:48	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/16/14 22:48	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/16/14 22:48	75-00-3	
Chloroform	ND ug/L		5.0	1		06/16/14 22:48	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/16/14 22:48	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/16/14 22:48	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/16/14 22:48	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/16/14 22:48	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/16/14 22:48	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 22:48	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 22:48	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 22:48	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/16/14 22:48	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/16/14 22:48	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/16/14 22:48	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/16/14 22:48	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 22:48	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/16/14 22:48	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/16/14 22:48	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 22:48	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/16/14 22:48	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/16/14 22:48	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/16/14 22:48	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/16/14 22:48	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/16/14 22:48	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/16/14 22:48	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/16/14 22:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/16/14 22:48	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/16/14 22:48	1634-04-4	
Styrene	ND ug/L		5.0	1		06/16/14 22:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/16/14 22:48	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/16/14 22:48	127-18-4	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-1		Lab ID: 92205025029	Collected: 06/11/14 15:00	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Toluene	ND	ug/L	5.0	1		06/16/14 22:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/16/14 22:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/16/14 22:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/16/14 22:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/16/14 22:48	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/16/14 22:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/16/14 22:48	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/16/14 22:48	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/16/14 22:48	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/16/14 22:48	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/16/14 22:48	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100 %		70-130	1		06/16/14 22:48	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		06/16/14 22:48	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		06/16/14 22:48	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		06/17/14 18:56	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	117 %		50-150	1		06/17/14 18:56	17060-07-0	
Toluene-d8 (S)	87 %		50-150	1		06/17/14 18:56	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: MW-105	Lab ID: 92205025030	Collected: 06/11/14 15:30	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	6.9 mg/L		1.0	1		06/12/14 17:34	16887-00-6	
Nitrate as N	1.7 mg/L		0.10	1		06/12/14 17:34	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/12/14 17:34	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/12/14 17:34		
Sulfate	ND mg/L		1.0	1		06/12/14 17:34	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 04:26	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 04:26	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 04:26	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 04:26	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/20/14 04:26	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	ND ug/L		5.0	1	06/17/14 14:34	06/18/14 00:44	7439-96-5	
<b>8270 MSSV Semivolatile Organic</b> Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 17:27	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 17:27	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	33 %		21-110	1	06/24/14 15:36	06/26/14 17:27	4165-60-0	H5
2-Fluorobiphenyl (S)	29 %		27-110	1	06/24/14 15:36	06/26/14 17:27	321-60-8	
Terphenyl-d14 (S)	43 %		31-107	1	06/24/14 15:36	06/26/14 17:27	1718-51-0	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/16/14 23:04	67-64-1	
Benzene	ND ug/L		5.0	1		06/16/14 23:04	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/16/14 23:04	75-27-4	
Bromoform	ND ug/L		5.0	1		06/16/14 23:04	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/16/14 23:04	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/16/14 23:04	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/16/14 23:04	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/16/14 23:04	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/16/14 23:04	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/16/14 23:04	75-00-3	
Chloroform	129 ug/L		5.0	1		06/16/14 23:04	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/16/14 23:04	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/16/14 23:04	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/16/14 23:04	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/16/14 23:04	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/16/14 23:04	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 23:04	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 23:04	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/16/14 23:04	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/16/14 23:04	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/16/14 23:04	75-34-3	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: MW-105	Lab ID: 92205025030	Collected: 06/11/14 15:30	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
1,2-Dichloroethane	ND	ug/L	5.0	1		06/16/14 23:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/16/14 23:04	75-35-4	
cis-1,2-Dichloroethene	<b>10.5</b>	ug/L	5.0	1		06/16/14 23:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/16/14 23:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/16/14 23:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/16/14 23:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/16/14 23:04	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/16/14 23:04	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/16/14 23:04	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/16/14 23:04	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/16/14 23:04	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/16/14 23:04	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/16/14 23:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/16/14 23:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/16/14 23:04	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/16/14 23:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/16/14 23:04	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/16/14 23:04	127-18-4	
Toluene	ND	ug/L	5.0	1		06/16/14 23:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/16/14 23:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/16/14 23:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/16/14 23:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/16/14 23:04	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/16/14 23:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/16/14 23:04	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/16/14 23:04	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/16/14 23:04	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/16/14 23:04	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/16/14 23:04	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101 %		70-130	1		06/16/14 23:04	460-00-4	
1,2-Dichloroethane-d4 (S)	97 %		70-130	1		06/16/14 23:04	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/16/14 23:04	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>7.1</b>	ug/L	2.0	1		06/20/14 18:22	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99 %		50-150	1		06/20/14 18:22	17060-07-0	
Toluene-d8 (S)	98 %		50-150	1		06/20/14 18:22	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	<b>9.9</b>	mg/L	5.0	1		06/17/14 20:14		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND	mg/L	0.10	1		06/18/14 15:21	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: MW-106	Lab ID: 92205025031	Collected: 06/11/14 15:35	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	4.1 mg/L		1.0	1		06/12/14 19:37	16887-00-6	
Nitrate as N	0.83 mg/L		0.10	1		06/12/14 19:37	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/12/14 19:37	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/12/14 19:37		
Sulfate	ND mg/L		1.0	1		06/12/14 19:37	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 06:00	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 06:00	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 06:00	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 06:00	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/20/14 06:00	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	11.0 ug/L		5.0	1	06/17/14 14:34	06/18/14 00:47	7439-96-5	
<b>8270 MSSV Semivolatile Organic</b> Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 17:56	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 17:56	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	54 %		21-110	1	06/24/14 15:36	06/26/14 17:56	4165-60-0	H5
2-Fluorobiphenyl (S)	50 %		27-110	1	06/24/14 15:36	06/26/14 17:56	321-60-8	
Terphenyl-d14 (S)	54 %		31-107	1	06/24/14 15:36	06/26/14 17:56	1718-51-0	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/17/14 04:16	67-64-1	
Benzene	ND ug/L		5.0	1		06/17/14 04:16	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/17/14 04:16	75-27-4	
Bromoform	ND ug/L		5.0	1		06/17/14 04:16	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/17/14 04:16	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/17/14 04:16	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/17/14 04:16	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/17/14 04:16	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/17/14 04:16	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/17/14 04:16	75-00-3	
Chloroform	21.5 ug/L		5.0	1		06/17/14 04:16	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/17/14 04:16	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/17/14 04:16	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/17/14 04:16	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/17/14 04:16	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/17/14 04:16	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 04:16	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 04:16	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 04:16	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/17/14 04:16	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/17/14 04:16	75-34-3	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: MW-106		Lab ID: 92205025031	Collected: 06/11/14 15:35	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
1,2-Dichloroethane	ND	ug/L	5.0	1		06/17/14 04:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/17/14 04:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/14 04:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/14 04:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/17/14 04:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/14 04:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/14 04:16	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/17/14 04:16	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/17/14 04:16	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/17/14 04:16	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/17/14 04:16	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/17/14 04:16	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/17/14 04:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/17/14 04:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/17/14 04:16	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/17/14 04:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/14 04:16	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/17/14 04:16	127-18-4	
Toluene	ND	ug/L	5.0	1		06/17/14 04:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/17/14 04:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/17/14 04:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/17/14 04:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/17/14 04:16	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/17/14 04:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/17/14 04:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/17/14 04:16	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/17/14 04:16	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/17/14 04:16	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/17/14 04:16	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102 %		70-130	1		06/17/14 04:16	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/17/14 04:16	17060-07-0	
Toluene-d8 (S)	101 %		70-130	1		06/17/14 04:16	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		06/20/14 18:43	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	107 %		50-150	1		06/20/14 18:43	17060-07-0	
Toluene-d8 (S)	98 %		50-150	1		06/20/14 18:43	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1		06/17/14 20:35		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND	mg/L	0.10	1		06/18/14 15:21	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG  
Pace Project No.: 92205025

Sample: MW-132	Lab ID: 92205025032	Collected: 06/11/14 16:00	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	4.6 mg/L		1.0	1		06/12/14 20:38	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/12/14 20:38	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/12/14 20:38	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/12/14 20:38		
Sulfate	ND mg/L		1.0	1		06/12/14 20:38	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 06:28	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 06:28	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 06:28	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 06:28	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/20/14 06:28	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	110 ug/L		5.0	1	06/17/14 14:34	06/18/14 00:50	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/17/14 02:42	67-64-1	
Benzene	ND ug/L		5.0	1		06/17/14 02:42	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/17/14 02:42	75-27-4	
Bromoform	ND ug/L		5.0	1		06/17/14 02:42	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/17/14 02:42	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/17/14 02:42	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/17/14 02:42	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/17/14 02:42	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/17/14 02:42	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/17/14 02:42	75-00-3	
Chloroform	ND ug/L		5.0	1		06/17/14 02:42	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/17/14 02:42	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/17/14 02:42	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/17/14 02:42	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/17/14 02:42	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/17/14 02:42	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 02:42	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 02:42	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 02:42	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/17/14 02:42	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/17/14 02:42	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/17/14 02:42	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/17/14 02:42	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/17/14 02:42	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/17/14 02:42	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/17/14 02:42	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/17/14 02:42	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/17/14 02:42	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/17/14 02:42	100-41-4	

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### ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: MW-132	Lab ID: 92205025032	Collected: 06/11/14 16:00	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND ug/L		10.0	1		06/17/14 02:42	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/17/14 02:42	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/17/14 02:42	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/17/14 02:42	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/17/14 02:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/17/14 02:42	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/17/14 02:42	1634-04-4	
Styrene	ND ug/L		5.0	1		06/17/14 02:42	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/17/14 02:42	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/17/14 02:42	127-18-4	
Toluene	ND ug/L		5.0	1		06/17/14 02:42	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/17/14 02:42	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/17/14 02:42	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/17/14 02:42	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/17/14 02:42	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/17/14 02:42	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/17/14 02:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/17/14 02:42	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/17/14 02:42	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/17/14 02:42	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/17/14 02:42	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	103 %		70-130	1		06/17/14 02:42	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/17/14 02:42	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/17/14 02:42	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	11.3 mg/L		5.0	1		06/17/14 20:51		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/18/14 15:21	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: MW-134	Lab ID: 92205025033	Collected: 06/11/14 17:00	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	1.9 mg/L		1.0	1		06/12/14 21:39	16887-00-6	
Nitrate as N	2.7 mg/L		0.10	1		06/12/14 21:39	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/12/14 21:39	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/12/14 21:39		
Sulfate	ND mg/L		1.0	1		06/12/14 21:39	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 06:56	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 06:56	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 06:56	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 06:56	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/20/14 06:56	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	40.2 ug/L		5.0	1	06/17/14 14:34	06/18/14 00:53	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		1000	40		06/17/14 06:53	67-64-1	
Benzene	ND ug/L		200	40		06/17/14 06:53	71-43-2	
Bromodichloromethane	ND ug/L		200	40		06/17/14 06:53	75-27-4	
Bromoform	ND ug/L		200	40		06/17/14 06:53	75-25-2	
Bromomethane	ND ug/L		400	40		06/17/14 06:53	74-83-9	
2-Butanone (MEK)	ND ug/L		400	40		06/17/14 06:53	78-93-3	
Carbon disulfide	ND ug/L		400	40		06/17/14 06:53	75-15-0	
Carbon tetrachloride	ND ug/L		200	40		06/17/14 06:53	56-23-5	
Chlorobenzene	ND ug/L		200	40		06/17/14 06:53	108-90-7	
Chloroethane	ND ug/L		400	40		06/17/14 06:53	75-00-3	
Chloroform	6310 ug/L		200	40		06/17/14 06:53	67-66-3	
Chloromethane	ND ug/L		200	40		06/17/14 06:53	74-87-3	
Cyclohexane	ND ug/L		200	40		06/17/14 06:53	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		80.0	40		06/17/14 06:53	96-12-8	
Dibromochloromethane	ND ug/L		200	40		06/17/14 06:53	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		200	40		06/17/14 06:53	106-93-4	
1,2-Dichlorobenzene	ND ug/L		200	40		06/17/14 06:53	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	40		06/17/14 06:53	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	40		06/17/14 06:53	106-46-7	
Dichlorodifluoromethane	ND ug/L		200	40		06/17/14 06:53	75-71-8	
1,1-Dichloroethane	ND ug/L		200	40		06/17/14 06:53	75-34-3	
1,2-Dichloroethane	ND ug/L		200	40		06/17/14 06:53	107-06-2	
1,1-Dichloroethene	ND ug/L		200	40		06/17/14 06:53	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	40		06/17/14 06:53	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	40		06/17/14 06:53	156-60-5	
1,2-Dichloropropane	ND ug/L		200	40		06/17/14 06:53	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	40		06/17/14 06:53	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	40		06/17/14 06:53	10061-02-6	
Ethylbenzene	ND ug/L		200	40		06/17/14 06:53	100-41-4	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

<b>Sample: MW-134</b>		<b>Lab ID: 92205025033</b>	Collected: 06/11/14 17:00	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND	ug/L	400	40		06/17/14 06:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	200	40		06/17/14 06:53	98-82-8	
Methyl acetate	ND	ug/L	400	40		06/17/14 06:53	79-20-9	
Methylcyclohexane	ND	ug/L	400	40		06/17/14 06:53	108-87-2	
Methylene Chloride	ND	ug/L	200	40		06/17/14 06:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	400	40		06/17/14 06:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	200	40		06/17/14 06:53	1634-04-4	
Styrene	ND	ug/L	200	40		06/17/14 06:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	40		06/17/14 06:53	79-34-5	
Tetrachloroethene	ND	ug/L	200	40		06/17/14 06:53	127-18-4	
Toluene	ND	ug/L	200	40		06/17/14 06:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	200	40		06/17/14 06:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	200	40		06/17/14 06:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	200	40		06/17/14 06:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	40		06/17/14 06:53	79-00-5	
Trichloroethene	ND	ug/L	200	40		06/17/14 06:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	400	40		06/17/14 06:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	200	40		06/17/14 06:53	76-13-1	
Vinyl acetate	ND	ug/L	400	40		06/17/14 06:53	108-05-4	
Vinyl chloride	ND	ug/L	200	40		06/17/14 06:53	75-01-4	
Xylene (Total)	ND	ug/L	400	40		06/17/14 06:53	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102 %		70-130	40		06/17/14 06:53	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130	40		06/17/14 06:53	17060-07-0	
Toluene-d8 (S)	100 %		70-130	40		06/17/14 06:53	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	7.4	mg/L	5.0	1		06/17/14 20:43		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND	mg/L	0.10	1		06/18/14 15:21	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: RW-121		Lab ID: 92205025035	Collected: 06/11/14 08:40	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	2.2 mg/L		1.0	1		06/12/14 15:32	16887-00-6	
Nitrate as N	0.17 mg/L		0.10	1		06/12/14 15:32	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/12/14 15:32	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/12/14 15:32		
Sulfate	3.6 mg/L		1.0	1		06/12/14 15:32	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	1.3 mg/L		1.0	1		06/20/14 07:24	7440-44-0	
Total Organic Carbon	1.4 mg/L		1.0	1		06/20/14 07:24	7440-44-0	
Total Organic Carbon	1.4 mg/L		1.0	1		06/20/14 07:24	7440-44-0	
Total Organic Carbon	1.1 mg/L		1.0	1		06/20/14 07:24	7440-44-0	
Mean Total Organic Carbon	1.3 mg/L		1.0	1		06/20/14 07:24	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	7.0 ug/L		5.0	1	06/17/14 14:34	06/18/14 00:56	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/17/14 04:00	67-64-1	
Benzene	ND ug/L		5.0	1		06/17/14 04:00	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/17/14 04:00	75-27-4	
Bromoform	ND ug/L		5.0	1		06/17/14 04:00	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/17/14 04:00	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/17/14 04:00	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/17/14 04:00	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/17/14 04:00	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/17/14 04:00	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/17/14 04:00	75-00-3	
Chloroform	114 ug/L		5.0	1		06/17/14 04:00	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/17/14 04:00	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/17/14 04:00	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/17/14 04:00	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/17/14 04:00	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/17/14 04:00	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 04:00	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 04:00	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 04:00	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/17/14 04:00	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/17/14 04:00	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/17/14 04:00	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/17/14 04:00	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/17/14 04:00	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/17/14 04:00	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/17/14 04:00	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/17/14 04:00	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/17/14 04:00	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/17/14 04:00	100-41-4	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: RW-121	Lab ID: 92205025035	Collected: 06/11/14 08:40	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND ug/L		10.0	1		06/17/14 04:00	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/17/14 04:00	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/17/14 04:00	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/17/14 04:00	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/17/14 04:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/17/14 04:00	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/17/14 04:00	1634-04-4	
Styrene	ND ug/L		5.0	1		06/17/14 04:00	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/17/14 04:00	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/17/14 04:00	127-18-4	
Toluene	ND ug/L		5.0	1		06/17/14 04:00	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/17/14 04:00	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/17/14 04:00	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/17/14 04:00	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/17/14 04:00	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/17/14 04:00	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/17/14 04:00	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/17/14 04:00	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/17/14 04:00	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/17/14 04:00	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/17/14 04:00	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102 %		70-130	1		06/17/14 04:00	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130	1		06/17/14 04:00	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/17/14 04:00	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	3.3 ug/L		2.0	1		06/20/14 19:05	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101 %		50-150	1		06/20/14 19:05	17060-07-0	
Toluene-d8 (S)	99 %		50-150	1		06/20/14 19:05	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	67.9 mg/L		5.0	1		06/17/14 19:34		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/18/14 15:21	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: MW-120	Lab ID: 92205025036	Collected: 06/11/14 10:10	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	2.5 mg/L		1.0	1		06/12/14 16:02	16887-00-6	
Nitrate as N	0.46 mg/L		0.10	1		06/12/14 16:02	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/12/14 16:02	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/12/14 16:02		
Sulfate	ND mg/L		1.0	1		06/12/14 16:02	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	2.1 mg/L		1.0	1		06/20/14 07:53	7440-44-0	
Total Organic Carbon	2.0 mg/L		1.0	1		06/20/14 07:53	7440-44-0	
Total Organic Carbon	2.0 mg/L		1.0	1		06/20/14 07:53	7440-44-0	
Total Organic Carbon	2.1 mg/L		1.0	1		06/20/14 07:53	7440-44-0	
Mean Total Organic Carbon	2.1 mg/L		1.0	1		06/20/14 07:53	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	37.2 ug/L		5.0	1	06/17/14 14:34	06/18/14 01:00	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/17/14 02:58	67-64-1	
Benzene	ND ug/L		5.0	1		06/17/14 02:58	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/17/14 02:58	75-27-4	
Bromoform	ND ug/L		5.0	1		06/17/14 02:58	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/17/14 02:58	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/17/14 02:58	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/17/14 02:58	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/17/14 02:58	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/17/14 02:58	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/17/14 02:58	75-00-3	
Chloroform	193 ug/L		5.0	1		06/17/14 02:58	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/17/14 02:58	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/17/14 02:58	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/17/14 02:58	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/17/14 02:58	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/17/14 02:58	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 02:58	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 02:58	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 02:58	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/17/14 02:58	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/17/14 02:58	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/17/14 02:58	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/17/14 02:58	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/17/14 02:58	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/17/14 02:58	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/17/14 02:58	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/17/14 02:58	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/17/14 02:58	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/17/14 02:58	100-41-4	

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### ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: MW-120	Lab ID: 92205025036	Collected: 06/11/14 10:10	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND ug/L		10.0	1		06/17/14 02:58	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/17/14 02:58	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/17/14 02:58	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/17/14 02:58	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/17/14 02:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/17/14 02:58	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/17/14 02:58	1634-04-4	
Styrene	ND ug/L		5.0	1		06/17/14 02:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/17/14 02:58	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/17/14 02:58	127-18-4	
Toluene	ND ug/L		5.0	1		06/17/14 02:58	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/17/14 02:58	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/17/14 02:58	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/17/14 02:58	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/17/14 02:58	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/17/14 02:58	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/17/14 02:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/17/14 02:58	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/17/14 02:58	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/17/14 02:58	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/17/14 02:58	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102 %		70-130	1		06/17/14 02:58	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/17/14 02:58	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		06/17/14 02:58	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	4.6 ug/L		2.0	1		06/20/14 19:26	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	107 %		50-150	1		06/20/14 19:26	17060-07-0	
Toluene-d8 (S)	99 %		50-150	1		06/20/14 19:26	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	11.0 mg/L		5.0	1		06/17/14 17:47		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/18/14 15:21	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: RW-108		Lab ID: 92205025037	Collected: 06/11/14 11:44	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	5.0 mg/L		1.0	1		06/12/14 16:33	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/12/14 16:33	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/12/14 16:33	14797-65-0	
Orthophosphate as P	0.11 mg/L		0.10	1		06/12/14 16:33		
Sulfate	1.1 mg/L		1.0	1		06/12/14 16:33	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 08:21	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 08:21	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 08:21	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 08:21	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/20/14 08:21	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	167 ug/L		5.0	1	06/17/14 14:34	06/18/14 01:03	7439-96-5	
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 18:25	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 18:25	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	86 %		21-110	1	06/24/14 15:36	06/26/14 18:25	4165-60-0	H5
2-Fluorobiphenyl (S)	84 %		27-110	1	06/24/14 15:36	06/26/14 18:25	321-60-8	
Terphenyl-d14 (S)	91 %		31-107	1	06/24/14 15:36	06/26/14 18:25	1718-51-0	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/17/14 04:32	67-64-1	
Benzene	ND ug/L		5.0	1		06/17/14 04:32	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/17/14 04:32	75-27-4	
Bromoform	ND ug/L		5.0	1		06/17/14 04:32	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/17/14 04:32	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/17/14 04:32	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/17/14 04:32	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/17/14 04:32	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/17/14 04:32	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/17/14 04:32	75-00-3	
Chloroform	ND ug/L		5.0	1		06/17/14 04:32	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/17/14 04:32	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/17/14 04:32	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/17/14 04:32	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/17/14 04:32	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/17/14 04:32	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 04:32	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 04:32	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 04:32	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/17/14 04:32	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/17/14 04:32	75-34-3	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG  
Pace Project No.: 92205025

Sample: RW-108		Lab ID: 92205025037	Collected: 06/11/14 11:44	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
1,2-Dichloroethane	ND	ug/L	5.0	1		06/17/14 04:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/17/14 04:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/14 04:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/14 04:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/17/14 04:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/14 04:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/14 04:32	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/17/14 04:32	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/17/14 04:32	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/17/14 04:32	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/17/14 04:32	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/17/14 04:32	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/17/14 04:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/17/14 04:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/17/14 04:32	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/17/14 04:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/14 04:32	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/17/14 04:32	127-18-4	
Toluene	ND	ug/L	5.0	1		06/17/14 04:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/17/14 04:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/17/14 04:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/17/14 04:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/17/14 04:32	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/17/14 04:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/17/14 04:32	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/17/14 04:32	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/17/14 04:32	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/17/14 04:32	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/17/14 04:32	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101 %		70-130	1		06/17/14 04:32	460-00-4	
1,2-Dichloroethane-d4 (S)	101 %		70-130	1		06/17/14 04:32	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/17/14 04:32	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		06/20/14 19:47	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	108 %		50-150	1		06/20/14 19:47	17060-07-0	
Toluene-d8 (S)	98 %		50-150	1		06/20/14 19:47	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	170	mg/L	5.0	1		06/17/14 17:58		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND	mg/L	0.10	1		06/18/14 15:21	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: MW-109	Lab ID: 92205025038	Collected: 06/11/14 13:17	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	2.8 mg/L		1.0	1		06/12/14 17:04	16887-00-6	
Nitrate as N	1.2 mg/L		0.10	1		06/12/14 17:04	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/12/14 17:04	14797-65-0	
Orthophosphate as P	0.11 mg/L		0.10	1		06/12/14 17:04		
Sulfate	ND mg/L		1.0	1		06/12/14 17:04	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 08:49	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 08:49	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 08:49	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 08:49	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/20/14 08:49	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	ND ug/L		5.0	1	06/17/14 14:34	06/18/14 01:15	7439-96-5	
<b>8270 MSSV Semivolatile Organic</b> Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/23/14 16:20	06/26/14 21:13	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/23/14 16:20	06/26/14 21:13	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	62 %		21-110	1	06/23/14 16:20	06/26/14 21:13	4165-60-0	H5
2-Fluorobiphenyl (S)	72 %		27-110	1	06/23/14 16:20	06/26/14 21:13	321-60-8	
Terphenyl-d14 (S)	76 %		31-107	1	06/23/14 16:20	06/26/14 21:13	1718-51-0	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/17/14 04:47	67-64-1	
Benzene	ND ug/L		5.0	1		06/17/14 04:47	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/17/14 04:47	75-27-4	
Bromoform	ND ug/L		5.0	1		06/17/14 04:47	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/17/14 04:47	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/17/14 04:47	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/17/14 04:47	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/17/14 04:47	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/17/14 04:47	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/17/14 04:47	75-00-3	
Chloroform	722 ug/L		25.0	5		06/17/14 19:40	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/17/14 04:47	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/17/14 04:47	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/17/14 04:47	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/17/14 04:47	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/17/14 04:47	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 04:47	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 04:47	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 04:47	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/17/14 04:47	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/17/14 04:47	75-34-3	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: MW-109	Lab ID: 92205025038	Collected: 06/11/14 13:17	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
1,2-Dichloroethane	ND ug/L		5.0	1		06/17/14 04:47	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/17/14 04:47	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/17/14 04:47	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/17/14 04:47	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/17/14 04:47	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/17/14 04:47	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/17/14 04:47	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/17/14 04:47	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/17/14 04:47	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/17/14 04:47	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/17/14 04:47	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/17/14 04:47	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/17/14 04:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/17/14 04:47	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/17/14 04:47	1634-04-4	
Styrene	ND ug/L		5.0	1		06/17/14 04:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		06/17/14 04:47	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/17/14 04:47	127-18-4	
Toluene	ND ug/L		5.0	1		06/17/14 04:47	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/17/14 04:47	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/17/14 04:47	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/17/14 04:47	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/17/14 04:47	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/17/14 04:47	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/17/14 04:47	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/17/14 04:47	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/17/14 04:47	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/17/14 04:47	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/17/14 04:47	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101 %		70-130	1		06/17/14 04:47	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130	1		06/17/14 04:47	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/17/14 04:47	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		06/20/14 20:09	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	105 %		50-150	1		06/20/14 20:09	17060-07-0	
Toluene-d8 (S)	99 %		50-150	1		06/20/14 20:09	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	20.4 mg/L		5.0	1		06/17/14 18:09		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/18/14 15:21	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: MW-118	Lab ID: 92205025039	Collected: 06/11/14 15:50	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	2.6 mg/L		1.0	1		06/12/14 20:07	16887-00-6	
Nitrate as N	0.80 mg/L		0.10	1		06/12/14 20:07	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/12/14 20:07	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/12/14 20:07		
Sulfate	ND mg/L		1.0	1		06/12/14 20:07	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 09:17	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 09:17	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 09:17	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/20/14 09:17	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/20/14 09:17	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	27.1 ug/L		5.0	1	06/17/14 14:34	06/18/14 01:18	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	4		06/17/14 06:06	67-64-1	
Benzene	ND ug/L		20.0	4		06/17/14 06:06	71-43-2	
Bromodichloromethane	ND ug/L		20.0	4		06/17/14 06:06	75-27-4	
Bromoform	ND ug/L		20.0	4		06/17/14 06:06	75-25-2	
Bromomethane	ND ug/L		40.0	4		06/17/14 06:06	74-83-9	
2-Butanone (MEK)	ND ug/L		40.0	4		06/17/14 06:06	78-93-3	
Carbon disulfide	ND ug/L		40.0	4		06/17/14 06:06	75-15-0	
Carbon tetrachloride	ND ug/L		20.0	4		06/17/14 06:06	56-23-5	
Chlorobenzene	ND ug/L		20.0	4		06/17/14 06:06	108-90-7	
Chloroethane	ND ug/L		40.0	4		06/17/14 06:06	75-00-3	
Chloroform	507 ug/L		20.0	4		06/17/14 06:06	67-66-3	
Chloromethane	ND ug/L		20.0	4		06/17/14 06:06	74-87-3	
Cyclohexane	ND ug/L		20.0	4		06/17/14 06:06	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		8.0	4		06/17/14 06:06	96-12-8	
Dibromochloromethane	ND ug/L		20.0	4		06/17/14 06:06	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		20.0	4		06/17/14 06:06	106-93-4	
1,2-Dichlorobenzene	ND ug/L		20.0	4		06/17/14 06:06	95-50-1	
1,3-Dichlorobenzene	ND ug/L		20.0	4		06/17/14 06:06	541-73-1	
1,4-Dichlorobenzene	ND ug/L		20.0	4		06/17/14 06:06	106-46-7	
Dichlorodifluoromethane	ND ug/L		20.0	4		06/17/14 06:06	75-71-8	
1,1-Dichloroethane	ND ug/L		20.0	4		06/17/14 06:06	75-34-3	
1,2-Dichloroethane	ND ug/L		20.0	4		06/17/14 06:06	107-06-2	
1,1-Dichloroethene	ND ug/L		20.0	4		06/17/14 06:06	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		20.0	4		06/17/14 06:06	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		20.0	4		06/17/14 06:06	156-60-5	
1,2-Dichloropropane	ND ug/L		20.0	4		06/17/14 06:06	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		20.0	4		06/17/14 06:06	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		20.0	4		06/17/14 06:06	10061-02-6	
Ethylbenzene	ND ug/L		20.0	4		06/17/14 06:06	100-41-4	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: MW-118	Lab ID: 92205025039	Collected: 06/11/14 15:50	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND ug/L		40.0	4		06/17/14 06:06	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		20.0	4		06/17/14 06:06	98-82-8	
Methyl acetate	ND ug/L		40.0	4		06/17/14 06:06	79-20-9	
Methylcyclohexane	ND ug/L		40.0	4		06/17/14 06:06	108-87-2	
Methylene Chloride	ND ug/L		20.0	4		06/17/14 06:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		40.0	4		06/17/14 06:06	108-10-1	
Methyl-tert-butyl ether	ND ug/L		20.0	4		06/17/14 06:06	1634-04-4	
Styrene	ND ug/L		20.0	4		06/17/14 06:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		20.0	4		06/17/14 06:06	79-34-5	
Tetrachloroethene	ND ug/L		20.0	4		06/17/14 06:06	127-18-4	
Toluene	ND ug/L		20.0	4		06/17/14 06:06	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		20.0	4		06/17/14 06:06	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		20.0	4		06/17/14 06:06	120-82-1	
1,1,1-Trichloroethane	ND ug/L		20.0	4		06/17/14 06:06	71-55-6	
1,1,2-Trichloroethane	ND ug/L		20.0	4		06/17/14 06:06	79-00-5	
Trichloroethene	ND ug/L		20.0	4		06/17/14 06:06	79-01-6	
Trichlorofluoromethane	ND ug/L		40.0	4		06/17/14 06:06	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		20.0	4		06/17/14 06:06	76-13-1	
Vinyl acetate	ND ug/L		40.0	4		06/17/14 06:06	108-05-4	
Vinyl chloride	ND ug/L		20.0	4		06/17/14 06:06	75-01-4	
Xylene (Total)	ND ug/L		40.0	4		06/17/14 06:06	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102 %		70-130	4		06/17/14 06:06	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130	4		06/17/14 06:06	17060-07-0	
Toluene-d8 (S)	100 %		70-130	4		06/17/14 06:06	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		06/20/14 20:30	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	104 %		50-150	1		06/20/14 20:30	17060-07-0	
Toluene-d8 (S)	98 %		50-150	1		06/20/14 20:30	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	10.5 mg/L		5.0	1		06/17/14 18:20		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/18/14 15:21	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: EW-49	Lab ID: 92205025040	Collected: 06/11/14 16:55	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	1.8 mg/L		1.0	1		06/12/14 21:08	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/12/14 21:08	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/12/14 21:08	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/12/14 21:08		
Sulfate	8.9 mg/L		1.0	1		06/12/14 21:08	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	1.1 mg/L		1.0	1		06/20/14 09:45	7440-44-0	
Total Organic Carbon	1.2 mg/L		1.0	1		06/20/14 09:45	7440-44-0	
Total Organic Carbon	1.2 mg/L		1.0	1		06/20/14 09:45	7440-44-0	
Total Organic Carbon	1.3 mg/L		1.0	1		06/20/14 09:45	7440-44-0	
Mean Total Organic Carbon	1.2 mg/L		1.0	1		06/20/14 09:45	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	51.2 ug/L		5.0	1	06/17/14 14:34	06/18/14 01:22	7439-96-5	
<b>8270 MSSV Semivolatile Organic</b> Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 18:53	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 18:53	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	40 %		21-110	1	06/24/14 15:36	06/26/14 18:53	4165-60-0	H5
2-Fluorobiphenyl (S)	36 %		27-110	1	06/24/14 15:36	06/26/14 18:53	321-60-8	
Terphenyl-d14 (S)	51 %		31-107	1	06/24/14 15:36	06/26/14 18:53	1718-51-0	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/17/14 05:50	67-64-1	
Benzene	ND ug/L		5.0	1		06/17/14 05:50	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/17/14 05:50	75-27-4	
Bromoform	ND ug/L		5.0	1		06/17/14 05:50	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/17/14 05:50	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/17/14 05:50	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/17/14 05:50	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/17/14 05:50	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/17/14 05:50	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/17/14 05:50	75-00-3	
Chloroform	ND ug/L		5.0	1		06/17/14 05:50	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/17/14 05:50	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/17/14 05:50	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/17/14 05:50	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/17/14 05:50	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/17/14 05:50	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 05:50	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 05:50	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 05:50	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/17/14 05:50	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/17/14 05:50	75-34-3	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: EW-49	Lab ID: 92205025040	Collected: 06/11/14 16:55	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
1,2-Dichloroethane	ND ug/L		5.0	1		06/17/14 05:50	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/17/14 05:50	75-35-4	
cis-1,2-Dichloroethene	9.6 ug/L		5.0	1		06/17/14 05:50	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/17/14 05:50	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/17/14 05:50	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/17/14 05:50	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/17/14 05:50	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/17/14 05:50	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/17/14 05:50	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/17/14 05:50	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/17/14 05:50	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/17/14 05:50	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/17/14 05:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/17/14 05:50	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/17/14 05:50	1634-04-4	
Styrene	ND ug/L		5.0	1		06/17/14 05:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		06/17/14 05:50	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/17/14 05:50	127-18-4	
Toluene	ND ug/L		5.0	1		06/17/14 05:50	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/17/14 05:50	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/17/14 05:50	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/17/14 05:50	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/17/14 05:50	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/17/14 05:50	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/17/14 05:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/17/14 05:50	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/17/14 05:50	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/17/14 05:50	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/17/14 05:50	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101 %		70-130	1		06/17/14 05:50	460-00-4	
1,2-Dichloroethane-d4 (S)	97 %		70-130	1		06/17/14 05:50	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/17/14 05:50	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	4.2 ug/L		2.0	1		06/20/14 20:51	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	109 %		50-150	1		06/20/14 20:51	17060-07-0	
Toluene-d8 (S)	98 %		50-150	1		06/20/14 20:51	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	103 mg/L		5.0	1		06/17/14 18:49		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/18/14 15:21	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-13		Lab ID: 92205025041	Collected: 06/11/14 16:30	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		06/17/14 05:03	67-64-1	
Benzene	ND	ug/L	5.0	1		06/17/14 05:03	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/17/14 05:03	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/17/14 05:03	75-25-2	
Bromomethane	ND	ug/L	10.0	1		06/17/14 05:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/17/14 05:03	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/17/14 05:03	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/17/14 05:03	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/17/14 05:03	108-90-7	
Chloroethane	ND	ug/L	10.0	1		06/17/14 05:03	75-00-3	
Chloroform	12.5	ug/L	5.0	1		06/17/14 05:03	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/17/14 05:03	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		06/17/14 05:03	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/17/14 05:03	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/17/14 05:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/17/14 05:03	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/17/14 05:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/17/14 05:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/17/14 05:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/17/14 05:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/17/14 05:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/17/14 05:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/17/14 05:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/14 05:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/14 05:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/17/14 05:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/14 05:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/14 05:03	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/17/14 05:03	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/17/14 05:03	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/17/14 05:03	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/17/14 05:03	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/17/14 05:03	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/17/14 05:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/17/14 05:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/17/14 05:03	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/17/14 05:03	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/14 05:03	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/17/14 05:03	127-18-4	
Toluene	ND	ug/L	5.0	1		06/17/14 05:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/17/14 05:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/17/14 05:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/17/14 05:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/17/14 05:03	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/17/14 05:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/17/14 05:03	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/17/14 05:03	76-13-1	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-13		Lab ID: 92205025041	Collected: 06/11/14 16:30	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	10.0	1		06/17/14 05:03	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/17/14 05:03	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/17/14 05:03	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	103	%	70-130	1		06/17/14 05:03	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		06/17/14 05:03	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		06/17/14 05:03	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		06/20/14 21:12	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	109	%	50-150	1		06/20/14 21:12	17060-07-0	
Toluene-d8 (S)	98	%	50-150	1		06/20/14 21:12	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-14	Lab ID: 92205025042	Collected: 06/11/14 16:50	Received: 06/12/14 07:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/17/14 05:19	67-64-1	
Benzene	ND ug/L		5.0	1		06/17/14 05:19	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/17/14 05:19	75-27-4	
Bromoform	ND ug/L		5.0	1		06/17/14 05:19	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/17/14 05:19	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/17/14 05:19	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/17/14 05:19	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/17/14 05:19	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/17/14 05:19	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/17/14 05:19	75-00-3	
Chloroform	6.4 ug/L		5.0	1		06/17/14 05:19	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/17/14 05:19	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/17/14 05:19	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/17/14 05:19	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/17/14 05:19	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/17/14 05:19	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 05:19	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 05:19	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 05:19	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/17/14 05:19	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/17/14 05:19	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/17/14 05:19	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/17/14 05:19	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/17/14 05:19	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/17/14 05:19	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/17/14 05:19	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/17/14 05:19	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/17/14 05:19	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/17/14 05:19	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/17/14 05:19	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/17/14 05:19	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/17/14 05:19	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/17/14 05:19	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/17/14 05:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/17/14 05:19	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/17/14 05:19	1634-04-4	
Styrene	ND ug/L		5.0	1		06/17/14 05:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/17/14 05:19	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/17/14 05:19	127-18-4	
Toluene	ND ug/L		5.0	1		06/17/14 05:19	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/17/14 05:19	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/17/14 05:19	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/17/14 05:19	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/17/14 05:19	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/17/14 05:19	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/17/14 05:19	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/17/14 05:19	76-13-1	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Sample: SW-14		Lab ID: 92205025042	Collected: 06/11/14 16:50	Received: 06/12/14 07:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Vinyl acetate	ND ug/L		10.0	1		06/17/14 05:19	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/17/14 05:19	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/17/14 05:19	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	103 %		70-130	1		06/17/14 05:19	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		06/17/14 05:19	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/17/14 05:19	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		06/20/14 21:34	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	109 %		50-150	1		06/20/14 21:34	17060-07-0	
Toluene-d8 (S)	98 %		50-150	1		06/20/14 21:34	2037-26-5	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG  
Pace Project No.: 92205025

QC Batch: GWD/1339 Analysis Method: EPA 9056A  
QC Batch Method: EPA 9056A Analysis Description: 9056 IC Anions, GWD  
Associated Lab Samples: 92205025018, 92205025030, 92205025031, 92205025032, 92205025033, 92205025035, 92205025036, 92205025037, 92205025038, 92205025039, 92205025040

METHOD BLANK: 1219680 Matrix: Water  
Associated Lab Samples: 92205025018, 92205025030, 92205025031, 92205025032, 92205025033, 92205025035, 92205025036, 92205025037, 92205025038, 92205025039, 92205025040

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	06/12/14 12:59	
Nitrate as N	mg/L	ND	0.10	06/12/14 12:59	
Nitrite as N	mg/L	ND	0.10	06/12/14 12:59	
Orthophosphate as P	mg/L	ND	0.10	06/12/14 12:59	
Sulfate	mg/L	ND	1.0	06/12/14 12:59	

LABORATORY CONTROL SAMPLE: 1219681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.8	102	90-110	
Nitrate as N	mg/L	2.5	2.5	100	90-110	
Nitrite as N	mg/L	2.5	2.5	101	90-110	
Orthophosphate as P	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	49.3	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1219682 1219683

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92205025018 Result	Spike Conc.	Spike Conc.	MS Result					
Chloride	mg/L	4.1	50	50	56.9	60.3	106	112	90-110	6 M1
Nitrate as N	mg/L	0.76	2.5	2.5	3.5	3.6	108	115	90-110	5 M1
Nitrite as N	mg/L	ND	2.5	2.5	2.6	2.8	103	109	90-110	6
Orthophosphate as P	mg/L	ND	2.5	2.5	2.2	2.4	90	96	90-110	7
Sulfate	mg/L	1.8	50	50	54.2	57.6	105	112	90-110	6 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1219684 1219685

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92205035003 Result	Spike Conc.	Spike Conc.	MS Result					
Chloride	mg/L	ND	50	50	51.2	51.5	101	101	90-110	1
Nitrate as N	mg/L	0.39	2.5	2.5	2.9	2.9	101	102	90-110	1
Nitrite as N	mg/L	ND	2.5	2.5	2.4	2.5	95	100	90-110	5
Orthophosphate as P	mg/L	ND	2.5	2.5	2.1	2.2	83	88	90-110	5 M1
Sulfate	mg/L	2.0	50	50	52.0	52.3	100	101	90-110	1

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG  
Pace Project No.: 92205025

QC Batch: GWD/1359 Analysis Method: EPA 9060A  
QC Batch Method: EPA 9060A Analysis Description: 9060 TOC, GWD  
Associated Lab Samples: 92205025018

METHOD BLANK: 1224688 Matrix: Water  
Associated Lab Samples: 92205025018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	ND	1.0	06/19/14 20:36	
Total Organic Carbon	mg/L	ND	1.0	06/19/14 20:36	
Total Organic Carbon	mg/L	ND	1.0	06/19/14 20:36	
Total Organic Carbon	mg/L	ND	1.0	06/19/14 20:36	
Total Organic Carbon	mg/L	ND	1.0	06/19/14 20:36	

LABORATORY CONTROL SAMPLE: 1224689

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	50	47.9	96	75-125	
Total Organic Carbon	mg/L	50	46.5	93	75-125	
Total Organic Carbon	mg/L	50	49.4	99	75-125	
Total Organic Carbon	mg/L	50	47.6	95	75-125	
Total Organic Carbon	mg/L	50	48.2	96	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1224690 1224691

Parameter	Units	92204810009		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Mean Total Organic Carbon	mg/L	ND	50	50	49.5	50.4	98	100	75-125	2		
Total Organic Carbon	mg/L	ND	50	50	50.7	50.4	101	100	75-125	1		
Total Organic Carbon	mg/L	ND	50	50	46.6	50.6	93	101	75-125	8		
Total Organic Carbon	mg/L	ND	50	50	50.4	50.3	100	100	75-125	0		
Total Organic Carbon	mg/L	ND	50	50	50.2	50.4	100	100	75-125	0		

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

QC Batch:	GWD/1360	Analysis Method:	EPA 9060A
QC Batch Method:	EPA 9060A	Analysis Description:	9060 TOC, GWD
Associated Lab Samples:	92205025030, 92205025031, 92205025032, 92205025033, 92205025035, 92205025036, 92205025037, 92205025038, 92205025039, 92205025040		

METHOD BLANK:	1225053	Matrix:	Water
Associated Lab Samples:	92205025030, 92205025031, 92205025032, 92205025033, 92205025035, 92205025036, 92205025037, 92205025038, 92205025039, 92205025040		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	ND	1.0	06/20/14 03:58	
Total Organic Carbon	mg/L	ND	1.0	06/20/14 03:58	
Total Organic Carbon	mg/L	ND	1.0	06/20/14 03:58	
Total Organic Carbon	mg/L	ND	1.0	06/20/14 03:58	
Total Organic Carbon	mg/L	ND	1.0	06/20/14 03:58	

LABORATORY CONTROL SAMPLE: 1225054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	50	48.8	98	75-125	
Total Organic Carbon	mg/L	50	48.0	96	75-125	
Total Organic Carbon	mg/L	50	49.2	98	75-125	
Total Organic Carbon	mg/L	50	49.6	99	75-125	
Total Organic Carbon	mg/L	50	48.3	97	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1225055 1225056

Parameter	Units	1225055		1225056		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92205025030 Result	MS Spike Conc.	MSD Spike Conc.	MS Result					
Mean Total Organic Carbon	mg/L	ND	50	50	48.2	48.4	96	97	75-125	0
Total Organic Carbon	mg/L	ND	50	50	48.5	48.9	97	98	75-125	1
Total Organic Carbon	mg/L	ND	50	50	46.6	49.2	93	98	75-125	5
Total Organic Carbon	mg/L	ND	50	50	49.7	47.8	99	96	75-125	4
Total Organic Carbon	mg/L	ND	50	50	48.0	47.5	96	95	75-125	1

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG  
Pace Project No.: 92205025

QC Batch: MPRP/16226 Analysis Method: EPA 6010  
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Filtered  
Associated Lab Samples: 92205025018, 92205025030, 92205025031, 92205025032, 92205025033, 92205025035, 92205025036, 92205025037, 92205025038, 92205025039, 92205025040

METHOD BLANK: 1222392 Matrix: Water  
Associated Lab Samples: 92205025018, 92205025030, 92205025031, 92205025032, 92205025033, 92205025035, 92205025036, 92205025037, 92205025038, 92205025039, 92205025040

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	5.0	06/18/14 00:16	

LABORATORY CONTROL SAMPLE: 1222393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	500	454	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222394 1222395

Parameter	Units	92204837002		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Manganese, Dissolved	ug/L	1200	500	500	500	1600	1590	80	78	75-125	1			

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

QC Batch: MSV/27230 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92205025001, 92205025018, 92205025019, 92205025020, 92205025021, 92205025022, 92205025023,  
 92205025024, 92205025025, 92205025026, 92205025027, 92205025028, 92205025029, 92205025030

METHOD BLANK: 1222199 Matrix: Water  
 Associated Lab Samples: 92205025001, 92205025018, 92205025019, 92205025020, 92205025021, 92205025022, 92205025023,  
 92205025024, 92205025025, 92205025026, 92205025027, 92205025028, 92205025029, 92205025030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/16/14 13:40	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/16/14 13:40	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/16/14 13:40	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	06/16/14 13:40	
1,1-Dichloroethane	ug/L	ND	5.0	06/16/14 13:40	
1,1-Dichloroethene	ug/L	ND	5.0	06/16/14 13:40	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/16/14 13:40	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/16/14 13:40	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	06/16/14 13:40	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/16/14 13:40	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/16/14 13:40	
1,2-Dichloroethane	ug/L	ND	5.0	06/16/14 13:40	
1,2-Dichloropropane	ug/L	ND	5.0	06/16/14 13:40	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/16/14 13:40	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/16/14 13:40	
2-Butanone (MEK)	ug/L	ND	10.0	06/16/14 13:40	
2-Hexanone	ug/L	ND	10.0	06/16/14 13:40	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/16/14 13:40	
Acetone	ug/L	ND	25.0	06/16/14 13:40	
Benzene	ug/L	ND	5.0	06/16/14 13:40	
Bromodichloromethane	ug/L	ND	5.0	06/16/14 13:40	
Bromoform	ug/L	ND	5.0	06/16/14 13:40	
Bromomethane	ug/L	ND	10.0	06/16/14 13:40	
Carbon disulfide	ug/L	ND	10.0	06/16/14 13:40	
Carbon tetrachloride	ug/L	ND	5.0	06/16/14 13:40	
Chlorobenzene	ug/L	ND	5.0	06/16/14 13:40	
Chloroethane	ug/L	ND	10.0	06/16/14 13:40	
Chloroform	ug/L	ND	5.0	06/16/14 13:40	
Chloromethane	ug/L	ND	5.0	06/16/14 13:40	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/16/14 13:40	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/16/14 13:40	
Cyclohexane	ug/L	ND	5.0	06/16/14 13:40	
Dibromochloromethane	ug/L	ND	5.0	06/16/14 13:40	
Dichlorodifluoromethane	ug/L	ND	5.0	06/16/14 13:40	
Ethylbenzene	ug/L	ND	5.0	06/16/14 13:40	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/16/14 13:40	
Methyl acetate	ug/L	ND	10.0	06/16/14 13:40	
Methyl-tert-butyl ether	ug/L	ND	5.0	06/16/14 13:40	
Methylcyclohexane	ug/L	ND	10.0	06/16/14 13:40	
Methylene Chloride	ug/L	ND	5.0	06/16/14 13:40	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

METHOD BLANK: 1222199

Matrix: Water

Associated Lab Samples: 92205025001, 92205025018, 92205025019, 92205025020, 92205025021, 92205025022, 92205025023, 92205025024, 92205025025, 92205025026, 92205025027, 92205025028, 92205025029, 92205025030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Styrene	ug/L	ND	5.0	06/16/14 13:40	
Tetrachloroethene	ug/L	ND	5.0	06/16/14 13:40	
Toluene	ug/L	ND	5.0	06/16/14 13:40	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/16/14 13:40	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/16/14 13:40	
Trichloroethene	ug/L	ND	5.0	06/16/14 13:40	
Trichlorofluoromethane	ug/L	ND	10.0	06/16/14 13:40	
Vinyl acetate	ug/L	ND	10.0	06/16/14 13:40	
Vinyl chloride	ug/L	ND	5.0	06/16/14 13:40	
Xylene (Total)	ug/L	ND	10.0	06/16/14 13:40	
1,2-Dichloroethane-d4 (S)	%	100	70-130	06/16/14 13:40	
4-Bromofluorobenzene (S)	%	101	70-130	06/16/14 13:40	
Toluene-d8 (S)	%	100	70-130	06/16/14 13:40	

LABORATORY CONTROL SAMPLE: 1222200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.0	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.7	97	70-130	
1,1,2-Trichloroethane	ug/L	50	49.8	100	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	51.4	103	70-130	
1,1-Dichloroethane	ug/L	50	46.3	93	70-130	
1,1-Dichloroethene	ug/L	50	54.3	109	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.4	101	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.8	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	50.3	101	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.4	97	70-130	
1,2-Dichlorobenzene	ug/L	50	49.1	98	70-130	
1,2-Dichloroethane	ug/L	50	48.7	97	70-130	
1,2-Dichloropropane	ug/L	50	47.9	96	70-130	
1,3-Dichlorobenzene	ug/L	50	47.8	96	70-130	
1,4-Dichlorobenzene	ug/L	50	47.9	96	70-130	
2-Butanone (MEK)	ug/L	100	103	103	70-130	
2-Hexanone	ug/L	100	88.8	89	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.5	96	70-130	
Acetone	ug/L	100	95.2	95	70-130	
Benzene	ug/L	50	49.5	99	70-130	
Bromodichloromethane	ug/L	50	49.3	99	70-130	
Bromoform	ug/L	50	51.4	103	70-130	
Bromomethane	ug/L	50	50.4	101	70-130	
Carbon disulfide	ug/L	50	49.0	98	70-130	
Carbon tetrachloride	ug/L	50	54.9	110	70-130	
Chlorobenzene	ug/L	50	46.8	94	70-130	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

LABORATORY CONTROL SAMPLE: 1222200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	50	51.6	103	70-130	
Chloroform	ug/L	50	50.1	100	70-130	
Chloromethane	ug/L	50	53.8	108	70-130	
cis-1,2-Dichloroethene	ug/L	50	49.4	99	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.2	96	70-130	
Cyclohexane	ug/L	50	58.4	117	70-130	
Dibromochloromethane	ug/L	50	48.3	97	70-130	
Dichlorodifluoromethane	ug/L	50	67.0	134	70-130 L0	
Ethylbenzene	ug/L	50	46.6	93	70-130	
Isopropylbenzene (Cumene)	ug/L	50	49.4	99	70-130	
Methyl acetate	ug/L	50	48.2	96	70-130	
Methyl-tert-butyl ether	ug/L	50	51.9	104	70-130	
Methylcyclohexane	ug/L	50	58.1	116	70-130	
Methylene Chloride	ug/L	50	50.2	100	70-130	
Styrene	ug/L	50	48.7	97	70-130	
Tetrachloroethene	ug/L	50	50.4	101	70-130	
Toluene	ug/L	50	48.1	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.5	101	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.8	96	70-130	
Trichloroethene	ug/L	50	49.3	99	70-130	
Trichlorofluoromethane	ug/L	50	59.4	119	70-130	
Vinyl acetate	ug/L	100	101	101	70-130	
Vinyl chloride	ug/L	50	62.4	125	70-130	
Xylene (Total)	ug/L	150	142	94	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222790 1222791

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92205025019 Result	Spike Conc.	Spike Conc.	MS Result					
1,1,1-Trichloroethane	ug/L	ND	50	50	61.5	65.9	123	132	70-130	7 M0
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	50.8	55.3	102	111	70-130	9
1,1,2-Trichloroethane	ug/L	ND	50	50	52.3	55.6	105	111	70-130	6
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	68.9	72.1	138	144	70-130	5 M0
1,1-Dichloroethane	ug/L	ND	50	50	48.4	52.6	97	105	70-130	8
1,1-Dichloroethene	ug/L	ND	50	50	71.6	70.6	143	141	70-130	1 M0
1,2,3-Trichlorobenzene	ug/L	ND	50	50	53.1	56.6	106	113	70-130	6
1,2,4-Trichlorobenzene	ug/L	ND	50	50	52.5	56.1	105	112	70-130	7
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	52.1	54.4	104	109	70-130	4
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	56.0	60.7	112	121	70-130	8
1,2-Dichlorobenzene	ug/L	ND	50	50	52.9	56.1	106	112	70-130	6
1,2-Dichloroethane	ug/L	ND	50	50	60.9	66.1	122	132	70-130	8 M0
1,2-Dichloropropane	ug/L	ND	50	50	48.4	52.8	97	106	70-130	9

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Parameter	Units	1222790		1222791		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92205025019 Result	MS Spike Conc.	MSD Spike Conc.	MSD Result							
1,3-Dichlorobenzene	ug/L	ND	50	50	51.2	54.3	102	109	70-130	6		
1,4-Dichlorobenzene	ug/L	ND	50	50	52.2	55.0	104	110	70-130	5		
2-Butanone (MEK)	ug/L	ND	100	100	93.6	98.3	94	98	70-130	5		
2-Hexanone	ug/L	ND	100	100	109	115	109	115	70-130	5		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	110	119	110	119	70-130	8		
Acetone	ug/L	ND	100	100	91.0	104	88	101	70-130	13		
Benzene	ug/L	ND	50	50	53.3	57.3	107	115	70-130	7		
Bromodichloromethane	ug/L	ND	50	50	56.4	60.3	113	121	70-130	7		
Bromoform	ug/L	ND	50	50	55.9	58.8	112	118	70-130	5		
Bromomethane	ug/L	ND	50	50	54.3	59.4	109	119	70-130	9		
Carbon disulfide	ug/L	ND	50	50	61.9	64.7	124	129	70-130	5		
Carbon tetrachloride	ug/L	ND	50	50	77.5	81.9	155	164	70-130	6	M0	
Chlorobenzene	ug/L	ND	50	50	52.8	56.8	106	114	70-130	7		
Chloroethane	ug/L	ND	50	50	68.7	71.4	137	143	70-130	4	M0	
Chloroform	ug/L	ND	50	50	56.2	61.0	112	122	70-130	8		
Chloromethane	ug/L	ND	50	50	46.9	51.6	94	103	70-130	10		
cis-1,2-Dichloroethene	ug/L	ND	50	50	51.7	56.9	103	114	70-130	9		
cis-1,3-Dichloropropene	ug/L	ND	50	50	56.2	61.5	112	123	70-130	9		
Cyclohexane	ug/L	ND	50	50	54.4	59.6	109	119	70-130	9		
Dibromochloromethane	ug/L	ND	50	50	53.7	58.1	107	116	70-130	8		
Dichlorodifluoromethane	ug/L	ND	50	50	69.9	74.1	140	148	70-130	6	M0	
Ethylbenzene	ug/L	ND	50	50	54.5	58.0	109	116	70-130	6		
Isopropylbenzene (Cumene)	ug/L	ND	50	50	57.9	61.6	116	123	70-130	6		
Methyl acetate	ug/L	ND	50	50	34.8	43.6	70	87	70-130	22		
Methyl-tert-butyl ether	ug/L	ND	50	50	55.8	61.1	112	122	70-130	9		
Methylcyclohexane	ug/L	ND	50	50	54.5	59.9	109	120	70-130	9		
Methylene Chloride	ug/L	ND	50	50	44.5	47.9	89	96	70-130	7		
Styrene	ug/L	ND	50	50	55.4	59.4	111	119	70-130	7		
Tetrachloroethene	ug/L	ND	50	50	59.5	62.3	119	125	70-130	5		
Toluene	ug/L	ND	50	50	51.3	55.6	103	111	70-130	8		
trans-1,2-Dichloroethene	ug/L	ND	50	50	53.4	58.3	107	117	70-130	9		
trans-1,3-Dichloropropene	ug/L	ND	50	50	53.7	58.1	107	116	70-130	8		
Trichloroethene	ug/L	ND	50	50	55.3	59.4	111	119	70-130	7		
Trichlorofluoromethane	ug/L	ND	50	50	70.1	72.2	140	144	70-130	3	M0	
Vinyl acetate	ug/L	ND	100	100	104	111	104	111	70-130	6		
Vinyl chloride	ug/L	ND	50	50	58.0	64.3	116	129	70-130	10		
1,2-Dichloroethane-d4 (S)	%						90	91	70-130			
4-Bromofluorobenzene (S)	%						107	105	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222792 1222793												
Parameter	Units	MS		MSD		MS		MSD		% Rec	RPD	Qual
		92205025021	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,1,1-Trichloroethane	ug/L	ND	50	50	66.0	68.0	132	136	70-130	3	M0	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	52.5	57.2	105	114	70-130	9		
1,1,2-Trichloroethane	ug/L	ND	50	50	56.0	59.5	112	119	70-130	6		
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	68.9	72.0	138	144	70-130	4	M0	
1,1-Dichloroethane	ug/L	ND	50	50	53.6	48.0	107	96	70-130	11		
1,1-Dichloroethene	ug/L	ND	50	50	72.4	76.8	145	154	70-130	6	M0	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	57.8	58.6	116	117	70-130	1		
1,2,4-Trichlorobenzene	ug/L	ND	50	50	57.1	57.4	114	115	70-130	0		
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	53.5	58.1	107	116	70-130	8		
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	60.4	65.0	121	130	70-130	7		
1,2-Dichlorobenzene	ug/L	ND	50	50	57.2	58.7	114	117	70-130	3		
1,2-Dichloroethane	ug/L	ND	50	50	65.0	67.9	130	136	70-130	4	M0	
1,2-Dichloropropane	ug/L	ND	50	50	53.9	56.6	108	113	70-130	5		
1,3-Dichlorobenzene	ug/L	ND	50	50	56.2	57.2	112	114	70-130	2		
1,4-Dichlorobenzene	ug/L	ND	50	50	56.8	58.1	114	116	70-130	2		
2-Butanone (MEK)	ug/L	ND	100	100	95.7	110	96	110	70-130	14		
2-Hexanone	ug/L	ND	100	100	109	126	109	126	70-130	14		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	112	124	112	124	70-130	10		
Acetone	ug/L	ND	100	100	96.8	104	92	100	70-130	7		
Benzene	ug/L	ND	50	50	58.3	61.4	117	123	70-130	5		
Bromodichloromethane	ug/L	ND	50	50	61.0	63.5	122	127	70-130	4		
Bromoform	ug/L	ND	50	50	57.8	62.7	116	125	70-130	8		
Bromomethane	ug/L	ND	50	50	59.8	63.8	120	128	70-130	7		
Carbon disulfide	ug/L	ND	50	50	66.6	65.4	133	131	70-130	2	M0	
Carbon tetrachloride	ug/L	ND	50	50	83.0	84.1	166	168	70-130	1	M0	
Chlorobenzene	ug/L	ND	50	50	56.5	60.3	113	121	70-130	7		
Chloroethane	ug/L	ND	50	50	71.7	72.9	143	146	70-130	2	M0	
Chloroform	ug/L	ND	50	50	62.4	66.6	125	133	70-130	7	M0	
Chloromethane	ug/L	ND	50	50	52.7	57.5	105	115	70-130	9		
cis-1,2-Dichloroethene	ug/L	ND	50	50	56.7	58.9	113	118	70-130	4		
cis-1,3-Dichloropropene	ug/L	ND	50	50	62.1	65.8	124	132	70-130	6	M0	
Cyclohexane	ug/L	ND	50	50	60.1	64.7	120	129	70-130	7		
Dibromochloromethane	ug/L	ND	50	50	56.3	60.6	113	121	70-130	7		
Dichlorodifluoromethane	ug/L	ND	50	50	75.8	77.0	152	154	70-130	2	M0	
Ethylbenzene	ug/L	ND	50	50	57.8	61.8	116	124	70-130	7		
Isopropylbenzene (Cumene)	ug/L	ND	50	50	61.2	65.3	122	131	70-130	6	M0	
Methyl acetate	ug/L	ND	50	50	39.8	37.3	80	75	70-130	7		
Methyl-tert-butyl ether	ug/L	ND	50	50	61.5	55.9	123	112	70-130	10		
Methylcyclohexane	ug/L	ND	50	50	60.3	62.6	121	125	70-130	4		
Methylene Chloride	ug/L	ND	50	50	48.8	49.9	98	100	70-130	2		
Styrene	ug/L	ND	50	50	60.0	63.5	120	127	70-130	6		
Tetrachloroethene	ug/L	ND	50	50	61.8	66.8	124	134	70-130	8	M0	
Toluene	ug/L	ND	50	50	56.1	58.9	112	118	70-130	5		
trans-1,2-Dichloroethene	ug/L	ND	50	50	55.0	48.7	110	97	70-130	12		
trans-1,3-Dichloropropene	ug/L	ND	50	50	57.8	60.9	116	122	70-130	5		
Trichloroethene	ug/L	ND	50	50	60.3	62.4	121	125	70-130	3		

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Parameter	Units	1222792		1222793		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92205025021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Trichlorofluoromethane	ug/L	ND	50	50	74.2	73.7	148	147	70-130	1	M0	
Vinyl acetate	ug/L	ND	100	100	112	102	112	102	70-130	9		
Vinyl chloride	ug/L	ND	50	50	65.4	66.6	131	133	70-130	2	M0	
1,2-Dichloroethane-d4 (S)	%						92	93	70-130			
4-Bromofluorobenzene (S)	%						101	107	70-130			
Toluene-d8 (S)	%						99	100	70-130			

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

QC Batch: MSV/27233 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92205025031, 92205025032, 92205025033, 92205025035, 92205025036, 92205025037, 92205025038,  
 92205025039, 92205025040, 92205025041, 92205025042

METHOD BLANK: 1222238 Matrix: Water  
 Associated Lab Samples: 92205025031, 92205025032, 92205025033, 92205025035, 92205025036, 92205025037, 92205025038,  
 92205025039, 92205025040, 92205025041, 92205025042

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/17/14 01:24	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/17/14 01:24	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/17/14 01:24	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	06/17/14 01:24	
1,1-Dichloroethane	ug/L	ND	5.0	06/17/14 01:24	
1,1-Dichloroethene	ug/L	ND	5.0	06/17/14 01:24	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/17/14 01:24	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/17/14 01:24	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	06/17/14 01:24	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/17/14 01:24	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/17/14 01:24	
1,2-Dichloroethane	ug/L	ND	5.0	06/17/14 01:24	
1,2-Dichloropropane	ug/L	ND	5.0	06/17/14 01:24	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/17/14 01:24	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/17/14 01:24	
2-Butanone (MEK)	ug/L	ND	10.0	06/17/14 01:24	
2-Hexanone	ug/L	ND	10.0	06/17/14 01:24	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/17/14 01:24	
Acetone	ug/L	ND	25.0	06/17/14 01:24	
Benzene	ug/L	ND	5.0	06/17/14 01:24	
Bromodichloromethane	ug/L	ND	5.0	06/17/14 01:24	
Bromoform	ug/L	ND	5.0	06/17/14 01:24	
Bromomethane	ug/L	ND	10.0	06/17/14 01:24	
Carbon disulfide	ug/L	ND	10.0	06/17/14 01:24	
Carbon tetrachloride	ug/L	ND	5.0	06/17/14 01:24	
Chlorobenzene	ug/L	ND	5.0	06/17/14 01:24	
Chloroethane	ug/L	ND	10.0	06/17/14 01:24	
Chloroform	ug/L	ND	5.0	06/17/14 01:24	
Chloromethane	ug/L	ND	5.0	06/17/14 01:24	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/17/14 01:24	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/17/14 01:24	
Cyclohexane	ug/L	ND	5.0	06/17/14 01:24	
Dibromochloromethane	ug/L	ND	5.0	06/17/14 01:24	
Dichlorodifluoromethane	ug/L	ND	5.0	06/17/14 01:24	
Ethylbenzene	ug/L	ND	5.0	06/17/14 01:24	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/17/14 01:24	
Methyl acetate	ug/L	ND	10.0	06/17/14 01:24	
Methyl-tert-butyl ether	ug/L	ND	5.0	06/17/14 01:24	
Methylcyclohexane	ug/L	ND	10.0	06/17/14 01:24	
Methylene Chloride	ug/L	ND	5.0	06/17/14 01:24	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

METHOD BLANK: 1222238

Matrix: Water

Associated Lab Samples: 92205025031, 92205025032, 92205025033, 92205025035, 92205025036, 92205025037, 92205025038, 92205025039, 92205025040, 92205025041, 92205025042

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Styrene	ug/L	ND	5.0	06/17/14 01:24	
Tetrachloroethene	ug/L	ND	5.0	06/17/14 01:24	
Toluene	ug/L	ND	5.0	06/17/14 01:24	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/17/14 01:24	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/17/14 01:24	
Trichloroethene	ug/L	ND	5.0	06/17/14 01:24	
Trichlorofluoromethane	ug/L	ND	10.0	06/17/14 01:24	
Vinyl acetate	ug/L	ND	10.0	06/17/14 01:24	
Vinyl chloride	ug/L	ND	5.0	06/17/14 01:24	
Xylene (Total)	ug/L	ND	10.0	06/17/14 01:24	
1,2-Dichloroethane-d4 (S)	%	98	70-130	06/17/14 01:24	
4-Bromofluorobenzene (S)	%	101	70-130	06/17/14 01:24	
Toluene-d8 (S)	%	99	70-130	06/17/14 01:24	

LABORATORY CONTROL SAMPLE: 1222239

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.4	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.2	96	70-130	
1,1,2-Trichloroethane	ug/L	50	50.2	100	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	51.3	103	70-130	
1,1-Dichloroethane	ug/L	50	48.1	96	70-130	
1,1-Dichloroethene	ug/L	50	54.3	109	70-130	
1,2,3-Trichlorobenzene	ug/L	50	47.0	94	70-130	
1,2,4-Trichlorobenzene	ug/L	50	45.8	92	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	46.8	94	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.6	97	70-130	
1,2-Dichlorobenzene	ug/L	50	46.4	93	70-130	
1,2-Dichloroethane	ug/L	50	48.9	98	70-130	
1,2-Dichloropropane	ug/L	50	48.5	97	70-130	
1,3-Dichlorobenzene	ug/L	50	45.9	92	70-130	
1,4-Dichlorobenzene	ug/L	50	46.3	93	70-130	
2-Butanone (MEK)	ug/L	100	101	101	70-130	
2-Hexanone	ug/L	100	86.4	86	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	93.5	93	70-130	
Acetone	ug/L	100	96.6	97	70-130	
Benzene	ug/L	50	50.4	101	70-130	
Bromodichloromethane	ug/L	50	49.7	99	70-130	
Bromoform	ug/L	50	50.5	101	70-130	
Bromomethane	ug/L	50	57.5	115	70-130	
Carbon disulfide	ug/L	50	49.5	99	70-130	
Carbon tetrachloride	ug/L	50	54.7	109	70-130	
Chlorobenzene	ug/L	50	46.8	94	70-130	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

LABORATORY CONTROL SAMPLE: 1222239

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	50	53.3	107	70-130	
Chloroform	ug/L	50	51.2	102	70-130	
Chloromethane	ug/L	50	52.3	105	70-130	
cis-1,2-Dichloroethene	ug/L	50	50.7	101	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.0	96	70-130	
Cyclohexane	ug/L	50	57.7	115	70-130	
Dibromochloromethane	ug/L	50	46.8	94	70-130	
Dichlorodifluoromethane	ug/L	50	64.9	130	70-130	
Ethylbenzene	ug/L	50	46.6	93	70-130	
Isopropylbenzene (Cumene)	ug/L	50	49.1	98	70-130	
Methyl acetate	ug/L	50	47.8	96	70-130	
Methyl-tert-butyl ether	ug/L	50	52.6	105	70-130	
Methylcyclohexane	ug/L	50	54.3	109	70-130	
Methylene Chloride	ug/L	50	50.6	101	70-130	
Styrene	ug/L	50	48.6	97	70-130	
Tetrachloroethene	ug/L	50	49.2	98	70-130	
Toluene	ug/L	50	49.1	98	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.3	103	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.1	94	70-130	
Trichloroethene	ug/L	50	50.5	101	70-130	
Trichlorofluoromethane	ug/L	50	58.8	118	70-130	
Vinyl acetate	ug/L	100	98.5	98	70-130	
Vinyl chloride	ug/L	50	62.7	125	70-130	
Xylene (Total)	ug/L	150	142	95	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			101	70-130	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

QC Batch:	MSV/27225	Analysis Method:	EPA 8260B Mod.
QC Batch Method:	EPA 8260B Mod.	Analysis Description:	8260 MSV SIM
Associated Lab Samples:	92205025019		

METHOD BLANK: 1222072 Matrix: Water

Associated Lab Samples: 92205025019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/16/14 13:10	
1,2-Dichloroethane-d4 (S)	%	96	50-150	06/16/14 13:10	
Toluene-d8 (S)	%	69	50-150	06/16/14 13:10	

LABORATORY CONTROL SAMPLE: 1222073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	18.3	92	71-125	
1,2-Dichloroethane-d4 (S)	%			117	50-150	
Toluene-d8 (S)	%			70	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222074 1222075

Parameter	Units	92205025019		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	20.2	23.6	96	113	50-150	16				
1,2-Dichloroethane-d4 (S)	%						111	106	50-150					
Toluene-d8 (S)	%						90	90	50-150					

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG  
Pace Project No.: 92205025

QC Batch: MSV/27226 Analysis Method: EPA 8260B Mod.  
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM  
Associated Lab Samples: 92205025021, 92205025022, 92205025023, 92205025024, 92205025025, 92205025026, 92205025027

METHOD BLANK: 1222076 Matrix: Water  
Associated Lab Samples: 92205025021, 92205025022, 92205025023, 92205025024, 92205025025, 92205025026, 92205025027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/16/14 12:48	
1,2-Dichloroethane-d4 (S)	%	79	50-150	06/16/14 12:48	
Toluene-d8 (S)	%	69	50-150	06/16/14 12:48	

LABORATORY CONTROL SAMPLE: 1222077

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	17.9	90	71-125	
1,2-Dichloroethane-d4 (S)	%			126	50-150	
Toluene-d8 (S)	%			69	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222078 1222079

Parameter	Units	92205025021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	2.4	20	20	22.9	24.4	103	110	50-150	6	
1,2-Dichloroethane-d4 (S)	%						120	105	50-150		
Toluene-d8 (S)	%						89	89	50-150		

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

QC Batch: MSV/27240 Analysis Method: EPA 8260B Mod.

QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM

Associated Lab Samples: 92205025020, 92205025028, 92205025029

METHOD BLANK: 1222630 Matrix: Water

Associated Lab Samples: 92205025020, 92205025028, 92205025029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/17/14 16:25	
1,2-Dichloroethane-d4 (S)	%	94	50-150	06/17/14 16:25	
Toluene-d8 (S)	%	91	50-150	06/17/14 16:25	

LABORATORY CONTROL SAMPLE: 1222631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	22.4	112	71-125	
1,2-Dichloroethane-d4 (S)	%			94	50-150	
Toluene-d8 (S)	%			95	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1223589 1223590

Parameter	Units	92205298016		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	19.0	20.1	95	100	50-150	5				
1,2-Dichloroethane-d4 (S)	%						120	126	50-150					
Toluene-d8 (S)	%						78	77	50-150					

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

QC Batch: MSV/27264 Analysis Method: EPA 8260B Mod.  
 QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM  
 Associated Lab Samples: 92205025002, 92205025003, 92205025004, 92205025005, 92205025006, 92205025007, 92205025008

METHOD BLANK: 1223732 Matrix: Water  
 Associated Lab Samples: 92205025002, 92205025003, 92205025004, 92205025005, 92205025006, 92205025007, 92205025008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/18/14 14:51	
1,2-Dichloroethane-d4 (S)	%	99	50-150	06/18/14 14:51	
Toluene-d8 (S)	%	77	50-150	06/18/14 14:51	

LABORATORY CONTROL SAMPLE: 1223733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	22.0	110	71-125	
1,2-Dichloroethane-d4 (S)	%			111	50-150	
Toluene-d8 (S)	%			80	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1223734 1223735

Parameter	Units	92204810023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	4.4	20	20	24.9	23.7	103	97	50-150	5	
1,2-Dichloroethane-d4 (S)	%						126	135	50-150		
Toluene-d8 (S)	%						73	73	50-150		

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

QC Batch: MSV/27265 Analysis Method: EPA 8260B Mod.

QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM

Associated Lab Samples: 92205025009, 92205025010, 92205025011

METHOD BLANK: 1223737 Matrix: Water

Associated Lab Samples: 92205025009, 92205025010, 92205025011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/18/14 14:29	
1,2-Dichloroethane-d4 (S)	%	121	50-150	06/18/14 14:29	
Toluene-d8 (S)	%	78	50-150	06/18/14 14:29	

LABORATORY CONTROL SAMPLE: 1223738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	21.1	106	71-125	
1,2-Dichloroethane-d4 (S)	%			112	50-150	
Toluene-d8 (S)	%			79	50-150	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

QC Batch: MSV/27277 Analysis Method: EPA 8260B Mod.

QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM

Associated Lab Samples: 92205025012, 92205025013, 92205025014, 92205025015, 92205025016, 92205025017, 92205025030, 92205025031, 92205025035, 92205025036, 92205025037, 92205025038, 92205025039, 92205025040, 92205025041, 92205025042

METHOD BLANK: 1225102 Matrix: Water

Associated Lab Samples: 92205025012, 92205025013, 92205025014, 92205025015, 92205025016, 92205025017, 92205025030, 92205025031, 92205025035, 92205025036, 92205025037, 92205025038, 92205025039, 92205025040, 92205025041, 92205025042

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/20/14 15:52	
1,2-Dichloroethane-d4 (S)	%	105	50-150	06/20/14 15:52	
Toluene-d8 (S)	%	99	50-150	06/20/14 15:52	

LABORATORY CONTROL SAMPLE: 1225103

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	22.5	112	71-125	
1,2-Dichloroethane-d4 (S)	%			92	50-150	
Toluene-d8 (S)	%			101	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1226933 1226934

Parameter	Units	92205236005		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,4-Dioxane (p-Dioxane)	ug/L	2.2	20	20	56.1	73.4	270	356	50-150	27	R1	
1,2-Dichloroethane-d4 (S)	%						108	103	50-150			
Toluene-d8 (S)	%						96	96	50-150			

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

QC Batch:	OEXT/28269	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water MSSV
Associated Lab Samples:	92205025002, 92205025003, 92205025004, 92205025005, 92205025007, 92205025008, 92205025009, 92205025010, 92205025011, 92205025012, 92205025013, 92205025014, 92205025015, 92205025016, 92205025017, 92205025020, 92205025022, 92205025023, 92205025024		

METHOD BLANK:	1221421	Matrix:	Water
Associated Lab Samples:	92205025002, 92205025003, 92205025004, 92205025005, 92205025007, 92205025008, 92205025009, 92205025010, 92205025011, 92205025012, 92205025013, 92205025014, 92205025015, 92205025016, 92205025017, 92205025020, 92205025022, 92205025023, 92205025024		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Biphenyl (Diphenyl)	ug/L	ND	10.0	06/17/14 19:31	
Diphenyl ether (Phenyl ether)	ug/L	ND	10.0	06/17/14 19:31	
2-Fluorobiphenyl (S)	%	73	27-110	06/17/14 19:31	
Nitrobenzene-d5 (S)	%	69	21-110	06/17/14 19:31	
Terphenyl-d14 (S)	%	68	31-107	06/17/14 19:31	

LABORATORY CONTROL SAMPLE: 1221422						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Biphenyl (Diphenyl)	ug/L	50	37.9	76	38-120	
Diphenyl ether (Phenyl ether)	ug/L	50	37.2	74	51-120	
2-Fluorobiphenyl (S)	%			74	27-110	
Nitrobenzene-d5 (S)	%			58	21-110	
Terphenyl-d14 (S)	%			72	31-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1221423												1221424	
Parameter	Units	92204810023		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual	
		Result	Conc.	Spike Conc.	Spike Conc.								
Biphenyl (Diphenyl)	ug/L	ND	100	100	100	72.5	56.8	73	57	50-150	24		
Diphenyl ether (Phenyl ether)	ug/L	ND	100	100	100	69.4	54.8	69	55	50-150	24		
2-Fluorobiphenyl (S)	%							69	53	27-110			
Nitrobenzene-d5 (S)	%							53	42	21-110			
Terphenyl-d14 (S)	%							54	55	31-107			

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

QC Batch:	OEXT/28301	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water MSSV
Associated Lab Samples:	92205025026		

METHOD BLANK: 1222225 Matrix: Water

Associated Lab Samples: 92205025026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Biphenyl (Diphenyl)	ug/L	ND	10.0	06/23/14 20:59	
Diphenyl ether (Phenyl ether)	ug/L	ND	10.0	06/23/14 20:59	
2-Fluorobiphenyl (S)	%	37	27-110	06/23/14 20:59	
Nitrobenzene-d5 (S)	%	26	21-110	06/23/14 20:59	
Terphenyl-d14 (S)	%	36	31-107	06/23/14 20:59	

LABORATORY CONTROL SAMPLE: 1222226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Biphenyl (Diphenyl)	ug/L	50	25.1	50	38-120	
Diphenyl ether (Phenyl ether)	ug/L	50	23.7	47	51-120	L2
2-Fluorobiphenyl (S)	%			47	27-110	
Nitrobenzene-d5 (S)	%			36	21-110	
Terphenyl-d14 (S)	%			59	31-107	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

QC Batch: OEXT/28455 Analysis Method: EPA 8270  
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV  
 Associated Lab Samples: 92205025021, 92205025038

METHOD BLANK: 1227341 Matrix: Water

Associated Lab Samples: 92205025021, 92205025038

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Biphenyl (Diphenyl)	ug/L	ND	10.0	06/25/14 12:31	
Diphenyl ether (Phenyl ether)	ug/L	ND	10.0	06/25/14 12:31	
2-Fluorobiphenyl (S)	%	81	27-110	06/25/14 12:31	
Nitrobenzene-d5 (S)	%	68	21-110	06/25/14 12:31	
Terphenyl-d14 (S)	%	94	31-107	06/25/14 12:31	

LABORATORY CONTROL SAMPLE & LCSD: 1227342

1227343

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Biphenyl (Diphenyl)	ug/L	50	43.7	38.1	87	76	38-120	14	30	
Diphenyl ether (Phenyl ether)	ug/L	50	41.2	35.8	82	72	51-120	14	30	
2-Fluorobiphenyl (S)	%				85	72	27-110			
Nitrobenzene-d5 (S)	%				61	53	21-110			
Terphenyl-d14 (S)	%				88	85	31-107			

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

QC Batch:	OEXT/28482	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water MSSV
Associated Lab Samples:	92205025019, 92205025025, 92205025027, 92205025028, 92205025029, 92205025030, 92205025031, 92205025037, 92205025040		

METHOD BLANK: 1228205 Matrix: Water  
Associated Lab Samples: 92205025019, 92205025025, 92205025027, 92205025028, 92205025029, 92205025030, 92205025031, 92205025037, 92205025040

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Biphenyl (Diphenyl)	ug/L	ND	10.0	06/26/14 13:06	
Diphenyl ether (Phenyl ether)	ug/L	ND	10.0	06/26/14 13:06	
2-Fluorobiphenyl (S)	%	84	27-110	06/26/14 13:06	
Nitrobenzene-d5 (S)	%	90	21-110	06/26/14 13:06	
Terphenyl-d14 (S)	%	85	31-107	06/26/14 13:06	

LABORATORY CONTROL SAMPLE: 1228206

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Biphenyl (Diphenyl)	ug/L	50	41.2	82	38-120	
Diphenyl ether (Phenyl ether)	ug/L	50	43.6	87	51-120	
2-Fluorobiphenyl (S)	%			83	27-110	
Nitrobenzene-d5 (S)	%			76	21-110	
Terphenyl-d14 (S)	%			88	31-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1228207 1228208

Parameter	Units	92205025019		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	Spike Conc.	Result	MSD Result	% Rec	% Rec				
Biphenyl (Diphenyl)	ug/L	ND	100	100	79.3	60.9	79	61	50-150	26		
Diphenyl ether (Phenyl ether)	ug/L	ND	100	100	90.0	68.4	90	68	50-150	27		
2-Fluorobiphenyl (S)	%						82	61	27-110			
Nitrobenzene-d5 (S)	%						78	57	21-110			
Terphenyl-d14 (S)	%						71	85	31-107			

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG  
Pace Project No.: 92205025

QC Batch: WET/31618 Analysis Method: SM 2320B  
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
Associated Lab Samples: 92205025018, 92205025030, 92205025031, 92205025032, 92205025033, 92205025035, 92205025036, 92205025037, 92205025038, 92205025039, 92205025040

METHOD BLANK: 1222898 Matrix: Water  
Associated Lab Samples: 92205025018, 92205025030, 92205025031, 92205025032, 92205025033, 92205025035, 92205025036, 92205025037, 92205025038, 92205025039, 92205025040

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	ND	5.0	06/17/14 15:31	

LABORATORY CONTROL SAMPLE: 1222899

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	50	47.7	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222900 1222901

Parameter	Units	92205025018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	103	50	50	151	147	96	87	75-125	3	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222902 1222903

Parameter	Units	92205025040 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	103	50	50	143	142	80	77	75-125	1	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

QC Batch:	WET/31595	Analysis Method:	SM 4500-S2D
QC Batch Method:	SM 4500-S2D	Analysis Description:	4500S2D Sulfide Water
Associated Lab Samples:	92205025030, 92205025031, 92205025032, 92205025033, 92205025035, 92205025036, 92205025037, 92205025038, 92205025039, 92205025040		

METHOD BLANK:	1222259	Matrix:	Water
Associated Lab Samples:	92205025030, 92205025031, 92205025032, 92205025033, 92205025035, 92205025036, 92205025037, 92205025038, 92205025039, 92205025040		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/18/14 15:21	

LABORATORY CONTROL SAMPLE: 1222260						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.50	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222263												1222264	
Parameter	Units	92205025039 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual		
Sulfide	mg/L	ND	.5	.5	0.49	0.49	97	97	75-125	0			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222563												1222564	
Parameter	Units	92204938002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual		
Sulfide	mg/L	ND	.5	.5	0.50	0.50	99	99	75-125	0			

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

QC Batch:	WET/31608	Analysis Method:	SM 4500-S2D
QC Batch Method:	SM 4500-S2D	Analysis Description:	4500S2D Sulfide Water
Associated Lab Samples:	92205025018		

METHOD BLANK: 1222565 Matrix: Water

Associated Lab Samples: 92205025018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/17/14 15:17	

LABORATORY CONTROL SAMPLE: 1222566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.53	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222567 1222568

Parameter	Units	92205025018		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Sulfide	mg/L	ND	.5	.5	0.40	0.40	79	79	75-125	0		

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## QUALIFIERS

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

PASI-G Pace Analytical Services - Greenwood

### ANALYTE QUALIFIERS

H5 Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

S5 Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92205025018	RW-133	EPA 9056A	GWD/1339		
92205025030	MW-105	EPA 9056A	GWD/1339		
92205025031	MW-106	EPA 9056A	GWD/1339		
92205025032	MW-132	EPA 9056A	GWD/1339		
92205025033	MW-134	EPA 9056A	GWD/1339		
92205025035	RW-121	EPA 9056A	GWD/1339		
92205025036	MW-120	EPA 9056A	GWD/1339		
92205025037	RW-108	EPA 9056A	GWD/1339		
92205025038	MW-109	EPA 9056A	GWD/1339		
92205025039	MW-118	EPA 9056A	GWD/1339		
92205025040	EW-49	EPA 9056A	GWD/1339		
92205025018	RW-133	EPA 9060A	GWD/1359		
92205025030	MW-105	EPA 9060A	GWD/1360		
92205025031	MW-106	EPA 9060A	GWD/1360		
92205025032	MW-132	EPA 9060A	GWD/1360		
92205025033	MW-134	EPA 9060A	GWD/1360		
92205025035	RW-121	EPA 9060A	GWD/1360		
92205025036	MW-120	EPA 9060A	GWD/1360		
92205025037	RW-108	EPA 9060A	GWD/1360		
92205025038	MW-109	EPA 9060A	GWD/1360		
92205025039	MW-118	EPA 9060A	GWD/1360		
92205025040	EW-49	EPA 9060A	GWD/1360		
92205025018	RW-133	EPA 3010	MPRP/16226	EPA 6010	ICP/14665
92205025030	MW-105	EPA 3010	MPRP/16226	EPA 6010	ICP/14665
92205025031	MW-106	EPA 3010	MPRP/16226	EPA 6010	ICP/14665
92205025032	MW-132	EPA 3010	MPRP/16226	EPA 6010	ICP/14665
92205025033	MW-134	EPA 3010	MPRP/16226	EPA 6010	ICP/14665
92205025035	RW-121	EPA 3010	MPRP/16226	EPA 6010	ICP/14665
92205025036	MW-120	EPA 3010	MPRP/16226	EPA 6010	ICP/14665
92205025037	RW-108	EPA 3010	MPRP/16226	EPA 6010	ICP/14665
92205025038	MW-109	EPA 3010	MPRP/16226	EPA 6010	ICP/14665
92205025039	MW-118	EPA 3010	MPRP/16226	EPA 6010	ICP/14665
92205025040	EW-49	EPA 3010	MPRP/16226	EPA 6010	ICP/14665
92205025002	RW-85	EPA 3510	OEXT/28269	EPA 8270	MSSV/9253
92205025003	DW-2	EPA 3510	OEXT/28269	EPA 8270	MSSV/9253
92205025004	RW-87	EPA 3510	OEXT/28269	EPA 8270	MSSV/9253
92205025005	MW-42	EPA 3510	OEXT/28269	EPA 8270	MSSV/9253
92205025007	MW-39	EPA 3510	OEXT/28269	EPA 8270	MSSV/9253
92205025008	RW-79	EPA 3510	OEXT/28269	EPA 8270	MSSV/9253
92205025009	RW-80	EPA 3510	OEXT/28269	EPA 8270	MSSV/9253
92205025010	MW-53	EPA 3510	OEXT/28269	EPA 8270	MSSV/9253
92205025011	RW-82	EPA 3510	OEXT/28269	EPA 8270	MSSV/9253
92205025012	DW-4	EPA 3510	OEXT/28269	EPA 8270	MSSV/9253
92205025013	RW-86	EPA 3510	OEXT/28269	EPA 8270	MSSV/9253
92205025014	MW-07	EPA 3510	OEXT/28269	EPA 8270	MSSV/9253
92205025015	RW-92	EPA 3510	OEXT/28269	EPA 8270	MSSV/9253
92205025016	RW-91	EPA 3510	OEXT/28269	EPA 8270	MSSV/9253

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CNA/SPARTANBURG  
Pace Project No.: 92205025

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92205025017	MW-05	EPA 3510	OEXT/28269	EPA 8270	MSSV/9253
92205025019	SW-11	EPA 3510	OEXT/28482	EPA 8270	MSSV/9309
92205025020	SW-10	EPA 3510	OEXT/28269	EPA 8270	MSSV/9253
92205025021	SW-9	EPA 3510	OEXT/28455	EPA 8270	MSSV/9293
92205025022	SW-8	EPA 3510	OEXT/28269	EPA 8270	MSSV/9253
92205025023	SW-7	EPA 3510	OEXT/28269	EPA 8270	MSSV/9253
92205025024	SW-5	EPA 3510	OEXT/28269	EPA 8270	MSSV/9253
92205025025	SW-6	EPA 3510	OEXT/28482	EPA 8270	MSSV/9309
92205025026	SW-4	EPA 3510	OEXT/28301	EPA 8270	MSSV/9285
92205025027	SW-3	EPA 3510	OEXT/28482	EPA 8270	MSSV/9309
92205025028	SW-2	EPA 3510	OEXT/28482	EPA 8270	MSSV/9309
92205025029	SW-1	EPA 3510	OEXT/28482	EPA 8270	MSSV/9309
92205025030	MW-105	EPA 3510	OEXT/28482	EPA 8270	MSSV/9309
92205025031	MW-106	EPA 3510	OEXT/28482	EPA 8270	MSSV/9309
92205025037	RW-108	EPA 3510	OEXT/28482	EPA 8270	MSSV/9309
92205025038	MW-109	EPA 3510	OEXT/28455	EPA 8270	MSSV/9293
92205025040	EW-49	EPA 3510	OEXT/28482	EPA 8270	MSSV/9309
92205025001	TRIP BLANK02	EPA 8260	MSV/27230		
92205025018	RW-133	EPA 8260	MSV/27230		
92205025019	SW-11	EPA 8260	MSV/27230		
92205025020	SW-10	EPA 8260	MSV/27230		
92205025021	SW-9	EPA 8260	MSV/27230		
92205025022	SW-8	EPA 8260	MSV/27230		
92205025023	SW-7	EPA 8260	MSV/27230		
92205025024	SW-5	EPA 8260	MSV/27230		
92205025025	SW-6	EPA 8260	MSV/27230		
92205025026	SW-4	EPA 8260	MSV/27230		
92205025027	SW-3	EPA 8260	MSV/27230		
92205025028	SW-2	EPA 8260	MSV/27230		
92205025029	SW-1	EPA 8260	MSV/27230		
92205025030	MW-105	EPA 8260	MSV/27230		
92205025031	MW-106	EPA 8260	MSV/27233		
92205025032	MW-132	EPA 8260	MSV/27233		
92205025033	MW-134	EPA 8260	MSV/27233		
92205025035	RW-121	EPA 8260	MSV/27233		
92205025036	MW-120	EPA 8260	MSV/27233		
92205025037	RW-108	EPA 8260	MSV/27233		
92205025038	MW-109	EPA 8260	MSV/27233		
92205025039	MW-118	EPA 8260	MSV/27233		
92205025040	EW-49	EPA 8260	MSV/27233		
92205025041	SW-13	EPA 8260	MSV/27233		
92205025042	SW-14	EPA 8260	MSV/27233		
92205025002	RW-85	EPA 8260B Mod.	MSV/27264		

### REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92205025003	DW-2	EPA 8260B Mod.	MSV/27264		
92205025004	RW-87	EPA 8260B Mod.	MSV/27264		
92205025005	MW-42	EPA 8260B Mod.	MSV/27264		
92205025006	MW-09A	EPA 8260B Mod.	MSV/27264		
92205025007	MW-39	EPA 8260B Mod.	MSV/27264		
92205025008	RW-79	EPA 8260B Mod.	MSV/27264		
92205025009	RW-80	EPA 8260B Mod.	MSV/27265		
92205025010	MW-53	EPA 8260B Mod.	MSV/27265		
92205025011	RW-82	EPA 8260B Mod.	MSV/27265		
92205025012	DW-4	EPA 8260B Mod.	MSV/27277		
92205025013	RW-86	EPA 8260B Mod.	MSV/27277		
92205025014	MW-07	EPA 8260B Mod.	MSV/27277		
92205025015	RW-92	EPA 8260B Mod.	MSV/27277		
92205025016	RW-91	EPA 8260B Mod.	MSV/27277		
92205025017	MW-05	EPA 8260B Mod.	MSV/27277		
92205025019	SW-11	EPA 8260B Mod.	MSV/27225		
92205025020	SW-10	EPA 8260B Mod.	MSV/27240		
92205025021	SW-9	EPA 8260B Mod.	MSV/27226		
92205025022	SW-8	EPA 8260B Mod.	MSV/27226		
92205025023	SW-7	EPA 8260B Mod.	MSV/27226		
92205025024	SW-5	EPA 8260B Mod.	MSV/27226		
92205025025	SW-6	EPA 8260B Mod.	MSV/27226		
92205025026	SW-4	EPA 8260B Mod.	MSV/27226		
92205025027	SW-3	EPA 8260B Mod.	MSV/27226		
92205025028	SW-2	EPA 8260B Mod.	MSV/27240		
92205025029	SW-1	EPA 8260B Mod.	MSV/27240		
92205025030	MW-105	EPA 8260B Mod.	MSV/27277		
92205025031	MW-106	EPA 8260B Mod.	MSV/27277		
92205025035	RW-121	EPA 8260B Mod.	MSV/27277		
92205025036	MW-120	EPA 8260B Mod.	MSV/27277		
92205025037	RW-108	EPA 8260B Mod.	MSV/27277		
92205025038	MW-109	EPA 8260B Mod.	MSV/27277		
92205025039	MW-118	EPA 8260B Mod.	MSV/27277		
92205025040	EW-49	EPA 8260B Mod.	MSV/27277		
92205025041	SW-13	EPA 8260B Mod.	MSV/27277		
92205025042	SW-14	EPA 8260B Mod.	MSV/27277		
92205025018	RW-133	SM 2320B	WET/31618		
92205025030	MW-105	SM 2320B	WET/31618		
92205025031	MW-106	SM 2320B	WET/31618		
92205025032	MW-132	SM 2320B	WET/31618		
92205025033	MW-134	SM 2320B	WET/31618		
92205025035	RW-121	SM 2320B	WET/31618		
92205025036	MW-120	SM 2320B	WET/31618		
92205025037	RW-108	SM 2320B	WET/31618		
92205025038	MW-109	SM 2320B	WET/31618		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

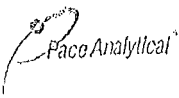
Project: CNA/SPARTANBURG

Pace Project No.: 92205025

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92205025039	MW-118	SM 2320B	WET/31618		
92205025040	EW-49	SM 2320B	WET/31618		
92205025018	RW-133	SM 4500-S2D	WET/31608		
92205025030	MW-105	SM 4500-S2D	WET/31595		
92205025031	MW-106	SM 4500-S2D	WET/31595		
92205025032	MW-132	SM 4500-S2D	WET/31595		
92205025033	MW-134	SM 4500-S2D	WET/31595		
92205025035	RW-121	SM 4500-S2D	WET/31595		
92205025036	MW-120	SM 4500-S2D	WET/31595		
92205025037	RW-108	SM 4500-S2D	WET/31595		
92205025038	MW-109	SM 4500-S2D	WET/31595		
92205025039	MW-118	SM 4500-S2D	WET/31595		
92205025040	EW-49	SM 4500-S2D	WET/31595		

### REPORT OF LABORATORY ANALYSIS

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Document Name:  
**Sample Condition Upon Receipt (SCUR)**  
 Document Number:  
**F-GWD-QA-015-Rev00**

Document Revised: February 6, 2014  
 Page 1 of 2  
 Issuing Authority:  
 Pace Greenwood Quality Office

Client Name: AFCOM

10F4

Where Received:  Greenwood  Asheville  Eden  Raleigh  Huntersville

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

Optional  
 Proj. Due Date:  
 Proj. Name:

Custody Seal on Cooler/Box Present:  yes  no Seals Intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used: IR Gun TH-72 Type of Ice: Wet Blue None  Samples on Ice, cooling process has begun

Temp Correction Factor TH-72: Add / Subtract (circle) 0.7 deg C

Corrected Cooler Temp.: 3.4 C Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: M 6.12.14

Temp should be above freezing to 6°C	Comments:
Chain of Custody Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>orthophosphate pH.</u>
Rush Turn Around Time Requested: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>H<sub>2</sub>O</u>	
All containers needing preservation have been checked: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Samples checked for dechlorination: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Headspace in VOA Vials (>6mm): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Custody Seals Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____	

Field Data Required? Y (N)

Client Notification/ Resolution:

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: RW-119 was not received on 6/11/14. RW-119 was received on 6/13/14 and will be reported on 92205236, Kb.

SCURF Review: [Signature] Date: 6/12/14  
 SRF Review: [Signature] Date: 6/12/14

Place label here  
92205025 OR  
 Handwrite project number  
 (if no label available)

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A  
Required Client Information:

Company: Aecom  
Address: 1500 Peachtree St. NE  
St. 500 Atlanta GA 30309  
Email To:  
Phone: 404-965-9787 Fax:  
Requested Due Date/TAT:

Section B  
Required Project Information:

Report To: Bryon Dobbey  
Copy To:  
Purchase Order No.:  
Project Name: CNA Spentolubury  
Project Number:

Section C  
Invoice Information:

Attention: Bryon Dobbey  
Company Name:  
Address:  
Page Quote Reference: S00001  
Page Project Manager:  
Page Profile #:

REGULATORY AGENCY

NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER  
Site Location STATE: SC

ITEM #	Section D Required Client Information	Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)							
		MATRIX / CODE				COMPOSITE START	COMPOSITE END/GRAB	DATE	TIME				DATE	TIME	Y/N	VOCs 8260	1,4 Dioxane	Down Therm A	pH	Orthophosphate	Sulfate	Sulfide	Alk	Cl-						NO <sub>2</sub> /NO <sub>3</sub>	TOC	Diss Mn				
		Drinking Water	Waste Water																														WT	WW	P	SL
1	TRP Blank OA																																			
2	RW-85																																			
3	DW-2																																			
4	RW-87																																			
5	MW-42																																			
6	MW-09A																																			
7	MW-39																																			
8	RW-133																																			
9	RW-79																																			
10	SW-11																																			
11	SW-10																																			
12	SW-9																																			
ADDITIONAL COMMENTS						RELINQUISHER BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS																		
						Dobbey, Bryon		6/11/14		7:38		Dobbey, Bryon		6/11/14		18:35																				
						Dobbey, Bryon		6.11.14		19:30		Stephens, Michael		6.11.14		07:40		9:14																		

06205005  
Pace Project No./Lab I.D.

ORIGINAL

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.  
F-ALL-C-020rev.07, 15-May-2007



### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 4  
1787748

Section A Required Client Information: Company: <u>Acom</u>		Section B Report To: <u>Bayou Dohdgen</u>		Section C Invoice Information: Attention: <u>Bayou Dohdgen</u>	
Address: <u>1500 Peachtree St NE</u>		Copy To:		Company Name:	
City: <u>Atlanta, GA 30309</u>		Purchase Order No.:		Address:	
Email To:		Project Name: <u>CNA / Spartanburg</u>		Pace Queue: <u>SCM</u>	
Phone: <u>404 965 9657</u> Fax:		Project Number:		Reference:	
Requested Due Date/TAT:		Project Name:		Pace Project Manager:	
		Project Number:		Pace Profile #:	
		Requested Analysis Filtered (Y/N)		REGULATORY AGENCY	
				<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RORA <input type="checkbox"/> OTHER	
		Site Location STATE: <u>SC</u>			

ITEM #	Section D Required Client Information  SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX L CODE DW Drinking Water WT Waste Water WW Waste Water Product P Soil/Solid SL WIP Wipe AIR Air TS Tissue OT Other	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test			Residual Chlorine (Y/N)	Pace Project No./ Lab ID.																
			MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)							COMPOSITE START	COMPOSITE END/STAB	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Y			N	N														
1	SW-8				6/11/14	1050				2																												
2	SW-7				6/11/14	1125				2																												
3	SW-5				6/11/14	1200				2																												
4	SW-6				6/11/14	1235				2																												
5	SW-4				6/11/14	1330				2																												
6	SW-3				6/11/14	1350				2																												
7	SW-2				6/11/14	1425				2																												
8	SW-1				6/11/14	1500				2																												
9	RW-80				6/11/14	0855				2																												
10	MW-53				6/11/14	0900				2																												
11	RW-82				6/11/14	0535				2																												
12	DW-4				6/11/14	2000				2																												

ADDITIONAL COMMENTS: Bayou Dohdgen

REINQUISHED BY / AFFILIATION: Bayou Dohdgen

DATE: 6/11/14 TIME: 10:50

ACCEPTED BY / AFFILIATION: Bayou Dohdgen

DATE: 6/11/14 TIME: 11:35

SAMPLER NAME AND SIGNATURE: Anthony Hill

PRINT Name of SAMPLER: Anthony Hill

SIGNATURE of SAMPLER: [Signature]

DATE Signed (MM/DD/YYYY): 6/11/14

Temp in °C: 34

Received on Ice (Y/N): Y

Custody Sealed Cooler (Y/N): Y

Samples Intact (Y/N): Y

ORIGINAL

\*Important: Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020-rev.07, 15-May-2007



**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information: Company: <u>Acem</u> Address: <u>1300 Peachtree St. NE</u> <u>3030 Atlanta, GA 30309</u> Email To: _____ Phone: <u>404.596.57</u> Fax: _____ Requested Due Date/TAT: _____		<b>Section B</b> Required Project Information: Report To: <u>Byron Dahlgren</u> Copy To: _____ Purchase Order No.: _____ Project Name: <u>CNA/Spartanburg</u> Project Number: _____		<b>Section C</b> Invoice Information: Attention: <u>Byron Dahlgren</u> Company Name: _____ Address: _____ Reference: <u>same</u> Pace Quote Manager: _____ Pace Profile #: _____	
REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____			Site Location STATE: <u>SC</u>		

ITEM #	Section D Required Client Information Sample IDs MUST BE UNIQUE (A-Z, 0-9 / -)	Matrix Codes MATRIX 1 CODE Drinking Water DW Waste Water WW Wastewater P Product SL Soil/Solid OL Oil WP Wine AR Air TS Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./Lab ID.		
					DATE	TIME			DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH + ZnAc				Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol
1	RW-108		W G	-	6/11/14	11:44	-	12												
2	MW-109		W G	-	6/11/14	13:17	-	12												
3	MW-118		W G	-	6/11/14	15:50	-	16												
4	SW-13		W G	-	6/11/14	16:50	-	6												
5	SW-14		W G	-	6/11/14	16:50	-	6												
6	EW-49		W G	-	6/11/14	16:55	-	13												

ADDITIONAL COMMENTS RELINQUISHED BY / AFFILIATION <u>Ben Hill</u> <u>6/11/14</u> <u>Ben Hill</u> <u>6/11/14</u> <u>Ben Hill</u> <u>6/11/14</u> <u>Ben Hill</u> <u>6/11/14</u> <u>Ben Hill</u> <u>6/11/14</u> <u>Ben Hill</u> <u>6/11/14</u> ACCEPTED BY / AFFILIATION <u>Ben Hill</u> <u>6/11/14</u> <u>Ben Hill</u> <u>6/11/14</u> <u>Ben Hill</u> <u>6/11/14</u> <u>Ben Hill</u> <u>6/11/14</u> SAMPLE CONDITIONS Temp in °C _____ Received on Ice (Y/N) _____ Custody Sealed Cooler (Y/N) _____ Samples Intact (Y/N) _____	
--	--

Important Note: By signing this form you are accepting Face's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.  
F-ALL-Q-020rev.07, 15-May-2007

ORIGINAL

July 08, 2014

Bryon Dahlgren  
AECOM  
10 Patewood Drive, Bldg 6  
Suite 500  
Greenville, SC 29615

RE: Project: CNA/SPARTANBURG  
Pace Project No.: 92205236

Dear Bryon Dahlgren:

Enclosed are the analytical results for sample(s) received by the laboratory on June 13, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin  
kevin.godwin@pacelabs.com  
Project Manager

Enclosures

cc: Aynsley Zollinger, AECOM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

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### Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
West Virginia Certification #: 357  
Virginia/VELAP Certification #: 460221

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### Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
Massachusetts Certification #: M-NC030  
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40  
South Carolina Certification #: 99030001  
West Virginia Certification #: 356  
Virginia/VELAP Certification #: 460222

---

### Greenwood Certification IDs

816 Durst Avenue East, Greenwood, SC 29649  
South Carolina Laboratory ID #: 24562  
North Carolina Division of Water Resources Certification  
number 25

Florida Certification number E87633  
Virginia VELAP ID: 460250  
Asbestos NVLAP accreditation: 101410-0

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92205236001	RW-119	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92205236002	EW-50	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92205236003	RW-129	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	GAW	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92205236004	MW-98	EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205236005	MW-99	EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
92205236006	EW-52	SM 4500-S2D	SAE	1	PASI-A
		EPA 9056A	CDC	5	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
SM 2320B	MDW	1	PASI-A		
SM 4500-S2D	SAE	1	PASI-A		

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### SAMPLE ANALYTE COUNT

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92205236007	MW-130	EPA 9056A	CDC	4	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
92205236008	EW-36	EPA 9056A	CDC	4	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
92205236009	EW-53	EPA 9056A	CDC	4	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
92205236010	DW-5	EPA 9056A	CDC	4	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
92205236011	EW-41	EPA 9056A	CDC	4	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C

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### SAMPLE ANALYTE COUNT

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92205236012	RW-65	SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		EPA 9056A	CDC	4	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
92205236013	EW-39	SM 4500-S2D	SAE	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		EPA 9056A	CDC	4	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		EPA 9056A	CDC	4	PASI-G
92205236014	RW-47	EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		EPA 9056A	CDC	4	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260B Mod.	DLK	3	PASI-C
92205236015	EW-31	SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		EPA 9056A	CDC	4	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
92205236016	RW-29	EPA 9056A	CDC	4	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	BPJ	5	PASI-C

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### SAMPLE ANALYTE COUNT

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
92205236017	DW-6	EPA 8260	NU1	53	PASI-C		
		EPA 8260B Mod.	DLK	3	PASI-C		
		SM 2320B	MDW	1	PASI-A		
		SM 4500-S2D	SAE	1	PASI-A		
		EPA 365.1	AES2	1	PASI-A		
		EPA 9056A	CDC	4	PASI-G		
		EPA 9060A	CDC	5	PASI-G		
		EPA 6010	JMW	1	PASI-A		
		EPA 8270	BPJ	5	PASI-C		
		EPA 8260	NU1	53	PASI-C		
		EPA 8260B Mod.	DLK	3	PASI-C		
		SM 2320B	MDW	1	PASI-A		
		SM 4500-S2D	SAE	1	PASI-A		
		EPA 365.1	AES2	1	PASI-A		
92205236018	MW-46	EPA 9056A	CDC	4	PASI-G		
		EPA 9060A	CDC	5	PASI-G		
		EPA 6010	JMW	1	PASI-A		
		EPA 8260	NU1	53	PASI-C		
		SM 2320B	MDW	1	PASI-A		
		SM 4500-S2D	SAE	1	PASI-A		
		EPA 365.1	AES2	1	PASI-A		
		92205236019	EW-30	EPA 9056A	CDC	4	PASI-G
				EPA 9060A	CDC	5	PASI-G
				EPA 6010	JMW	1	PASI-A
				EPA 8260	NU1	53	PASI-C
				SM 2320B	MDW	1	PASI-A
				SM 4500-S2D	SAE	1	PASI-A
				EPA 365.1	AES2	1	PASI-A
92205236020	MW-103			EPA 9056A	CDC	4	PASI-G
				EPA 9060A	CDC	5	PASI-G
				EPA 6010	JMW	1	PASI-A
				EPA 8270	BPJ	5	PASI-C
				EPA 8260	NU1	53	PASI-C
				EPA 8260B Mod.	DLK	3	PASI-C
				SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A		
		EPA 365.1	AES2	1	PASI-A		

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### SAMPLE ANALYTE COUNT

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92205236021	RW-48	EPA 9056A	CDC	4	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8270	BPJ	5	PASI-C
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
92205236022	EW-37	EPA 9056A	CDC	4	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92205236023	MW-45	EPA 365.1	AES2	1	PASI-A
		EPA 9056A	CDC	4	PASI-G
		EPA 9060A	CDC	5	PASI-G
		EPA 6010	JMW	1	PASI-A
		EPA 8260	NU1	53	PASI-C
		SM 2320B	MDW	1	PASI-A
		SM 4500-S2D	SAE	1	PASI-A
92205236024	EW-43	EPA 365.1	AES2	1	PASI-A
		EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205236025	EW-28	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205236027	EW-02	EPA 8270	BPJ	5	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92205236028	TRIP BLANK03	EPA 8260	NU1	53	PASI-C

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: RW-119		Lab ID: 92205236001	Collected: 06/12/14 07:00	Received: 06/13/14 07:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	2.4	mg/L	1.0	1		06/13/14 03:16	16887-00-6	
Nitrate as N	0.45	mg/L	0.10	1		06/13/14 03:16	14797-55-8	
Nitrite as N	ND	mg/L	0.10	1		06/13/14 03:16	14797-65-0	
Orthophosphate as P	ND	mg/L	0.10	1		06/13/14 03:16		
Sulfate	7.2	mg/L	1.0	1		06/13/14 03:16	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	1.3	mg/L	1.0	1		06/25/14 15:43	7440-44-0	
Total Organic Carbon	1.3	mg/L	1.0	1		06/25/14 15:43	7440-44-0	
Total Organic Carbon	1.4	mg/L	1.0	1		06/25/14 15:43	7440-44-0	
Total Organic Carbon	1.3	mg/L	1.0	1		06/25/14 15:43	7440-44-0	
Mean Total Organic Carbon	1.3	mg/L	1.0	1		06/25/14 15:43	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	ND	ug/L	5.0	1	06/17/14 14:11	06/18/14 03:26	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	240	ug/L	25.0	1		06/18/14 00:55	67-64-1	
Benzene	ND	ug/L	5.0	1		06/18/14 00:55	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/18/14 00:55	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/18/14 00:55	75-25-2	
Bromomethane	ND	ug/L	10.0	1		06/18/14 00:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/18/14 00:55	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/18/14 00:55	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/18/14 00:55	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/18/14 00:55	108-90-7	
Chloroethane	ND	ug/L	10.0	1		06/18/14 00:55	75-00-3	
Chloroform	170	ug/L	10.0	2		06/18/14 12:34	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/18/14 00:55	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		06/18/14 00:55	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/18/14 00:55	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/18/14 00:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/18/14 00:55	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/18/14 00:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/18/14 00:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/18/14 00:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/18/14 00:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/18/14 00:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/18/14 00:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/18/14 00:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/18/14 00:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/18/14 00:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/18/14 00:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/18/14 00:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/18/14 00:55	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/18/14 00:55	100-41-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: RW-119		Lab ID: 92205236001	Collected: 06/12/14 07:00	Received: 06/13/14 07:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND	ug/L	10.0	1		06/18/14 00:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/18/14 00:55	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/18/14 00:55	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/18/14 00:55	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/18/14 00:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/18/14 00:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/18/14 00:55	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/18/14 00:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/18/14 00:55	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/18/14 00:55	127-18-4	
Toluene	ND	ug/L	5.0	1		06/18/14 00:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/18/14 00:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/18/14 00:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/18/14 00:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/18/14 00:55	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/18/14 00:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/18/14 00:55	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/18/14 00:55	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/18/14 00:55	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/18/14 00:55	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/18/14 00:55	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	103	%	70-130	1		06/18/14 00:55	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		06/18/14 00:55	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		06/18/14 00:55	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	33.9	ug/L	2.0	1		06/20/14 21:55	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	104	%	50-150	1		06/20/14 21:55	17060-07-0	
Toluene-d8 (S)	98	%	50-150	1		06/20/14 21:55	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	68.5	mg/L	5.0	1		06/17/14 19:56		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND	mg/L	0.10	1		06/18/14 15:21	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG  
Pace Project No.: 92205236

Sample: EW-50	Lab ID: 92205236002	Collected: 06/11/14 18:20	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	3.1 mg/L		1.0	1		06/13/14 03:47	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/13/14 03:47	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/13/14 03:47	14797-65-0	
Orthophosphate as P	0.91 mg/L		0.10	1		06/13/14 03:47		
Sulfate	3.6 mg/L		1.0	1		06/13/14 03:47	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	7.5 mg/L		1.0	1		06/25/14 17:17	7440-44-0	
Total Organic Carbon	5.3 mg/L		1.0	1		06/25/14 17:17	7440-44-0	
Total Organic Carbon	6.2 mg/L		1.0	1		06/25/14 17:17	7440-44-0	
Total Organic Carbon	5.6 mg/L		1.0	1		06/25/14 17:17	7440-44-0	
Mean Total Organic Carbon	6.2 mg/L		1.0	1		06/25/14 17:17	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	9.8 ug/L		5.0	1	06/17/14 14:11	06/18/14 03:35	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/17/14 07:40	67-64-1	
Benzene	ND ug/L		5.0	1		06/17/14 07:40	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/17/14 07:40	75-27-4	
Bromoform	ND ug/L		5.0	1		06/17/14 07:40	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/17/14 07:40	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/17/14 07:40	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/17/14 07:40	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/17/14 07:40	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/17/14 07:40	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/17/14 07:40	75-00-3	
Chloroform	ND ug/L		5.0	1		06/17/14 07:40	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/17/14 07:40	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/17/14 07:40	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/17/14 07:40	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/17/14 07:40	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/17/14 07:40	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 07:40	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 07:40	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 07:40	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/17/14 07:40	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/17/14 07:40	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/17/14 07:40	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/17/14 07:40	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/17/14 07:40	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/17/14 07:40	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/17/14 07:40	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/17/14 07:40	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/17/14 07:40	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/17/14 07:40	100-41-4	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: <b>EW-50</b>		Lab ID: <b>92205236002</b>	Collected: 06/11/14 18:20	Received: 06/13/14 07:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND	ug/L	10.0	1		06/17/14 07:40	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/17/14 07:40	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/17/14 07:40	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/17/14 07:40	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/17/14 07:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/17/14 07:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/17/14 07:40	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/17/14 07:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/14 07:40	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/17/14 07:40	127-18-4	
Toluene	ND	ug/L	5.0	1		06/17/14 07:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/17/14 07:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/17/14 07:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/17/14 07:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/17/14 07:40	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/17/14 07:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/17/14 07:40	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/17/14 07:40	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/17/14 07:40	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/17/14 07:40	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/17/14 07:40	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101	%	70-130	1		06/17/14 07:40	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		06/17/14 07:40	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		06/17/14 07:40	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	<b>588</b>	mg/L	5.0	1		06/17/14 17:37		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND	mg/L	0.10	1		06/18/14 15:21	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: RW-129	Lab ID: 92205236003	Collected: 06/11/14 18:44	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	12.9 mg/L		1.0	1		06/13/14 04:17	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/13/14 04:17	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/13/14 04:17	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/13/14 04:17		
Sulfate	6.3 mg/L		1.0	1		06/13/14 04:17	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	4.8 mg/L		1.0	1		06/25/14 17:46	7440-44-0	
Total Organic Carbon	5.0 mg/L		1.0	1		06/25/14 17:46	7440-44-0	
Total Organic Carbon	5.3 mg/L		1.0	1		06/25/14 17:46	7440-44-0	
Total Organic Carbon	4.6 mg/L		1.0	1		06/25/14 17:46	7440-44-0	
Mean Total Organic Carbon	4.9 mg/L		1.0	1		06/25/14 17:46	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	189 ug/L		5.0	1	06/17/14 14:11	06/18/14 03:38	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/17/14 22:39	67-64-1	
Benzene	ND ug/L		5.0	1		06/17/14 22:39	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/17/14 22:39	75-27-4	
Bromoform	ND ug/L		5.0	1		06/17/14 22:39	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/17/14 22:39	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/17/14 22:39	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/17/14 22:39	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/17/14 22:39	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/17/14 22:39	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/17/14 22:39	75-00-3	
Chloroform	7.8 ug/L		5.0	1		06/17/14 22:39	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/17/14 22:39	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/17/14 22:39	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/17/14 22:39	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/17/14 22:39	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/17/14 22:39	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 22:39	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 22:39	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/17/14 22:39	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/17/14 22:39	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/17/14 22:39	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/17/14 22:39	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/17/14 22:39	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/17/14 22:39	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/17/14 22:39	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/17/14 22:39	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/17/14 22:39	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/17/14 22:39	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/17/14 22:39	100-41-4	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

<b>Sample: RW-129</b>		<b>Lab ID: 92205236003</b>	Collected: 06/11/14 18:44	Received: 06/13/14 07:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
2-Hexanone	ND	ug/L	10.0	1		06/17/14 22:39	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/17/14 22:39	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/17/14 22:39	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/17/14 22:39	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/17/14 22:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/17/14 22:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/17/14 22:39	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/17/14 22:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/14 22:39	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/17/14 22:39	127-18-4	
Toluene	ND	ug/L	5.0	1		06/17/14 22:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/17/14 22:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/17/14 22:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/17/14 22:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/17/14 22:39	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/17/14 22:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/17/14 22:39	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/17/14 22:39	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/17/14 22:39	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/17/14 22:39	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/17/14 22:39	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	104	%	70-130	1		06/17/14 22:39	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		06/17/14 22:39	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		06/17/14 22:39	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	<b>223</b>	mg/L	5.0	1		06/17/14 19:44		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND	mg/L	0.10	1		06/18/14 15:21	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: MW-98		Lab ID: 92205236004	Collected: 06/12/14 08:40	Received: 06/13/14 07:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		06/18/14 01:11	67-64-1	
Benzene	ND	ug/L	5.0	1		06/18/14 01:11	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/18/14 01:11	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/18/14 01:11	75-25-2	
Bromomethane	ND	ug/L	10.0	1		06/18/14 01:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/18/14 01:11	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/18/14 01:11	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/18/14 01:11	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/18/14 01:11	108-90-7	
Chloroethane	ND	ug/L	10.0	1		06/18/14 01:11	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/18/14 01:11	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/18/14 01:11	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		06/18/14 01:11	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/18/14 01:11	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/18/14 01:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/18/14 01:11	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/18/14 01:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/18/14 01:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/18/14 01:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/18/14 01:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/18/14 01:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/18/14 01:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/18/14 01:11	75-35-4	
cis-1,2-Dichloroethene	<b>162</b>	ug/L	5.0	1		06/18/14 01:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/18/14 01:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/18/14 01:11	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/18/14 01:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/18/14 01:11	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/18/14 01:11	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/18/14 01:11	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/18/14 01:11	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/18/14 01:11	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/18/14 01:11	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/18/14 01:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/18/14 01:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/18/14 01:11	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/18/14 01:11	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/18/14 01:11	79-34-5	
Tetrachloroethene	<b>29.6</b>	ug/L	5.0	1		06/18/14 01:11	127-18-4	
Toluene	ND	ug/L	5.0	1		06/18/14 01:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/18/14 01:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/18/14 01:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/18/14 01:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/18/14 01:11	79-00-5	
Trichloroethene	<b>14.9</b>	ug/L	5.0	1		06/18/14 01:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/18/14 01:11	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/18/14 01:11	76-13-1	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

<b>Sample: MW-98</b>		<b>Lab ID: 92205236004</b>	Collected: 06/12/14 08:40	Received: 06/13/14 07:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	10.0	1		06/18/14 01:11	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/18/14 01:11	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/18/14 01:11	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101 %		70-130	1		06/18/14 01:11	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/18/14 01:11	17060-07-0	
Toluene-d8 (S)	101 %		70-130	1		06/18/14 01:11	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>42.3</b>	ug/L	4.0	2		06/20/14 22:16	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	103 %		50-150	2		06/20/14 22:16	17060-07-0	
Toluene-d8 (S)	97 %		50-150	2		06/20/14 22:16	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: MW-99	Lab ID: 92205236005	Collected: 06/12/14 09:10	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>								
Analytical Method: EPA 9056A								
Chloride	1.4 mg/L		1.0	1		06/13/14 04:48	16887-00-6	
Nitrate as N	0.92 mg/L		0.10	1		06/13/14 04:48	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/13/14 04:48	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/13/14 04:48		
Sulfate	ND mg/L		1.0	1		06/13/14 04:48	14808-79-8	
<b>Total Organic Carbon, GWD</b>								
Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 18:13	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 18:13	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 18:13	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 18:13	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/25/14 18:13	7440-44-0	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	37.2 ug/L		5.0	1	06/17/14 14:11	06/18/14 03:42	7439-96-5	
<b>8270 MSSV Semivolatile Organic</b>								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 19:22	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 19:22	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	88 %		21-110	1	06/24/14 15:36	06/26/14 19:22	4165-60-0	H5
2-Fluorobiphenyl (S)	80 %		27-110	1	06/24/14 15:36	06/26/14 19:22	321-60-8	
Terphenyl-d14 (S)	90 %		31-107	1	06/24/14 15:36	06/26/14 19:22	1718-51-0	
<b>8260 MSV</b>								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/18/14 01:26	67-64-1	
Benzene	ND ug/L		5.0	1		06/18/14 01:26	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/18/14 01:26	75-27-4	
Bromoform	ND ug/L		5.0	1		06/18/14 01:26	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/18/14 01:26	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/18/14 01:26	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/18/14 01:26	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/18/14 01:26	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/18/14 01:26	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/18/14 01:26	75-00-3	
Chloroform	6.6 ug/L		5.0	1		06/18/14 01:26	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/18/14 01:26	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/18/14 01:26	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/18/14 01:26	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/18/14 01:26	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/18/14 01:26	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 01:26	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 01:26	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 01:26	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/18/14 01:26	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/18/14 01:26	75-34-3	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: MW-99		Lab ID: 92205236005	Collected: 06/12/14 09:10	Received: 06/13/14 07:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
1,2-Dichloroethane	ND	ug/L	5.0	1		06/18/14 01:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/18/14 01:26	75-35-4	
cis-1,2-Dichloroethene	<b>108</b>	ug/L	5.0	1		06/18/14 01:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/18/14 01:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/18/14 01:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/18/14 01:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/18/14 01:26	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/18/14 01:26	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/18/14 01:26	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/18/14 01:26	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/18/14 01:26	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/18/14 01:26	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/18/14 01:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/18/14 01:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/18/14 01:26	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/18/14 01:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/18/14 01:26	79-34-5	
Tetrachloroethene	<b>127</b>	ug/L	5.0	1		06/18/14 01:26	127-18-4	
Toluene	ND	ug/L	5.0	1		06/18/14 01:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/18/14 01:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/18/14 01:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/18/14 01:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/18/14 01:26	79-00-5	
Trichloroethene	<b>26.2</b>	ug/L	5.0	1		06/18/14 01:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/18/14 01:26	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/18/14 01:26	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/18/14 01:26	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/18/14 01:26	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/18/14 01:26	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	103 %		70-130	1		06/18/14 01:26	460-00-4	
1,2-Dichloroethane-d4 (S)	101 %		70-130	1		06/18/14 01:26	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/18/14 01:26	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>2.2</b>	ug/L	2.0	1		06/20/14 22:37	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	105 %		50-150	1		06/20/14 22:37	17060-07-0	
Toluene-d8 (S)	98 %		50-150	1		06/20/14 22:37	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1		06/17/14 20:05		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND	mg/L	0.10	1		06/18/14 15:21	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: EW-52	Lab ID: 92205236006	Collected: 06/12/14 08:05	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>								
Analytical Method: EPA 9056A								
Chloride	2.9 mg/L		1.0	1		06/13/14 05:19	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/13/14 05:19	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/13/14 05:19	14797-65-0	
Orthophosphate as P	ND mg/L		0.10	1		06/13/14 05:19		
Sulfate	ND mg/L		1.0	1		06/13/14 05:19	14808-79-8	
<b>Total Organic Carbon, GWD</b>								
Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 18:41	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 18:41	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 18:41	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 18:41	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/25/14 18:41	7440-44-0	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	210 ug/L		5.0	1	06/17/14 14:11	06/18/14 03:45	7439-96-5	
<b>8270 MSSV Semivolatile Organic</b>								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/18/14 09:17	06/20/14 19:42	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/18/14 09:17	06/20/14 19:42	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	51 %		21-110	1	06/18/14 09:17	06/20/14 19:42	4165-60-0	P2
2-Fluorobiphenyl (S)	60 %		27-110	1	06/18/14 09:17	06/20/14 19:42	321-60-8	
Terphenyl-d14 (S)	69 %		31-107	1	06/18/14 09:17	06/20/14 19:42	1718-51-0	
<b>8260 MSV</b>								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/18/14 01:42	67-64-1	
Benzene	ND ug/L		5.0	1		06/18/14 01:42	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/18/14 01:42	75-27-4	
Bromoform	ND ug/L		5.0	1		06/18/14 01:42	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/18/14 01:42	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/18/14 01:42	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/18/14 01:42	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/18/14 01:42	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/18/14 01:42	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/18/14 01:42	75-00-3	
Chloroform	ND ug/L		5.0	1		06/18/14 01:42	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/18/14 01:42	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/18/14 01:42	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/18/14 01:42	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/18/14 01:42	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/18/14 01:42	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 01:42	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 01:42	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 01:42	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/18/14 01:42	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/18/14 01:42	75-34-3	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: EW-52	Lab ID: 92205236006	Collected: 06/12/14 08:05	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
1,2-Dichloroethane	ND ug/L		5.0	1		06/18/14 01:42	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/18/14 01:42	75-35-4	
cis-1,2-Dichloroethene	<b>56.9</b> ug/L		5.0	1		06/18/14 01:42	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 01:42	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/18/14 01:42	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 01:42	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 01:42	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/18/14 01:42	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/18/14 01:42	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/18/14 01:42	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/18/14 01:42	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/18/14 01:42	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/18/14 01:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/18/14 01:42	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/18/14 01:42	1634-04-4	
Styrene	ND ug/L		5.0	1		06/18/14 01:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		06/18/14 01:42	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/18/14 01:42	127-18-4	
Toluene	ND ug/L		5.0	1		06/18/14 01:42	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 01:42	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 01:42	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/18/14 01:42	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/18/14 01:42	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/18/14 01:42	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/18/14 01:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/18/14 01:42	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/18/14 01:42	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/18/14 01:42	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/18/14 01:42	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101 %		70-130	1		06/18/14 01:42	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		06/18/14 01:42	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/18/14 01:42	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>2.2</b> ug/L		2.0	1		06/20/14 22:58	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	108 %		50-150	1		06/20/14 22:58	17060-07-0	
Toluene-d8 (S)	97 %		50-150	1		06/20/14 22:58	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	<b>44.1</b> mg/L		5.0	1		06/17/14 16:27		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/18/14 15:21	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: MW-130	Lab ID: 92205236007	Collected: 06/12/14 08:47	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	ND mg/L		1.0	1		06/13/14 06:50	16887-00-6	
Nitrate as N	<b>0.19</b> mg/L		0.10	1		06/13/14 06:50	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/13/14 06:50	14797-65-0	
Sulfate	ND mg/L		1.0	1		06/13/14 06:50	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 19:09	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 19:09	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 19:09	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 19:09	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/25/14 19:09	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	<b>51.6</b> ug/L		5.0	1	06/17/14 14:11	06/18/14 03:57	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/18/14 01:57	67-64-1	
Benzene	ND ug/L		5.0	1		06/18/14 01:57	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/18/14 01:57	75-27-4	
Bromoform	ND ug/L		5.0	1		06/18/14 01:57	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/18/14 01:57	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/18/14 01:57	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/18/14 01:57	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/18/14 01:57	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/18/14 01:57	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/18/14 01:57	75-00-3	
Chloroform	<b>42.4</b> ug/L		5.0	1		06/18/14 01:57	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/18/14 01:57	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/18/14 01:57	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/18/14 01:57	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/18/14 01:57	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/18/14 01:57	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 01:57	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 01:57	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 01:57	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/18/14 01:57	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/18/14 01:57	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/18/14 01:57	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/18/14 01:57	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 01:57	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 01:57	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/18/14 01:57	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 01:57	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 01:57	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/18/14 01:57	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/18/14 01:57	591-78-6	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: MW-130		Lab ID: 92205236007	Collected: 06/12/14 08:47	Received: 06/13/14 07:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/18/14 01:57	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/18/14 01:57	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/18/14 01:57	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/18/14 01:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/18/14 01:57	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/18/14 01:57	1634-04-4	
Styrene	ND ug/L		5.0	1		06/18/14 01:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/18/14 01:57	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/18/14 01:57	127-18-4	
Toluene	ND ug/L		5.0	1		06/18/14 01:57	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 01:57	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 01:57	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/18/14 01:57	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/18/14 01:57	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/18/14 01:57	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/18/14 01:57	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/18/14 01:57	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/18/14 01:57	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/18/14 01:57	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/18/14 01:57	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102 %		70-130	1		06/18/14 01:57	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130	1		06/18/14 01:57	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/18/14 01:57	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	9.2 mg/L		5.0	1		06/17/14 20:24		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/18/14 15:21	18496-25-8	
<b>365.1 Orthophosphate as P</b>		Analytical Method: EPA 365.1						
Orthophosphate as P	ND mg/L		0.050	1		06/24/14 16:49		H5,M1

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: EW-36	Lab ID: 92205236008	Collected: 06/12/14 09:15	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	2.8 mg/L		1.0	1		06/13/14 11:26	16887-00-6	
Nitrate as N	0.10 mg/L		0.10	1		06/13/14 11:26	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/13/14 11:26	14797-65-0	
Sulfate	ND mg/L		1.0	1		06/13/14 11:26	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 19:37	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 19:37	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 19:37	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 19:37	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/25/14 19:37	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	147 ug/L		5.0	1	06/17/14 14:11	06/18/14 04:00	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/18/14 02:13	67-64-1	
Benzene	ND ug/L		5.0	1		06/18/14 02:13	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/18/14 02:13	75-27-4	
Bromoform	ND ug/L		5.0	1		06/18/14 02:13	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/18/14 02:13	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/18/14 02:13	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/18/14 02:13	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/18/14 02:13	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/18/14 02:13	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/18/14 02:13	75-00-3	
Chloroform	ND ug/L		5.0	1		06/18/14 02:13	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/18/14 02:13	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/18/14 02:13	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/18/14 02:13	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/18/14 02:13	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/18/14 02:13	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 02:13	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 02:13	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 02:13	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/18/14 02:13	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/18/14 02:13	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/18/14 02:13	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/18/14 02:13	75-35-4	
cis-1,2-Dichloroethene	18.3 ug/L		5.0	1		06/18/14 02:13	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 02:13	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/18/14 02:13	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 02:13	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 02:13	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/18/14 02:13	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/18/14 02:13	591-78-6	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: EW-36	Lab ID: 92205236008	Collected: 06/12/14 09:15	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/18/14 02:13	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/18/14 02:13	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/18/14 02:13	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/18/14 02:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/18/14 02:13	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/18/14 02:13	1634-04-4	
Styrene	ND ug/L		5.0	1		06/18/14 02:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/18/14 02:13	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/18/14 02:13	127-18-4	
Toluene	ND ug/L		5.0	1		06/18/14 02:13	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 02:13	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 02:13	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/18/14 02:13	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/18/14 02:13	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/18/14 02:13	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/18/14 02:13	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/18/14 02:13	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/18/14 02:13	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/18/14 02:13	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/18/14 02:13	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101 %		70-130	1		06/18/14 02:13	460-00-4	
1,2-Dichloroethane-d4 (S)	101 %		70-130	1		06/18/14 02:13	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/18/14 02:13	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	<b>36.7</b> mg/L		5.0	1		06/17/14 16:38		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/18/14 15:21	18496-25-8	
<b>365.1 Orthophosphate as P</b>		Analytical Method: EPA 365.1						
Orthophosphate as P	<b>0.050</b> mg/L		0.050	1		06/24/14 16:49		H5

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: EW-53	Lab ID: 92205236009	Collected: 06/12/14 10:00	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	9.5 mg/L		1.0	1		06/13/14 11:57	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/13/14 11:57	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/13/14 11:57	14797-65-0	
Sulfate	ND mg/L		1.0	1		06/13/14 11:57	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	14.8 mg/L		1.0	1		06/25/14 20:07	7440-44-0	
Total Organic Carbon	15.2 mg/L		1.0	1		06/25/14 20:07	7440-44-0	
Total Organic Carbon	14.5 mg/L		1.0	1		06/25/14 20:07	7440-44-0	
Total Organic Carbon	14.3 mg/L		1.0	1		06/25/14 20:07	7440-44-0	
Mean Total Organic Carbon	14.7 mg/L		1.0	1		06/25/14 20:07	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	1360 ug/L		5.0	1	06/17/14 14:11	06/18/14 04:03	7439-96-5	
<b>8270 MSSV Semivolatile Organic</b> Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 19:51	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 19:51	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	91 %		21-110	1	06/24/14 15:36	06/26/14 19:51	4165-60-0	H5
2-Fluorobiphenyl (S)	83 %		27-110	1	06/24/14 15:36	06/26/14 19:51	321-60-8	
Terphenyl-d14 (S)	93 %		31-107	1	06/24/14 15:36	06/26/14 19:51	1718-51-0	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/18/14 02:29	67-64-1	
Benzene	ND ug/L		5.0	1		06/18/14 02:29	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/18/14 02:29	75-27-4	
Bromoform	ND ug/L		5.0	1		06/18/14 02:29	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/18/14 02:29	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/18/14 02:29	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/18/14 02:29	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/18/14 02:29	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/18/14 02:29	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/18/14 02:29	75-00-3	
Chloroform	ND ug/L		5.0	1		06/18/14 02:29	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/18/14 02:29	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/18/14 02:29	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/18/14 02:29	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/18/14 02:29	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/18/14 02:29	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 02:29	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 02:29	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 02:29	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/18/14 02:29	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/18/14 02:29	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/18/14 02:29	107-06-2	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: EW-53	Lab ID: 92205236009	Collected: 06/12/14 10:00	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
1,1-Dichloroethene	ND ug/L		5.0	1		06/18/14 02:29	75-35-4	
cis-1,2-Dichloroethene	5.7 ug/L		5.0	1		06/18/14 02:29	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 02:29	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/18/14 02:29	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 02:29	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 02:29	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/18/14 02:29	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/18/14 02:29	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/18/14 02:29	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/18/14 02:29	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/18/14 02:29	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/18/14 02:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/18/14 02:29	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/18/14 02:29	1634-04-4	
Styrene	ND ug/L		5.0	1		06/18/14 02:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/18/14 02:29	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/18/14 02:29	127-18-4	
Toluene	ND ug/L		5.0	1		06/18/14 02:29	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 02:29	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 02:29	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/18/14 02:29	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/18/14 02:29	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/18/14 02:29	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/18/14 02:29	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/18/14 02:29	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/18/14 02:29	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/18/14 02:29	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/18/14 02:29	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	103 %		70-130	1		06/18/14 02:29	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130	1		06/18/14 02:29	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/18/14 02:29	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		06/20/14 23:20	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	105 %		50-150	1		06/20/14 23:20	17060-07-0	
Toluene-d8 (S)	98 %		50-150	1		06/20/14 23:20	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	66.3 mg/L		5.0	1		06/17/14 17:04		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/19/14 15:03	18496-25-8	

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### ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

<b>Sample: EW-53</b>		<b>Lab ID: 92205236009</b>	Collected: 06/12/14 10:00	Received: 06/13/14 07:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>365.1 Orthophosphate as P</b>		Analytical Method: EPA 365.1						
Orthophosphate as P	<b>0.053</b>	mg/L	0.050	1		06/24/14 16:49		H5

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: DW-5	Lab ID: 92205236010	Collected: 06/12/14 18:00	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	9.6 mg/L		1.0	1		06/13/14 12:27	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/13/14 12:27	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/13/14 12:27	14797-65-0	
Sulfate	ND mg/L		1.0	1		06/13/14 12:27	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	14.9 mg/L		1.0	1		06/25/14 20:37	7440-44-0	
Total Organic Carbon	15.3 mg/L		1.0	1		06/25/14 20:37	7440-44-0	
Total Organic Carbon	15.1 mg/L		1.0	1		06/25/14 20:37	7440-44-0	
Total Organic Carbon	15.4 mg/L		1.0	1		06/25/14 20:37	7440-44-0	
Mean Total Organic Carbon	15.2 mg/L		1.0	1		06/25/14 20:37	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	1350 ug/L		5.0	1	06/17/14 14:11	06/18/14 04:07	7439-96-5	
<b>8270 MSSV Semivolatile Organic</b> Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 20:20	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 20:20	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	84 %		21-110	1	06/24/14 15:36	06/26/14 20:20	4165-60-0	H5
2-Fluorobiphenyl (S)	78 %		27-110	1	06/24/14 15:36	06/26/14 20:20	321-60-8	
Terphenyl-d14 (S)	91 %		31-107	1	06/24/14 15:36	06/26/14 20:20	1718-51-0	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/18/14 02:44	67-64-1	
Benzene	ND ug/L		5.0	1		06/18/14 02:44	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/18/14 02:44	75-27-4	
Bromoform	ND ug/L		5.0	1		06/18/14 02:44	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/18/14 02:44	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/18/14 02:44	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/18/14 02:44	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/18/14 02:44	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/18/14 02:44	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/18/14 02:44	75-00-3	
Chloroform	ND ug/L		5.0	1		06/18/14 02:44	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/18/14 02:44	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/18/14 02:44	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/18/14 02:44	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/18/14 02:44	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/18/14 02:44	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 02:44	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 02:44	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 02:44	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/18/14 02:44	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/18/14 02:44	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/18/14 02:44	107-06-2	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: DW-5	Lab ID: 92205236010	Collected: 06/12/14 18:00	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
1,1-Dichloroethene	ND ug/L		5.0	1		06/18/14 02:44	75-35-4	
cis-1,2-Dichloroethene	<b>5.9</b> ug/L		5.0	1		06/18/14 02:44	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 02:44	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/18/14 02:44	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 02:44	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 02:44	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/18/14 02:44	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/18/14 02:44	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/18/14 02:44	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/18/14 02:44	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/18/14 02:44	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/18/14 02:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/18/14 02:44	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/18/14 02:44	1634-04-4	
Styrene	ND ug/L		5.0	1		06/18/14 02:44	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/18/14 02:44	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/18/14 02:44	127-18-4	
Toluene	ND ug/L		5.0	1		06/18/14 02:44	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 02:44	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 02:44	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/18/14 02:44	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/18/14 02:44	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/18/14 02:44	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/18/14 02:44	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/18/14 02:44	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/18/14 02:44	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/18/14 02:44	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/18/14 02:44	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102 %		70-130	1		06/18/14 02:44	460-00-4	
1,2-Dichloroethane-d4 (S)	102 %		70-130	1		06/18/14 02:44	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/18/14 02:44	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>2.7</b> ug/L		2.0	1		06/22/14 15:09	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	105 %		50-150	1		06/22/14 15:09	17060-07-0	
Toluene-d8 (S)	96 %		50-150	1		06/22/14 15:09	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	<b>64.1</b> mg/L		5.0	1		06/17/14 16:49		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/19/14 15:03	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: DW-5	Lab ID: 92205236010	Collected: 06/12/14 18:00	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>365.1 Orthophosphate as P</b>		Analytical Method: EPA 365.1						
Orthophosphate as P	<b>0.091</b>	mg/L	0.050	1		06/24/14 16:49		H5

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: EW-41		Lab ID: 92205236011	Collected: 06/12/14 10:30	Received: 06/13/14 07:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	2.9 mg/L		1.0	1		06/13/14 12:58	16887-00-6	
Nitrate as N	0.14 mg/L		0.10	1		06/13/14 12:58	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/13/14 12:58	14797-65-0	
Sulfate	ND mg/L		1.0	1		06/13/14 12:58	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 21:04	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 21:04	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 21:04	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 21:04	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/25/14 21:04	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	445 ug/L		5.0	1	06/17/14 14:11	06/18/14 04:10	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/18/14 03:00	67-64-1	
Benzene	ND ug/L		5.0	1		06/18/14 03:00	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/18/14 03:00	75-27-4	
Bromoform	ND ug/L		5.0	1		06/18/14 03:00	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/18/14 03:00	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/18/14 03:00	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/18/14 03:00	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/18/14 03:00	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/18/14 03:00	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/18/14 03:00	75-00-3	
Chloroform	21.0 ug/L		5.0	1		06/18/14 03:00	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/18/14 03:00	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/18/14 03:00	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/18/14 03:00	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/18/14 03:00	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/18/14 03:00	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 03:00	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 03:00	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 03:00	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/18/14 03:00	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/18/14 03:00	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/18/14 03:00	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/18/14 03:00	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 03:00	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 03:00	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/18/14 03:00	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 03:00	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 03:00	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/18/14 03:00	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/18/14 03:00	591-78-6	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: EW-41	Lab ID: 92205236011	Collected: 06/12/14 10:30	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/18/14 03:00	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/18/14 03:00	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/18/14 03:00	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/18/14 03:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/18/14 03:00	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/18/14 03:00	1634-04-4	
Styrene	ND ug/L		5.0	1		06/18/14 03:00	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/18/14 03:00	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/18/14 03:00	127-18-4	
Toluene	ND ug/L		5.0	1		06/18/14 03:00	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 03:00	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 03:00	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/18/14 03:00	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/18/14 03:00	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/18/14 03:00	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/18/14 03:00	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/18/14 03:00	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/18/14 03:00	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/18/14 03:00	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/18/14 03:00	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	104 %		70-130	1		06/18/14 03:00	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/18/14 03:00	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		06/18/14 03:00	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		06/22/14 15:30	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	110 %		50-150	1		06/22/14 15:30	17060-07-0	
Toluene-d8 (S)	96 %		50-150	1		06/22/14 15:30	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	22.6 mg/L		5.0	1		06/18/14 11:53		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/19/14 15:03	18496-25-8	
<b>365.1 Orthophosphate as P</b>		Analytical Method: EPA 365.1						
Orthophosphate as P	0.054 mg/L		0.050	1		06/24/14 16:49		H5

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: RW-65	Lab ID: 92205236012	Collected: 06/12/14 10:45	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b> Analytical Method: EPA 9056A								
Chloride	12.0 mg/L		1.0	1		06/13/14 13:29	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/13/14 13:29	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/13/14 13:29	14797-65-0	
Sulfate	8.3 mg/L		1.0	1		06/13/14 13:29	14808-79-8	
<b>Total Organic Carbon, GWD</b> Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 23:12	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 23:12	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 23:12	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/25/14 23:12	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/25/14 23:12	7440-44-0	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	1430 ug/L		5.0	1	06/17/14 14:11	06/18/14 04:13	7439-96-5	
<b>8270 MSSV Semivolatile Organic</b> Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 20:48	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 15:36	06/26/14 20:48	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	89 %		21-110	1	06/24/14 15:36	06/26/14 20:48	4165-60-0	H5
2-Fluorobiphenyl (S)	84 %		27-110	1	06/24/14 15:36	06/26/14 20:48	321-60-8	
Terphenyl-d14 (S)	97 %		31-107	1	06/24/14 15:36	06/26/14 20:48	1718-51-0	
<b>8260 MSV</b> Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/18/14 03:15	67-64-1	
Benzene	ND ug/L		5.0	1		06/18/14 03:15	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/18/14 03:15	75-27-4	
Bromoform	ND ug/L		5.0	1		06/18/14 03:15	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/18/14 03:15	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/18/14 03:15	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/18/14 03:15	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/18/14 03:15	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/18/14 03:15	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/18/14 03:15	75-00-3	
Chloroform	ND ug/L		5.0	1		06/18/14 03:15	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/18/14 03:15	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/18/14 03:15	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/18/14 03:15	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/18/14 03:15	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/18/14 03:15	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 03:15	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 03:15	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 03:15	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/18/14 03:15	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/18/14 03:15	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/18/14 03:15	107-06-2	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: RW-65	Lab ID: 92205236012	Collected: 06/12/14 10:45	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
1,1-Dichloroethene	ND ug/L		5.0	1		06/18/14 03:15	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 03:15	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 03:15	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/18/14 03:15	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 03:15	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 03:15	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/18/14 03:15	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/18/14 03:15	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/18/14 03:15	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/18/14 03:15	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/18/14 03:15	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/18/14 03:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/18/14 03:15	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/18/14 03:15	1634-04-4	
Styrene	ND ug/L		5.0	1		06/18/14 03:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/18/14 03:15	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/18/14 03:15	127-18-4	
Toluene	ND ug/L		5.0	1		06/18/14 03:15	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 03:15	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 03:15	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/18/14 03:15	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/18/14 03:15	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/18/14 03:15	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/18/14 03:15	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/18/14 03:15	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/18/14 03:15	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/18/14 03:15	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/18/14 03:15	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102 %		70-130	1		06/18/14 03:15	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/18/14 03:15	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/18/14 03:15	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		06/22/14 15:51	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	112 %		50-150	1		06/22/14 15:51	17060-07-0	
Toluene-d8 (S)	96 %		50-150	1		06/22/14 15:51	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	<b>98.8</b> mg/L		5.0	1		06/18/14 12:02		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/19/14 15:03	18496-25-8	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: <b>RW-65</b>	Lab ID: <b>92205236012</b>	Collected: 06/12/14 10:45	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>365.1 Orthophosphate as P</b>		Analytical Method: EPA 365.1						
Orthophosphate as P	<b>0.14</b>	mg/L	0.050	1		06/24/14 16:49		H5

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: EW-39	Lab ID: 92205236013	Collected: 06/12/14 11:11	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	12.9 mg/L		1.0	1		06/13/14 13:59	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/13/14 13:59	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/13/14 13:59	14797-65-0	
Sulfate	ND mg/L		1.0	1		06/13/14 13:59	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	5.6 mg/L		1.0	1		06/26/14 00:45	7440-44-0	
Total Organic Carbon	5.9 mg/L		1.0	1		06/26/14 00:45	7440-44-0	
Total Organic Carbon	5.9 mg/L		1.0	1		06/26/14 00:45	7440-44-0	
Total Organic Carbon	5.7 mg/L		1.0	1		06/26/14 00:45	7440-44-0	
Mean Total Organic Carbon	5.8 mg/L		1.0	1		06/26/14 00:45	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	1250 ug/L		5.0	1	06/17/14 14:11	06/18/14 04:16	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/18/14 03:31	67-64-1	
Benzene	ND ug/L		5.0	1		06/18/14 03:31	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/18/14 03:31	75-27-4	
Bromoform	ND ug/L		5.0	1		06/18/14 03:31	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/18/14 03:31	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/18/14 03:31	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/18/14 03:31	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/18/14 03:31	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/18/14 03:31	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/18/14 03:31	75-00-3	
Chloroform	ND ug/L		5.0	1		06/18/14 03:31	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/18/14 03:31	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/18/14 03:31	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/18/14 03:31	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/18/14 03:31	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/18/14 03:31	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 03:31	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 03:31	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 03:31	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/18/14 03:31	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/18/14 03:31	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/18/14 03:31	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/18/14 03:31	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 03:31	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 03:31	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/18/14 03:31	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 03:31	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 03:31	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/18/14 03:31	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/18/14 03:31	591-78-6	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: <b>EW-39</b>		Lab ID: <b>92205236013</b>	Collected: 06/12/14 11:11	Received: 06/13/14 07:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/18/14 03:31	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/18/14 03:31	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/18/14 03:31	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/18/14 03:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/18/14 03:31	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/18/14 03:31	1634-04-4	
Styrene	ND ug/L		5.0	1		06/18/14 03:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/18/14 03:31	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/18/14 03:31	127-18-4	
Toluene	ND ug/L		5.0	1		06/18/14 03:31	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 03:31	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 03:31	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/18/14 03:31	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/18/14 03:31	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/18/14 03:31	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/18/14 03:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/18/14 03:31	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/18/14 03:31	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/18/14 03:31	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/18/14 03:31	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100 %		70-130	1		06/18/14 03:31	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/18/14 03:31	17060-07-0	
Toluene-d8 (S)	99 %		70-130	1		06/18/14 03:31	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	<b>705</b> mg/L		5.0	1		06/18/14 12:12		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/19/14 15:03	18496-25-8	
<b>365.1 Orthophosphate as P</b>		Analytical Method: EPA 365.1						
Orthophosphate as P	<b>0.20</b> mg/L		0.050	1		06/24/14 16:49		H5

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG  
Pace Project No.: 92205236

Sample: RW-47	Lab ID: 92205236014	Collected: 06/12/14 12:35	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	2.6 mg/L		1.0	1		06/13/14 14:30	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/13/14 14:30	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/13/14 14:30	14797-65-0	
Sulfate	ND mg/L		1.0	1		06/13/14 14:30	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	1.5 mg/L		1.0	1		06/26/14 01:13	7440-44-0	
Total Organic Carbon	1.3 mg/L		1.0	1		06/26/14 01:13	7440-44-0	
Total Organic Carbon	1.3 mg/L		1.0	1		06/26/14 01:13	7440-44-0	
Total Organic Carbon	1.1 mg/L		1.0	1		06/26/14 01:13	7440-44-0	
Mean Total Organic Carbon	1.3 mg/L		1.0	1		06/26/14 01:13	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	145 ug/L		5.0	1	06/17/14 14:11	06/18/14 04:19	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/18/14 03:47	67-64-1	
Benzene	ND ug/L		5.0	1		06/18/14 03:47	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/18/14 03:47	75-27-4	
Bromoform	ND ug/L		5.0	1		06/18/14 03:47	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/18/14 03:47	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/18/14 03:47	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/18/14 03:47	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/18/14 03:47	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/18/14 03:47	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/18/14 03:47	75-00-3	
Chloroform	ND ug/L		5.0	1		06/18/14 03:47	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/18/14 03:47	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/18/14 03:47	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/18/14 03:47	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/18/14 03:47	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/18/14 03:47	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 03:47	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 03:47	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 03:47	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/18/14 03:47	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/18/14 03:47	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/18/14 03:47	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/18/14 03:47	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 03:47	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 03:47	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/18/14 03:47	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 03:47	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 03:47	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/18/14 03:47	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/18/14 03:47	591-78-6	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: RW-47		Lab ID: 92205236014	Collected: 06/12/14 12:35	Received: 06/13/14 07:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/18/14 03:47	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/18/14 03:47	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/18/14 03:47	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/18/14 03:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/18/14 03:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/18/14 03:47	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/18/14 03:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/18/14 03:47	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/18/14 03:47	127-18-4	
Toluene	ND	ug/L	5.0	1		06/18/14 03:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/18/14 03:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/18/14 03:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/18/14 03:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/18/14 03:47	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/18/14 03:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/18/14 03:47	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/18/14 03:47	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/18/14 03:47	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/18/14 03:47	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/18/14 03:47	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	103	%	70-130	1		06/18/14 03:47	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		06/18/14 03:47	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/18/14 03:47	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	510	mg/L	5.0	1		06/18/14 12:46		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND	mg/L	0.10	1		06/19/14 15:03	18496-25-8	
<b>365.1 Orthophosphate as P</b>		Analytical Method: EPA 365.1						
Orthophosphate as P	0.15	mg/L	0.050	1		06/24/14 16:49		H5

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG  
Pace Project No.: 92205236

Sample: EW-31	Lab ID: 92205236015	Collected: 06/12/14 12:35	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	7.7 mg/L		1.0	1		06/13/14 15:00	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/13/14 15:00	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/13/14 15:00	14797-65-0	
Sulfate	ND mg/L		1.0	1		06/13/14 15:00	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 01:41	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 01:41	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 01:41	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 01:41	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/26/14 01:41	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	1540 ug/L		5.0	1	06/17/14 14:11	06/18/14 04:22	7439-96-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	12.5 ug/L		2.0	1		06/22/14 16:12	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	109 %		50-150	1		06/22/14 16:12	17060-07-0	
Toluene-d8 (S)	96 %		50-150	1		06/22/14 16:12	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	114 mg/L		5.0	1		06/18/14 12:57		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/19/14 15:03	18496-25-8	
<b>365.1 Orthophosphate as P</b>		Analytical Method: EPA 365.1						
Orthophosphate as P	0.073 mg/L		0.050	1		06/24/14 16:49		H5

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: RW-29	Lab ID: 92205236016	Collected: 06/12/14 12:40	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>								
Analytical Method: EPA 9056A								
Chloride	1.2 mg/L		1.0	1		06/13/14 15:31	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/13/14 15:31	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/13/14 15:31	14797-65-0	
Sulfate	10.3 mg/L		1.0	1		06/13/14 15:31	14808-79-8	
<b>Total Organic Carbon, GWD</b>								
Analytical Method: EPA 9060A								
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 02:08	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 02:08	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 02:08	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 02:08	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/26/14 02:08	7440-44-0	
<b>6010 MET ICP, Dissolved</b>								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	11.2 ug/L		5.0	1	06/17/14 14:11	06/18/14 04:25	7439-96-5	
<b>8270 MSSV Semivolatile Organic</b>								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 15:36	06/27/14 12:04	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 15:36	06/27/14 12:04	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	83 %		21-110	1	06/24/14 15:36	06/27/14 12:04	4165-60-0	H5
2-Fluorobiphenyl (S)	78 %		27-110	1	06/24/14 15:36	06/27/14 12:04	321-60-8	
Terphenyl-d14 (S)	70 %		31-107	1	06/24/14 15:36	06/27/14 12:04	1718-51-0	
<b>8260 MSV</b>								
Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	1		06/18/14 04:02	67-64-1	
Benzene	ND ug/L		5.0	1		06/18/14 04:02	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/18/14 04:02	75-27-4	
Bromoform	ND ug/L		5.0	1		06/18/14 04:02	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/18/14 04:02	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/18/14 04:02	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/18/14 04:02	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/18/14 04:02	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/18/14 04:02	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/18/14 04:02	75-00-3	
Chloroform	ND ug/L		5.0	1		06/18/14 04:02	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/18/14 04:02	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/18/14 04:02	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/18/14 04:02	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/18/14 04:02	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/18/14 04:02	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 04:02	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 04:02	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 04:02	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/18/14 04:02	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/18/14 04:02	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/18/14 04:02	107-06-2	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: RW-29	Lab ID: 92205236016	Collected: 06/12/14 12:40	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
1,1-Dichloroethene	ND ug/L		5.0	1		06/18/14 04:02	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 04:02	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 04:02	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/18/14 04:02	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 04:02	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 04:02	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/18/14 04:02	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/18/14 04:02	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/18/14 04:02	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/18/14 04:02	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/18/14 04:02	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/18/14 04:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/18/14 04:02	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/18/14 04:02	1634-04-4	
Styrene	ND ug/L		5.0	1		06/18/14 04:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/18/14 04:02	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/18/14 04:02	127-18-4	
Toluene	ND ug/L		5.0	1		06/18/14 04:02	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 04:02	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 04:02	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/18/14 04:02	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/18/14 04:02	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/18/14 04:02	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/18/14 04:02	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/18/14 04:02	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/18/14 04:02	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/18/14 04:02	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/18/14 04:02	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101 %		70-130	1		06/18/14 04:02	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/18/14 04:02	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/18/14 04:02	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		06/22/14 16:33	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	105 %		50-150	1		06/22/14 16:33	17060-07-0	
Toluene-d8 (S)	95 %		50-150	1		06/22/14 16:33	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	<b>63.1</b> mg/L		5.0	1		06/18/14 13:09		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/19/14 15:03	18496-25-8	

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### ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

<b>Sample: RW-29</b>		<b>Lab ID: 92205236016</b>	Collected: 06/12/14 12:40	Received: 06/13/14 07:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>365.1 Orthophosphate as P</b>		Analytical Method: EPA 365.1						
Orthophosphate as P	<b>0.15</b>	mg/L	0.050	1		06/24/14 16:49		H5

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: DW-6	Lab ID: 92205236017	Collected: 06/12/14 20:00	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	1.2 mg/L		1.0	1		06/13/14 16:02	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/13/14 16:02	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/13/14 16:02	14797-65-0	
Sulfate	10.3 mg/L		1.0	1		06/13/14 16:02	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 02:36	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 02:36	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 02:36	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 02:36	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/26/14 02:36	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	10.7 ug/L		5.0	1	06/17/14 14:11	06/18/14 04:38	7439-96-5	
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 15:36	06/27/14 12:33	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 15:36	06/27/14 12:33	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	80 %		21-110	1	06/24/14 15:36	06/27/14 12:33	4165-60-0	H5
2-Fluorobiphenyl (S)	84 %		27-110	1	06/24/14 15:36	06/27/14 12:33	321-60-8	
Terphenyl-d14 (S)	81 %		31-107	1	06/24/14 15:36	06/27/14 12:33	1718-51-0	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/18/14 04:18	67-64-1	
Benzene	ND ug/L		5.0	1		06/18/14 04:18	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/18/14 04:18	75-27-4	
Bromoform	ND ug/L		5.0	1		06/18/14 04:18	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/18/14 04:18	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/18/14 04:18	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/18/14 04:18	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/18/14 04:18	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/18/14 04:18	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/18/14 04:18	75-00-3	
Chloroform	ND ug/L		5.0	1		06/18/14 04:18	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/18/14 04:18	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/18/14 04:18	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/18/14 04:18	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/18/14 04:18	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/18/14 04:18	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 04:18	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 04:18	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 04:18	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/18/14 04:18	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/18/14 04:18	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/18/14 04:18	107-06-2	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: DW-6	Lab ID: 92205236017	Collected: 06/12/14 20:00	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
1,1-Dichloroethene	ND ug/L		5.0	1		06/18/14 04:18	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 04:18	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 04:18	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/18/14 04:18	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 04:18	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 04:18	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/18/14 04:18	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/18/14 04:18	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/18/14 04:18	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/18/14 04:18	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/18/14 04:18	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/18/14 04:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/18/14 04:18	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/18/14 04:18	1634-04-4	
Styrene	ND ug/L		5.0	1		06/18/14 04:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/18/14 04:18	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/18/14 04:18	127-18-4	
Toluene	ND ug/L		5.0	1		06/18/14 04:18	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 04:18	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 04:18	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/18/14 04:18	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/18/14 04:18	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/18/14 04:18	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/18/14 04:18	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/18/14 04:18	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/18/14 04:18	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/18/14 04:18	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/18/14 04:18	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101 %		70-130	1		06/18/14 04:18	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/18/14 04:18	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/18/14 04:18	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		06/22/14 16:55	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	112 %		50-150	1		06/22/14 16:55	17060-07-0	
Toluene-d8 (S)	95 %		50-150	1		06/22/14 16:55	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	<b>63.4</b> mg/L		5.0	1		06/18/14 13:19		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/19/14 15:03	18496-25-8	

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### ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

<b>Sample: DW-6</b>		<b>Lab ID: 92205236017</b>	Collected: 06/12/14 20:00	Received: 06/13/14 07:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>365.1 Orthophosphate as P</b>		Analytical Method: EPA 365.1						
Orthophosphate as P	<b>0.16</b>	mg/L	0.050	1		06/24/14 16:49		H5

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: MW-46	Lab ID: 92205236018	Collected: 06/12/14 13:30	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	14.3 mg/L		1.0	1		06/13/14 17:34	16887-00-6	
Nitrate as N	1.8 mg/L		0.10	1		06/13/14 17:34	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/13/14 17:34	14797-65-0	
Sulfate	27.4 mg/L		1.0	1		06/13/14 17:34	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 03:04	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 03:04	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 03:04	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 03:04	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/26/14 03:04	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	56.1 ug/L		5.0	1	06/17/14 14:11	06/18/14 04:41	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/18/14 04:33	67-64-1	
Benzene	ND ug/L		5.0	1		06/18/14 04:33	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/18/14 04:33	75-27-4	
Bromoform	ND ug/L		5.0	1		06/18/14 04:33	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/18/14 04:33	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/18/14 04:33	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/18/14 04:33	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/18/14 04:33	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/18/14 04:33	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/18/14 04:33	75-00-3	
Chloroform	ND ug/L		5.0	1		06/18/14 04:33	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/18/14 04:33	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/18/14 04:33	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/18/14 04:33	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/18/14 04:33	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/18/14 04:33	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 04:33	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 04:33	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 04:33	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/18/14 04:33	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/18/14 04:33	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/18/14 04:33	107-06-2	
1,1-Dichloroethene	13.7 ug/L		5.0	1		06/18/14 04:33	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 04:33	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 04:33	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/18/14 04:33	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 04:33	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 04:33	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/18/14 04:33	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/18/14 04:33	591-78-6	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: MW-46	Lab ID: 92205236018	Collected: 06/12/14 13:30	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/18/14 04:33	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/18/14 04:33	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/18/14 04:33	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/18/14 04:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/18/14 04:33	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/18/14 04:33	1634-04-4	
Styrene	ND ug/L		5.0	1		06/18/14 04:33	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/18/14 04:33	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/18/14 04:33	127-18-4	
Toluene	ND ug/L		5.0	1		06/18/14 04:33	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 04:33	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 04:33	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/18/14 04:33	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/18/14 04:33	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/18/14 04:33	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/18/14 04:33	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/18/14 04:33	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/18/14 04:33	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/18/14 04:33	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/18/14 04:33	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	103 %		70-130	1		06/18/14 04:33	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/18/14 04:33	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/18/14 04:33	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	6.9 mg/L		5.0	1		06/18/14 14:16		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/19/14 15:03	18496-25-8	
<b>365.1 Orthophosphate as P</b>		Analytical Method: EPA 365.1						
Orthophosphate as P	0.081 mg/L		0.050	1		06/24/14 16:49		H5

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: EW-30	Lab ID: 92205236019	Collected: 06/12/14 13:35	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	6.6 mg/L		1.0	1		06/13/14 18:04	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/13/14 18:04	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/13/14 18:04	14797-65-0	
Sulfate	ND mg/L		1.0	1		06/13/14 18:04	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 03:32	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 03:32	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 03:32	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 03:32	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/26/14 03:32	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	1740 ug/L		5.0	1	06/17/14 14:11	06/18/14 04:44	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/18/14 04:49	67-64-1	
Benzene	ND ug/L		5.0	1		06/18/14 04:49	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/18/14 04:49	75-27-4	
Bromoform	ND ug/L		5.0	1		06/18/14 04:49	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/18/14 04:49	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/18/14 04:49	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/18/14 04:49	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/18/14 04:49	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/18/14 04:49	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/18/14 04:49	75-00-3	
Chloroform	92.5 ug/L		5.0	1		06/18/14 04:49	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/18/14 04:49	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/18/14 04:49	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/18/14 04:49	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/18/14 04:49	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/18/14 04:49	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 04:49	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 04:49	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 04:49	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/18/14 04:49	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/18/14 04:49	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/18/14 04:49	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/18/14 04:49	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 04:49	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 04:49	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/18/14 04:49	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 04:49	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 04:49	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/18/14 04:49	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/18/14 04:49	591-78-6	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: <b>EW-30</b>	Lab ID: <b>92205236019</b>	Collected: 06/12/14 13:35	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/18/14 04:49	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/18/14 04:49	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/18/14 04:49	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/18/14 04:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/18/14 04:49	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/18/14 04:49	1634-04-4	
Styrene	ND ug/L		5.0	1		06/18/14 04:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/18/14 04:49	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/18/14 04:49	127-18-4	
Toluene	ND ug/L		5.0	1		06/18/14 04:49	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 04:49	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 04:49	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/18/14 04:49	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/18/14 04:49	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/18/14 04:49	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/18/14 04:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/18/14 04:49	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/18/14 04:49	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/18/14 04:49	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/18/14 04:49	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102 %		70-130	1		06/18/14 04:49	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		06/18/14 04:49	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/18/14 04:49	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	<b>56.2</b> mg/L		5.0	1		06/18/14 14:24		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/19/14 15:03	18496-25-8	
<b>365.1 Orthophosphate as P</b>		Analytical Method: EPA 365.1						
Orthophosphate as P	<b>0.050</b> mg/L		0.050	1		06/24/14 16:49		H5

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: MW-103	Lab ID: 92205236020	Collected: 06/12/14 14:40	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	2.2 mg/L		1.0	1		06/13/14 18:35	16887-00-6	
Nitrate as N	2.4 mg/L		0.10	1		06/13/14 18:35	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/13/14 18:35	14797-65-0	
Sulfate	ND mg/L		1.0	1		06/13/14 18:35	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 04:00	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 04:00	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 04:00	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 04:00	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/26/14 04:00	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	41.3 ug/L		5.0	1	06/17/14 14:11	06/18/14 04:47	7439-96-5	
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 15:36	06/27/14 13:01	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 15:36	06/27/14 13:01	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	73 %		21-110	1	06/24/14 15:36	06/27/14 13:01	4165-60-0	H5
2-Fluorobiphenyl (S)	75 %		27-110	1	06/24/14 15:36	06/27/14 13:01	321-60-8	
Terphenyl-d14 (S)	75 %		31-107	1	06/24/14 15:36	06/27/14 13:01	1718-51-0	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/18/14 05:05	67-64-1	
Benzene	ND ug/L		5.0	1		06/18/14 05:05	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/18/14 05:05	75-27-4	
Bromoform	ND ug/L		5.0	1		06/18/14 05:05	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/18/14 05:05	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/18/14 05:05	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/18/14 05:05	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/18/14 05:05	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/18/14 05:05	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/18/14 05:05	75-00-3	
Chloroform	ND ug/L		5.0	1		06/18/14 05:05	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/18/14 05:05	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/18/14 05:05	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/18/14 05:05	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/18/14 05:05	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/18/14 05:05	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 05:05	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 05:05	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 05:05	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/18/14 05:05	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/18/14 05:05	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/18/14 05:05	107-06-2	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: MW-103	Lab ID: 92205236020	Collected: 06/12/14 14:40	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
1,1-Dichloroethene	ND ug/L		5.0	1		06/18/14 05:05	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 05:05	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 05:05	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/18/14 05:05	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 05:05	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 05:05	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/18/14 05:05	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/18/14 05:05	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/18/14 05:05	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/18/14 05:05	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/18/14 05:05	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/18/14 05:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/18/14 05:05	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/18/14 05:05	1634-04-4	
Styrene	ND ug/L		5.0	1		06/18/14 05:05	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/18/14 05:05	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/18/14 05:05	127-18-4	
Toluene	ND ug/L		5.0	1		06/18/14 05:05	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 05:05	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 05:05	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/18/14 05:05	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/18/14 05:05	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/18/14 05:05	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/18/14 05:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/18/14 05:05	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/18/14 05:05	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/18/14 05:05	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/18/14 05:05	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	103 %		70-130	1		06/18/14 05:05	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		06/18/14 05:05	17060-07-0	
Toluene-d8 (S)	102 %		70-130	1		06/18/14 05:05	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		06/22/14 17:16	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	107 %		50-150	1		06/22/14 17:16	17060-07-0	
Toluene-d8 (S)	95 %		50-150	1		06/22/14 17:16	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	ND mg/L		5.0	1		06/18/14 14:35		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/19/14 15:03	18496-25-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: MW-103	Lab ID: 92205236020	Collected: 06/12/14 14:40	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>365.1 Orthophosphate as P</b>		Analytical Method: EPA 365.1						
Orthophosphate as P	ND	mg/L	0.050	1		06/24/14 16:49		H5

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: RW-48	Lab ID: 92205236021	Collected: 06/12/14 14:44	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	1.8 mg/L		1.0	1		06/13/14 19:05	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/13/14 19:05	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/13/14 19:05	14797-65-0	
Sulfate	ND mg/L		1.0	1		06/13/14 19:05	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 04:28	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 04:28	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 04:28	7440-44-0	
Total Organic Carbon	ND mg/L		1.0	1		06/26/14 04:28	7440-44-0	
Mean Total Organic Carbon	ND mg/L		1.0	1		06/26/14 04:28	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	836 ug/L		5.0	1	06/17/14 14:11	06/18/14 04:50	7439-96-5	
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/24/14 15:36	06/27/14 13:30	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/24/14 15:36	06/27/14 13:30	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	82 %		21-110	1	06/24/14 15:36	06/27/14 13:30	4165-60-0	H5
2-Fluorobiphenyl (S)	80 %		27-110	1	06/24/14 15:36	06/27/14 13:30	321-60-8	
Terphenyl-d14 (S)	95 %		31-107	1	06/24/14 15:36	06/27/14 13:30	1718-51-0	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/18/14 05:20	67-64-1	
Benzene	ND ug/L		5.0	1		06/18/14 05:20	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/18/14 05:20	75-27-4	
Bromoform	ND ug/L		5.0	1		06/18/14 05:20	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/18/14 05:20	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/18/14 05:20	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/18/14 05:20	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/18/14 05:20	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/18/14 05:20	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/18/14 05:20	75-00-3	
Chloroform	ND ug/L		5.0	1		06/18/14 05:20	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/18/14 05:20	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/18/14 05:20	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/18/14 05:20	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/18/14 05:20	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/18/14 05:20	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 05:20	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 05:20	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 05:20	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/18/14 05:20	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/18/14 05:20	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/18/14 05:20	107-06-2	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: RW-48	Lab ID: 92205236021	Collected: 06/12/14 14:44	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
1,1-Dichloroethene	ND ug/L		5.0	1		06/18/14 05:20	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 05:20	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 05:20	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/18/14 05:20	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 05:20	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 05:20	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/18/14 05:20	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/18/14 05:20	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/18/14 05:20	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/18/14 05:20	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/18/14 05:20	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/18/14 05:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/18/14 05:20	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/18/14 05:20	1634-04-4	
Styrene	ND ug/L		5.0	1		06/18/14 05:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/18/14 05:20	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/18/14 05:20	127-18-4	
Toluene	ND ug/L		5.0	1		06/18/14 05:20	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 05:20	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 05:20	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/18/14 05:20	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/18/14 05:20	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/18/14 05:20	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/18/14 05:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/18/14 05:20	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/18/14 05:20	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/18/14 05:20	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/18/14 05:20	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102 %		70-130	1		06/18/14 05:20	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/18/14 05:20	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/18/14 05:20	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		06/22/14 17:37	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	112 %		50-150	1		06/22/14 17:37	17060-07-0	
Toluene-d8 (S)	94 %		50-150	1		06/22/14 17:37	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	105 mg/L		5.0	1		06/18/14 14:44		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/19/14 15:03	18496-25-8	

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### ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: RW-48		Lab ID: 92205236021	Collected: 06/12/14 14:44	Received: 06/13/14 07:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>365.1 Orthophosphate as P</b>		Analytical Method: EPA 365.1						
Orthophosphate as P	ND	mg/L	0.050	1		06/24/14 16:49		H5

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: EW-37	Lab ID: 92205236022	Collected: 06/12/14 14:50	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	10.5 mg/L		1.0	1		06/13/14 19:36	16887-00-6	
Nitrate as N	ND mg/L		0.10	1		06/13/14 19:36	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/13/14 19:36	14797-65-0	
Sulfate	ND mg/L		1.0	1		06/13/14 19:36	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	43.4 mg/L		1.0	1		06/26/14 06:40	7440-44-0	
Total Organic Carbon	44.0 mg/L		1.0	1		06/26/14 06:40	7440-44-0	
Total Organic Carbon	42.9 mg/L		1.0	1		06/26/14 06:40	7440-44-0	
Total Organic Carbon	42.9 mg/L		1.0	1		06/26/14 06:40	7440-44-0	
Mean Total Organic Carbon	43.3 mg/L		1.0	1		06/26/14 06:40	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	6430 ug/L		5.0	1	06/17/14 14:34	06/18/14 01:25	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/18/14 05:36	67-64-1	
Benzene	ND ug/L		5.0	1		06/18/14 05:36	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/18/14 05:36	75-27-4	
Bromoform	ND ug/L		5.0	1		06/18/14 05:36	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/18/14 05:36	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/18/14 05:36	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/18/14 05:36	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/18/14 05:36	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/18/14 05:36	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/18/14 05:36	75-00-3	
Chloroform	ND ug/L		5.0	1		06/18/14 05:36	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/18/14 05:36	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/18/14 05:36	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/18/14 05:36	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/18/14 05:36	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/18/14 05:36	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 05:36	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 05:36	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 05:36	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/18/14 05:36	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/18/14 05:36	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/18/14 05:36	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/18/14 05:36	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 05:36	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 05:36	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/18/14 05:36	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 05:36	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 05:36	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/18/14 05:36	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/18/14 05:36	591-78-6	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: EW-37	Lab ID: 92205236022	Collected: 06/12/14 14:50	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		06/18/14 05:36	98-82-8	
Methyl acetate	ND ug/L		10.0	1		06/18/14 05:36	79-20-9	
Methylcyclohexane	ND ug/L		10.0	1		06/18/14 05:36	108-87-2	
Methylene Chloride	ND ug/L		5.0	1		06/18/14 05:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/18/14 05:36	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	1		06/18/14 05:36	1634-04-4	
Styrene	ND ug/L		5.0	1		06/18/14 05:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		06/18/14 05:36	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		06/18/14 05:36	127-18-4	
Toluene	ND ug/L		5.0	1		06/18/14 05:36	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 05:36	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		06/18/14 05:36	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		06/18/14 05:36	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		06/18/14 05:36	79-00-5	
Trichloroethene	ND ug/L		5.0	1		06/18/14 05:36	79-01-6	
Trichlorofluoromethane	ND ug/L		10.0	1		06/18/14 05:36	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		06/18/14 05:36	76-13-1	
Vinyl acetate	ND ug/L		10.0	1		06/18/14 05:36	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/18/14 05:36	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/18/14 05:36	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102 %		70-130	1		06/18/14 05:36	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/18/14 05:36	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/18/14 05:36	2037-26-5	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	ND ug/L		2.0	1		06/22/14 17:58	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	105 %		50-150	1		06/22/14 17:58	17060-07-0	
Toluene-d8 (S)	95 %		50-150	1		06/22/14 17:58	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	<b>89.9</b> mg/L		5.0	1		06/18/14 14:56		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND mg/L		0.10	1		06/19/14 15:03	18496-25-8	
<b>365.1 Orthophosphate as P</b>		Analytical Method: EPA 365.1						
Orthophosphate as P	ND mg/L		0.050	1		06/24/14 16:49		H5

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: MW-45	Lab ID: 92205236023	Collected: 06/12/14 16:14	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>9056 IC Anions 48hr, GWD</b>		Analytical Method: EPA 9056A						
Chloride	1.3 mg/L		1.0	1		06/13/14 20:07	16887-00-6	
Nitrate as N	2.0 mg/L		0.10	1		06/13/14 20:07	14797-55-8	
Nitrite as N	ND mg/L		0.10	1		06/13/14 20:07	14797-65-0	
Sulfate	ND mg/L		1.0	1		06/13/14 20:07	14808-79-8	
<b>Total Organic Carbon, GWD</b>		Analytical Method: EPA 9060A						
Total Organic Carbon	1.7 mg/L		1.0	1		06/26/14 08:17	7440-44-0	
Total Organic Carbon	1.7 mg/L		1.0	1		06/26/14 08:17	7440-44-0	
Total Organic Carbon	1.7 mg/L		1.0	1		06/26/14 08:17	7440-44-0	
Total Organic Carbon	1.6 mg/L		1.0	1		06/26/14 08:17	7440-44-0	
Mean Total Organic Carbon	1.7 mg/L		1.0	1		06/26/14 08:17	7440-44-0	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Manganese, Dissolved	11.5 ug/L		5.0	1	06/17/14 14:34	06/18/14 01:28	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		25.0	1		06/18/14 05:51	67-64-1	
Benzene	ND ug/L		5.0	1		06/18/14 05:51	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		06/18/14 05:51	75-27-4	
Bromoform	ND ug/L		5.0	1		06/18/14 05:51	75-25-2	
Bromomethane	ND ug/L		10.0	1		06/18/14 05:51	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/18/14 05:51	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		06/18/14 05:51	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		06/18/14 05:51	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		06/18/14 05:51	108-90-7	
Chloroethane	ND ug/L		10.0	1		06/18/14 05:51	75-00-3	
Chloroform	ND ug/L		5.0	1		06/18/14 05:51	67-66-3	
Chloromethane	ND ug/L		5.0	1		06/18/14 05:51	74-87-3	
Cyclohexane	ND ug/L		5.0	1		06/18/14 05:51	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		2.0	1		06/18/14 05:51	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		06/18/14 05:51	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		06/18/14 05:51	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 05:51	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 05:51	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		06/18/14 05:51	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		06/18/14 05:51	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		06/18/14 05:51	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		06/18/14 05:51	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		06/18/14 05:51	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 05:51	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		06/18/14 05:51	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		06/18/14 05:51	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 05:51	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		06/18/14 05:51	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		06/18/14 05:51	100-41-4	
2-Hexanone	ND ug/L		10.0	1		06/18/14 05:51	591-78-6	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: MW-45		Lab ID: 92205236023	Collected: 06/12/14 16:14	Received: 06/13/14 07:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/18/14 05:51	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/18/14 05:51	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/18/14 05:51	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/18/14 05:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/18/14 05:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/18/14 05:51	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/18/14 05:51	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/18/14 05:51	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/18/14 05:51	127-18-4	
Toluene	ND	ug/L	5.0	1		06/18/14 05:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/18/14 05:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/18/14 05:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/18/14 05:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/18/14 05:51	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/18/14 05:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/18/14 05:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/18/14 05:51	76-13-1	
Vinyl acetate	ND	ug/L	10.0	1		06/18/14 05:51	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		06/18/14 05:51	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/18/14 05:51	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102 %		70-130	1		06/18/14 05:51	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		06/18/14 05:51	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		06/18/14 05:51	2037-26-5	
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	9.2	mg/L	5.0	1		06/18/14 15:16		
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D						
Sulfide	ND	mg/L	0.10	1		06/19/14 15:03	18496-25-8	
<b>365.1 Orthophosphate as P</b>		Analytical Method: EPA 365.1						
Orthophosphate as P	0.068	mg/L	0.050	1		06/24/14 16:49		H5

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

<b>Sample: EW-43</b>		<b>Lab ID: 92205236024</b>	Collected: 06/12/14 16:25	Received: 06/13/14 07:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	ND ug/L		10.0	1	06/16/14 15:10	06/24/14 17:06	92-52-4	
Diphenyl ether (Phenyl ether)	ND ug/L		10.0	1	06/16/14 15:10	06/24/14 17:06	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	46 %		21-110	1	06/16/14 15:10	06/24/14 17:06	4165-60-0	P2
2-Fluorobiphenyl (S)	59 %		27-110	1	06/16/14 15:10	06/24/14 17:06	321-60-8	
Terphenyl-d14 (S)	66 %		31-107	1	06/16/14 15:10	06/24/14 17:06	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>67.0</b> ug/L		2.0	1		06/22/14 18:19	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	125 %		50-150	1		06/22/14 18:19	17060-07-0	
Toluene-d8 (S)	95 %		50-150	1		06/22/14 18:19	2037-26-5	

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### ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: <b>EW-28</b>	Lab ID: <b>92205236025</b>	Collected: 06/12/14 16:35	Received: 06/13/14 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Biphenyl (Diphenyl)	<b>26.4</b> ug/L		10.0	1	06/24/14 15:36	06/27/14 14:56	92-52-4	
Diphenyl ether (Phenyl ether)	<b>167</b> ug/L		40.0	4	06/24/14 15:36	06/27/14 15:32	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	85 %		21-110	1	06/24/14 15:36	06/27/14 14:56	4165-60-0	H5
2-Fluorobiphenyl (S)	87 %		27-110	1	06/24/14 15:36	06/27/14 14:56	321-60-8	
Terphenyl-d14 (S)	92 %		31-107	1	06/24/14 15:36	06/27/14 14:56	1718-51-0	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	<b>85.8</b> ug/L		2.0	1		06/22/14 18:40	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	130 %		50-150	1		06/22/14 18:40	17060-07-0	
Toluene-d8 (S)	95 %		50-150	1		06/22/14 18:40	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

<b>Sample: EW-02</b>		<b>Lab ID: 92205236027</b>	Collected: 06/12/14 17:20	Received: 06/13/14 07:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV Semivolatile Organic</b>		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Biphenyl (Diphenyl)	<b>141</b> ug/L		10.0	1	06/23/14 16:20	06/24/14 20:14	92-52-4	E
Diphenyl ether (Phenyl ether)	<b>910</b> ug/L		200	20	06/23/14 16:20	06/27/14 11:59	101-84-8	
<b>Surrogates</b>								
Nitrobenzene-d5 (S)	66 %		21-110	1	06/23/14 16:20	06/24/14 20:14	4165-60-0	H5
2-Fluorobiphenyl (S)	81 %		27-110	1	06/23/14 16:20	06/24/14 20:14	321-60-8	
Terphenyl-d14 (S)	86 %		31-107	1	06/23/14 16:20	06/24/14 20:14	1718-51-0	
<b>8260 MSV SIM</b>		Analytical Method: EPA 8260B Mod.						
1,4-Dioxane (p-Dioxane)	<b>190</b> ug/L		10.0	5		06/22/14 19:02	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	133 %		50-150	5		06/22/14 19:02	17060-07-0	
Toluene-d8 (S)	93 %		50-150	5		06/22/14 19:02	2037-26-5	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Sample: TRIP BLANK03		Lab ID: 92205236028	Collected: 06/12/14 00:00	Received: 06/13/14 07:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		06/19/14 00:41	67-64-1	
Benzene	ND	ug/L	5.0	1		06/19/14 00:41	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/19/14 00:41	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/19/14 00:41	75-25-2	
Bromomethane	ND	ug/L	10.0	1		06/19/14 00:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/19/14 00:41	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/19/14 00:41	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/19/14 00:41	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/19/14 00:41	108-90-7	
Chloroethane	ND	ug/L	10.0	1		06/19/14 00:41	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/19/14 00:41	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/19/14 00:41	74-87-3	
Cyclohexane	ND	ug/L	5.0	1		06/19/14 00:41	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/19/14 00:41	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/19/14 00:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/19/14 00:41	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/19/14 00:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/19/14 00:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/19/14 00:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/19/14 00:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/19/14 00:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/19/14 00:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/19/14 00:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/19/14 00:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/19/14 00:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/19/14 00:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/19/14 00:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/19/14 00:41	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/19/14 00:41	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/19/14 00:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/19/14 00:41	98-82-8	
Methyl acetate	ND	ug/L	10.0	1		06/19/14 00:41	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1		06/19/14 00:41	108-87-2	
Methylene Chloride	ND	ug/L	5.0	1		06/19/14 00:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/19/14 00:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		06/19/14 00:41	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/19/14 00:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/19/14 00:41	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/19/14 00:41	127-18-4	
Toluene	ND	ug/L	5.0	1		06/19/14 00:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/19/14 00:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/19/14 00:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/19/14 00:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/19/14 00:41	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/19/14 00:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		06/19/14 00:41	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/19/14 00:41	76-13-1	

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## ANALYTICAL RESULTS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

<b>Sample: TRIP BLANK03</b>		<b>Lab ID: 92205236028</b>	Collected: 06/12/14 00:00	Received: 06/13/14 07:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Vinyl acetate	ND ug/L		10.0	1		06/19/14 00:41	108-05-4	
Vinyl chloride	ND ug/L		5.0	1		06/19/14 00:41	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		06/19/14 00:41	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	97 %		70-130	1		06/19/14 00:41	460-00-4	
1,2-Dichloroethane-d4 (S)	94 %		70-130	1		06/19/14 00:41	17060-07-0	
Toluene-d8 (S)	94 %		70-130	1		06/19/14 00:41	2037-26-5	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

QC Batch: GWD/1339 Analysis Method: EPA 9056A  
 QC Batch Method: EPA 9056A Analysis Description: 9056 IC Anions, GWD  
 Associated Lab Samples: 92205236001, 92205236002, 92205236003, 92205236005, 92205236006

METHOD BLANK: 1219680 Matrix: Water  
 Associated Lab Samples: 92205236001, 92205236002, 92205236003, 92205236005, 92205236006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	06/12/14 12:59	
Nitrate as N	mg/L	ND	0.10	06/12/14 12:59	
Nitrite as N	mg/L	ND	0.10	06/12/14 12:59	
Orthophosphate as P	mg/L	ND	0.10	06/12/14 12:59	
Sulfate	mg/L	ND	1.0	06/12/14 12:59	

LABORATORY CONTROL SAMPLE: 1219681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.8	102	90-110	
Nitrate as N	mg/L	2.5	2.5	100	90-110	
Nitrite as N	mg/L	2.5	2.5	101	90-110	
Orthophosphate as P	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	49.3	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1219682 1219683

Parameter	Units	92205025018		MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Chloride	mg/L	4.1	50	50	56.9	60.3	106	112	90-110	6	M1	
Nitrate as N	mg/L	0.76	2.5	2.5	3.5	3.6	108	115	90-110	5	M1	
Nitrite as N	mg/L	ND	2.5	2.5	2.6	2.8	103	109	90-110	6		
Orthophosphate as P	mg/L	ND	2.5	2.5	2.2	2.4	90	96	90-110	7		
Sulfate	mg/L	1.8	50	50	54.2	57.6	105	112	90-110	6	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1219684 1219685

Parameter	Units	92205035003		MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Chloride	mg/L	ND	50	50	51.2	51.5	101	101	90-110	1		
Nitrate as N	mg/L	0.39	2.5	2.5	2.9	2.9	101	102	90-110	1		
Nitrite as N	mg/L	ND	2.5	2.5	2.4	2.5	95	100	90-110	5		
Orthophosphate as P	mg/L	ND	2.5	2.5	2.1	2.2	83	88	90-110	5	M1	
Sulfate	mg/L	2.0	50	50	52.0	52.3	100	101	90-110	1		

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG  
Pace Project No.: 92205236

QC Batch: GWD/1361 Analysis Method: EPA 9056A  
QC Batch Method: EPA 9056A Analysis Description: 9056 IC Anions, GWD  
Associated Lab Samples: 92205236007, 92205236008, 92205236009, 92205236010, 92205236011, 92205236012, 92205236013, 92205236014, 92205236015, 92205236016, 92205236017, 92205236018, 92205236019, 92205236020, 92205236021, 92205236022, 92205236023

METHOD BLANK: 1225772 Matrix: Water  
Associated Lab Samples: 92205236007, 92205236008, 92205236009, 92205236010, 92205236011, 92205236012, 92205236013, 92205236014, 92205236015, 92205236016, 92205236017, 92205236018, 92205236019, 92205236020, 92205236021, 92205236022, 92205236023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	06/13/14 06:20	
Nitrate as N	mg/L	ND	0.10	06/13/14 06:20	
Nitrite as N	mg/L	ND	0.10	06/13/14 06:20	
Sulfate	mg/L	ND	1.0	06/13/14 06:20	

LABORATORY CONTROL SAMPLE: 1225773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.8	102	90-110	
Nitrate as N	mg/L	2.5	2.5	100	90-110	
Nitrite as N	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	49.1	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1225774 1225775

Parameter	92205236007		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result	Conc.	Conc.							
Chloride	mg/L	ND	50	50	52.2	53.1	103	104	90-110	2	
Nitrate as N	mg/L	0.19	2.5	2.5	2.7	2.8	101	103	90-110	2	
Nitrite as N	mg/L	ND	2.5	2.5	2.5	2.5	100	101	90-110	2	
Sulfate	mg/L	ND	50	50	50.5	51.6	101	103	90-110	2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1225776 1225777

Parameter	92205236023		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result	Conc.	Conc.							
Chloride	mg/L	1.3	50	50	52.0	52.2	101	102	90-110	0	
Nitrate as N	mg/L	2.0	2.5	2.5	4.7	4.7	107	107	90-110	0	
Nitrite as N	mg/L	ND	2.5	2.5	2.4	2.5	97	99	90-110	2	
Sulfate	mg/L	ND	50	50	50.0	50.4	99	100	90-110	1	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG  
Pace Project No.: 92205236

QC Batch: GWD/1372      Analysis Method: EPA 9060A  
QC Batch Method: EPA 9060A      Analysis Description: 9060 TOC, GWD  
Associated Lab Samples: 92205236001, 92205236002, 92205236003, 92205236005, 92205236006, 92205236007, 92205236008, 92205236009, 92205236010, 92205236011

METHOD BLANK: 1228820      Matrix: Water  
Associated Lab Samples: 92205236001, 92205236002, 92205236003, 92205236005, 92205236006, 92205236007, 92205236008, 92205236009, 92205236010, 92205236011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	ND	1.0	06/25/14 15:15	
Total Organic Carbon	mg/L	ND	1.0	06/25/14 15:15	
Total Organic Carbon	mg/L	ND	1.0	06/25/14 15:15	
Total Organic Carbon	mg/L	ND	1.0	06/25/14 15:15	
Total Organic Carbon	mg/L	ND	1.0	06/25/14 15:15	

LABORATORY CONTROL SAMPLE: 1228821

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	50	48.4	97	75-125	
Total Organic Carbon	mg/L	50	47.9	96	75-125	
Total Organic Carbon	mg/L	50	49.5	99	75-125	
Total Organic Carbon	mg/L	50	49.1	98	75-125	
Total Organic Carbon	mg/L	50	47.3	95	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1228822      1228823

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92205236001 Result	Spike Conc.	Spike Conc.	MS Result					
Mean Total Organic Carbon	mg/L	1.3	50	50	51.3	52.3	100	102	75-125	2
Total Organic Carbon	mg/L	1.3	50	50	51.8	52.9	101	103	75-125	2
Total Organic Carbon	mg/L	1.4	50	50	50.7	53.5	99	104	75-125	5
Total Organic Carbon	mg/L	1.3	50	50	51.9	52.0	101	101	75-125	0
Total Organic Carbon	mg/L	1.3	50	50	50.8	51.0	99	99	75-125	0

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG  
Pace Project No.: 92205236

QC Batch: GWD/1373 Analysis Method: EPA 9060A  
QC Batch Method: EPA 9060A Analysis Description: 9060 TOC, GWD  
Associated Lab Samples: 92205236012, 92205236013, 92205236014, 92205236015, 92205236016, 92205236017, 92205236018, 92205236019, 92205236020, 92205236021

METHOD BLANK: 1228824 Matrix: Water  
Associated Lab Samples: 92205236012, 92205236013, 92205236014, 92205236015, 92205236016, 92205236017, 92205236018, 92205236019, 92205236020, 92205236021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	ND	1.0	06/25/14 22:44	
Total Organic Carbon	mg/L	ND	1.0	06/25/14 22:44	
Total Organic Carbon	mg/L	ND	1.0	06/25/14 22:44	
Total Organic Carbon	mg/L	ND	1.0	06/25/14 22:44	
Total Organic Carbon	mg/L	ND	1.0	06/25/14 22:44	

LABORATORY CONTROL SAMPLE: 1228825

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	50	48.0	96	75-125	
Total Organic Carbon	mg/L	50	47.6	95	75-125	
Total Organic Carbon	mg/L	50	48.2	96	75-125	
Total Organic Carbon	mg/L	50	48.5	97	75-125	
Total Organic Carbon	mg/L	50	47.8	96	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1228826 1228827

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92205236012 Result	Spike Conc.	Spike Conc.	MS Result					
Mean Total Organic Carbon	mg/L	ND	50	50	50.4	49.7	101	99	75-125	1
Total Organic Carbon	mg/L	ND	50	50	51.0	49.9	102	100	75-125	2
Total Organic Carbon	mg/L	ND	50	50	50.4	48.3	101	97	75-125	4
Total Organic Carbon	mg/L	ND	50	50	49.9	51.0	100	102	75-125	2
Total Organic Carbon	mg/L	ND	50	50	50.2	49.7	100	99	75-125	1

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

QC Batch: GWD/1374      Analysis Method: EPA 9060A  
 QC Batch Method: EPA 9060A      Analysis Description: 9060 TOC, GWD  
 Associated Lab Samples: 92205236022, 92205236023

METHOD BLANK: 1228831      Matrix: Water

Associated Lab Samples: 92205236022, 92205236023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	ND	1.0	06/26/14 06:08	
Total Organic Carbon	mg/L	ND	1.0	06/26/14 06:08	
Total Organic Carbon	mg/L	ND	1.0	06/26/14 06:08	
Total Organic Carbon	mg/L	ND	1.0	06/26/14 06:08	
Total Organic Carbon	mg/L	ND	1.0	06/26/14 06:08	

LABORATORY CONTROL SAMPLE: 1228832

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	50	49.6	99	75-125	
Total Organic Carbon	mg/L	50	49.3	99	75-125	
Total Organic Carbon	mg/L	50	50.3	101	75-125	
Total Organic Carbon	mg/L	50	50.4	101	75-125	
Total Organic Carbon	mg/L	50	48.7	97	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1228833      1228834

Parameter	92205236022		MS	MSD	MS		MSD		% Rec	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Mean Total Organic Carbon	mg/L	43.3	50	50	95.6	96.9	105	107	75-125	1	
Total Organic Carbon	mg/L	42.9	50	50	96.8	96.7	108	108	75-125	0	
Total Organic Carbon	mg/L	42.9	50	50	94.4	95.1	103	104	75-125	1	
Total Organic Carbon	mg/L	43.4	50	50	95.3	98.6	104	110	75-125	3	
Total Organic Carbon	mg/L	44.0	50	50	95.9	97.3	104	107	75-125	1	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

QC Batch: MPRP/16225

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET Filtered

Associated Lab Samples: 92205236001, 92205236002, 92205236003, 92205236005, 92205236006, 92205236007, 92205236008, 92205236009, 92205236010, 92205236011, 92205236012, 92205236013, 92205236014, 92205236015, 92205236016, 92205236017, 92205236018, 92205236019, 92205236020, 92205236021

METHOD BLANK: 1222342

Matrix: Water

Associated Lab Samples: 92205236001, 92205236002, 92205236003, 92205236005, 92205236006, 92205236007, 92205236008, 92205236009, 92205236010, 92205236011, 92205236012, 92205236013, 92205236014, 92205236015, 92205236016, 92205236017, 92205236018, 92205236019, 92205236020, 92205236021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	5.0	06/18/14 03:20	

LABORATORY CONTROL SAMPLE: 1222343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	500	454	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222344 1222345

Parameter	Units	92205236001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Manganese, Dissolved	ug/L	ND	500	500	429	426	85	84	75-125	1	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

QC Batch: MPRP/16226      Analysis Method: EPA 6010  
 QC Batch Method: EPA 3010      Analysis Description: 6010 MET Filtered  
 Associated Lab Samples: 92205236022, 92205236023

METHOD BLANK: 1222392      Matrix: Water

Associated Lab Samples: 92205236022, 92205236023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	5.0	06/18/14 00:16	

LABORATORY CONTROL SAMPLE: 1222393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	500	454	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222394      1222395

Parameter	Units	92204837002		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Manganese, Dissolved	ug/L	1200	500	500	1600	1590	80	78	75-125	1				

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

QC Batch: MSV/27236

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV SC

Associated Lab Samples: 92205236002

METHOD BLANK: 1222330

Matrix: Water

Associated Lab Samples: 92205236002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/17/14 01:40	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/17/14 01:40	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/17/14 01:40	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	06/17/14 01:40	
1,1-Dichloroethane	ug/L	ND	5.0	06/17/14 01:40	
1,1-Dichloroethene	ug/L	ND	5.0	06/17/14 01:40	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/17/14 01:40	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/17/14 01:40	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	06/17/14 01:40	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/17/14 01:40	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/17/14 01:40	
1,2-Dichloroethane	ug/L	ND	5.0	06/17/14 01:40	
1,2-Dichloropropane	ug/L	ND	5.0	06/17/14 01:40	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/17/14 01:40	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/17/14 01:40	
2-Butanone (MEK)	ug/L	ND	10.0	06/17/14 01:40	
2-Hexanone	ug/L	ND	10.0	06/17/14 01:40	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/17/14 01:40	
Acetone	ug/L	ND	25.0	06/17/14 01:40	
Benzene	ug/L	ND	5.0	06/17/14 01:40	
Bromodichloromethane	ug/L	ND	5.0	06/17/14 01:40	
Bromoform	ug/L	ND	5.0	06/17/14 01:40	
Bromomethane	ug/L	ND	10.0	06/17/14 01:40	
Carbon disulfide	ug/L	ND	10.0	06/17/14 01:40	
Carbon tetrachloride	ug/L	ND	5.0	06/17/14 01:40	
Chlorobenzene	ug/L	ND	5.0	06/17/14 01:40	
Chloroethane	ug/L	ND	10.0	06/17/14 01:40	
Chloroform	ug/L	ND	5.0	06/17/14 01:40	
Chloromethane	ug/L	ND	5.0	06/17/14 01:40	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/17/14 01:40	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/17/14 01:40	
Cyclohexane	ug/L	ND	5.0	06/17/14 01:40	
Dibromochloromethane	ug/L	ND	5.0	06/17/14 01:40	
Dichlorodifluoromethane	ug/L	ND	5.0	06/17/14 01:40	
Ethylbenzene	ug/L	ND	5.0	06/17/14 01:40	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/17/14 01:40	
Methyl acetate	ug/L	ND	10.0	06/17/14 01:40	
Methyl-tert-butyl ether	ug/L	ND	5.0	06/17/14 01:40	
Methylcyclohexane	ug/L	ND	10.0	06/17/14 01:40	
Methylene Chloride	ug/L	ND	5.0	06/17/14 01:40	
Styrene	ug/L	ND	5.0	06/17/14 01:40	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG  
Pace Project No.: 92205236

METHOD BLANK: 1222330 Matrix: Water  
Associated Lab Samples: 92205236002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tetrachloroethene	ug/L	ND	5.0	06/17/14 01:40	
Toluene	ug/L	ND	5.0	06/17/14 01:40	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/17/14 01:40	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/17/14 01:40	
Trichloroethene	ug/L	ND	5.0	06/17/14 01:40	
Trichlorofluoromethane	ug/L	ND	10.0	06/17/14 01:40	
Vinyl acetate	ug/L	ND	10.0	06/17/14 01:40	
Vinyl chloride	ug/L	ND	5.0	06/17/14 01:40	
Xylene (Total)	ug/L	ND	10.0	06/17/14 01:40	
1,2-Dichloroethane-d4 (S)	%	101	70-130	06/17/14 01:40	
4-Bromofluorobenzene (S)	%	102	70-130	06/17/14 01:40	
Toluene-d8 (S)	%	100	70-130	06/17/14 01:40	

LABORATORY CONTROL SAMPLE: 1222331

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.4	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.2	100	70-130	
1,1,2-Trichloroethane	ug/L	50	50.9	102	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	48.7	97	70-130	
1,1-Dichloroethane	ug/L	50	45.8	92	70-130	
1,1-Dichloroethene	ug/L	50	52.3	105	70-130	
1,2,3-Trichlorobenzene	ug/L	50	49.5	99	70-130	
1,2,4-Trichlorobenzene	ug/L	50	46.3	93	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	50.4	101	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.8	98	70-130	
1,2-Dichlorobenzene	ug/L	50	47.2	94	70-130	
1,2-Dichloroethane	ug/L	50	49.4	99	70-130	
1,2-Dichloropropane	ug/L	50	47.4	95	70-130	
1,3-Dichlorobenzene	ug/L	50	45.3	91	70-130	
1,4-Dichlorobenzene	ug/L	50	45.9	92	70-130	
2-Butanone (MEK)	ug/L	100	111	111	70-130	
2-Hexanone	ug/L	100	95.8	96	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	70-130	
Acetone	ug/L	100	104	104	70-130	
Benzene	ug/L	50	48.4	97	70-130	
Bromodichloromethane	ug/L	50	48.6	97	70-130	
Bromoform	ug/L	50	52.0	104	70-130	
Bromomethane	ug/L	50	52.6	105	70-130	
Carbon disulfide	ug/L	50	46.5	93	70-130	
Carbon tetrachloride	ug/L	50	51.9	104	70-130	
Chlorobenzene	ug/L	50	45.3	91	70-130	
Chloroethane	ug/L	50	50.3	101	70-130	
Chloroform	ug/L	50	49.8	100	70-130	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

LABORATORY CONTROL SAMPLE: 1222331

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	50	50.2	100	70-130	
cis-1,2-Dichloroethene	ug/L	50	49.3	99	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.3	95	70-130	
Cyclohexane	ug/L	50	55.0	110	70-130	
Dibromochloromethane	ug/L	50	47.0	94	70-130	
Dichlorodifluoromethane	ug/L	50	61.3	123	70-130	
Ethylbenzene	ug/L	50	44.5	89	70-130	
Isopropylbenzene (Cumene)	ug/L	50	47.3	95	70-130	
Methyl acetate	ug/L	50	51.2	102	70-130	
Methyl-tert-butyl ether	ug/L	50	53.9	108	70-130	
Methylcyclohexane	ug/L	50	52.3	105	70-130	
Methylene Chloride	ug/L	50	49.7	99	70-130	
Styrene	ug/L	50	47.3	95	70-130	
Tetrachloroethene	ug/L	50	46.6	93	70-130	
Toluene	ug/L	50	47.1	94	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.4	99	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.2	94	70-130	
Trichloroethene	ug/L	50	47.9	96	70-130	
Trichlorofluoromethane	ug/L	50	56.0	112	70-130	
Vinyl acetate	ug/L	100	103	103	70-130	
Vinyl chloride	ug/L	50	59.9	120	70-130	
Xylene (Total)	ug/L	150	136	90	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			101	70-130	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

QC Batch: MSV/27251

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV SC

Associated Lab Samples: 92205236003

METHOD BLANK: 1223273

Matrix: Water

Associated Lab Samples: 92205236003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/17/14 16:09	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/17/14 16:09	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/17/14 16:09	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	06/17/14 16:09	
1,1-Dichloroethane	ug/L	ND	5.0	06/17/14 16:09	
1,1-Dichloroethene	ug/L	ND	5.0	06/17/14 16:09	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/17/14 16:09	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/17/14 16:09	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	06/17/14 16:09	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/17/14 16:09	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/17/14 16:09	
1,2-Dichloroethane	ug/L	ND	5.0	06/17/14 16:09	
1,2-Dichloropropane	ug/L	ND	5.0	06/17/14 16:09	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/17/14 16:09	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/17/14 16:09	
2-Butanone (MEK)	ug/L	ND	10.0	06/17/14 16:09	
2-Hexanone	ug/L	ND	10.0	06/17/14 16:09	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/17/14 16:09	
Acetone	ug/L	ND	25.0	06/17/14 16:09	
Benzene	ug/L	ND	5.0	06/17/14 16:09	
Bromodichloromethane	ug/L	ND	5.0	06/17/14 16:09	
Bromoform	ug/L	ND	5.0	06/17/14 16:09	
Bromomethane	ug/L	ND	10.0	06/17/14 16:09	
Carbon disulfide	ug/L	ND	10.0	06/17/14 16:09	
Carbon tetrachloride	ug/L	ND	5.0	06/17/14 16:09	
Chlorobenzene	ug/L	ND	5.0	06/17/14 16:09	
Chloroethane	ug/L	ND	10.0	06/17/14 16:09	
Chloroform	ug/L	ND	5.0	06/17/14 16:09	
Chloromethane	ug/L	ND	5.0	06/17/14 16:09	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/17/14 16:09	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/17/14 16:09	
Cyclohexane	ug/L	ND	5.0	06/17/14 16:09	
Dibromochloromethane	ug/L	ND	5.0	06/17/14 16:09	
Dichlorodifluoromethane	ug/L	ND	5.0	06/17/14 16:09	
Ethylbenzene	ug/L	ND	5.0	06/17/14 16:09	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/17/14 16:09	
Methyl acetate	ug/L	ND	10.0	06/17/14 16:09	
Methyl-tert-butyl ether	ug/L	ND	5.0	06/17/14 16:09	
Methylcyclohexane	ug/L	ND	10.0	06/17/14 16:09	
Methylene Chloride	ug/L	ND	5.0	06/17/14 16:09	
Styrene	ug/L	ND	5.0	06/17/14 16:09	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG  
Pace Project No.: 92205236

METHOD BLANK: 1223273 Matrix: Water  
Associated Lab Samples: 92205236003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tetrachloroethene	ug/L	ND	5.0	06/17/14 16:09	
Toluene	ug/L	ND	5.0	06/17/14 16:09	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/17/14 16:09	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/17/14 16:09	
Trichloroethene	ug/L	ND	5.0	06/17/14 16:09	
Trichlorofluoromethane	ug/L	ND	10.0	06/17/14 16:09	
Vinyl acetate	ug/L	ND	10.0	06/17/14 16:09	
Vinyl chloride	ug/L	ND	5.0	06/17/14 16:09	
Xylene (Total)	ug/L	ND	10.0	06/17/14 16:09	
1,2-Dichloroethane-d4 (S)	%	93	70-130	06/17/14 16:09	
4-Bromofluorobenzene (S)	%	106	70-130	06/17/14 16:09	
Toluene-d8 (S)	%	96	70-130	06/17/14 16:09	

LABORATORY CONTROL SAMPLE: 1223274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	56.3	113	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.5	99	70-130	
1,1,2-Trichloroethane	ug/L	50	51.5	103	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	53.3	107	70-130	
1,1-Dichloroethane	ug/L	50	46.8	94	70-130	
1,1-Dichloroethene	ug/L	50	61.6	123	70-130	
1,2,3-Trichlorobenzene	ug/L	50	52.7	105	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.2	102	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	51.4	103	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	55.8	112	70-130	
1,2-Dichlorobenzene	ug/L	50	50.8	102	70-130	
1,2-Dichloroethane	ug/L	50	57.4	115	70-130	
1,2-Dichloropropane	ug/L	50	47.5	95	70-130	
1,3-Dichlorobenzene	ug/L	50	50.2	100	70-130	
1,4-Dichlorobenzene	ug/L	50	50.0	100	70-130	
2-Butanone (MEK)	ug/L	100	95.5	96	70-130	
2-Hexanone	ug/L	100	108	108	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	70-130	
Acetone	ug/L	100	99.4	99	70-130	
Benzene	ug/L	50	50.6	101	70-130	
Bromodichloromethane	ug/L	50	53.1	106	70-130	
Bromoform	ug/L	50	52.8	106	70-130	
Bromomethane	ug/L	50	45.3	91	70-130	
Carbon disulfide	ug/L	50	52.9	106	70-130	
Carbon tetrachloride	ug/L	50	66.5	133	70-130 L3	
Chlorobenzene	ug/L	50	50.2	100	70-130	
Chloroethane	ug/L	50	61.3	123	70-130	
Chloroform	ug/L	50	53.9	108	70-130	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

LABORATORY CONTROL SAMPLE: 1223274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	50	44.8	90	70-130	
cis-1,2-Dichloroethene	ug/L	50	49.8	100	70-130	
cis-1,3-Dichloropropene	ug/L	50	55.5	111	70-130	
Cyclohexane	ug/L	50	47.1	94	70-130	
Dibromochloromethane	ug/L	50	52.0	104	70-130	
Dichlorodifluoromethane	ug/L	50	52.9	106	70-130	
Ethylbenzene	ug/L	50	51.7	103	70-130	
Isopropylbenzene (Cumene)	ug/L	50	54.2	108	70-130	
Methyl acetate	ug/L	50	42.9	86	70-130	
Methyl-tert-butyl ether	ug/L	50	56.0	112	70-130	
Methylcyclohexane	ug/L	50	45.5	91	70-130	
Methylene Chloride	ug/L	50	44.8	90	70-130	
Styrene	ug/L	50	53.6	107	70-130	
Tetrachloroethene	ug/L	50	55.1	110	70-130	
Toluene	ug/L	50	48.9	98	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.3	101	70-130	
trans-1,3-Dichloropropene	ug/L	50	52.8	106	70-130	
Trichloroethene	ug/L	50	51.5	103	70-130	
Trichlorofluoromethane	ug/L	50	60.4	121	70-130	
Vinyl acetate	ug/L	100	106	106	70-130	
Vinyl chloride	ug/L	50	54.1	108	70-130	
Xylene (Total)	ug/L	150	161	107	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			98	70-130	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

QC Batch: MSV/27254 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92205236001, 92205236004, 92205236005, 92205236006, 92205236007, 92205236008, 92205236009,  
 92205236010, 92205236011, 92205236012, 92205236013, 92205236014, 92205236016, 92205236017,  
 92205236018, 92205236019, 92205236020, 92205236021, 92205236022, 92205236023

METHOD BLANK: 1223369 Matrix: Water

Associated Lab Samples: 92205236001, 92205236004, 92205236005, 92205236006, 92205236007, 92205236008, 92205236009,  
 92205236010, 92205236011, 92205236012, 92205236013, 92205236014, 92205236016, 92205236017,  
 92205236018, 92205236019, 92205236020, 92205236021, 92205236022, 92205236023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/18/14 00:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/18/14 00:39	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/18/14 00:39	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	06/18/14 00:39	
1,1-Dichloroethane	ug/L	ND	5.0	06/18/14 00:39	
1,1-Dichloroethene	ug/L	ND	5.0	06/18/14 00:39	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/18/14 00:39	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/18/14 00:39	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	06/18/14 00:39	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/18/14 00:39	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/18/14 00:39	
1,2-Dichloroethane	ug/L	ND	5.0	06/18/14 00:39	
1,2-Dichloropropane	ug/L	ND	5.0	06/18/14 00:39	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/18/14 00:39	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/18/14 00:39	
2-Butanone (MEK)	ug/L	ND	10.0	06/18/14 00:39	
2-Hexanone	ug/L	ND	10.0	06/18/14 00:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/18/14 00:39	
Acetone	ug/L	ND	25.0	06/18/14 00:39	
Benzene	ug/L	ND	5.0	06/18/14 00:39	
Bromodichloromethane	ug/L	ND	5.0	06/18/14 00:39	
Bromoform	ug/L	ND	5.0	06/18/14 00:39	
Bromomethane	ug/L	ND	10.0	06/18/14 00:39	
Carbon disulfide	ug/L	ND	10.0	06/18/14 00:39	
Carbon tetrachloride	ug/L	ND	5.0	06/18/14 00:39	
Chlorobenzene	ug/L	ND	5.0	06/18/14 00:39	
Chloroethane	ug/L	ND	10.0	06/18/14 00:39	
Chloroform	ug/L	ND	5.0	06/18/14 00:39	
Chloromethane	ug/L	ND	5.0	06/18/14 00:39	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/18/14 00:39	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/18/14 00:39	
Cyclohexane	ug/L	ND	5.0	06/18/14 00:39	
Dibromochloromethane	ug/L	ND	5.0	06/18/14 00:39	
Dichlorodifluoromethane	ug/L	ND	5.0	06/18/14 00:39	
Ethylbenzene	ug/L	ND	5.0	06/18/14 00:39	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/18/14 00:39	
Methyl acetate	ug/L	ND	10.0	06/18/14 00:39	
Methyl-tert-butyl ether	ug/L	ND	5.0	06/18/14 00:39	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

METHOD BLANK: 1223369

Matrix: Water

Associated Lab Samples: 92205236001, 92205236004, 92205236005, 92205236006, 92205236007, 92205236008, 92205236009, 92205236010, 92205236011, 92205236012, 92205236013, 92205236014, 92205236016, 92205236017, 92205236018, 92205236019, 92205236020, 92205236021, 92205236022, 92205236023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methylcyclohexane	ug/L	ND	10.0	06/18/14 00:39	
Methylene Chloride	ug/L	ND	5.0	06/18/14 00:39	
Styrene	ug/L	ND	5.0	06/18/14 00:39	
Tetrachloroethene	ug/L	ND	5.0	06/18/14 00:39	
Toluene	ug/L	ND	5.0	06/18/14 00:39	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/18/14 00:39	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/18/14 00:39	
Trichloroethene	ug/L	ND	5.0	06/18/14 00:39	
Trichlorofluoromethane	ug/L	ND	10.0	06/18/14 00:39	
Vinyl acetate	ug/L	ND	10.0	06/18/14 00:39	
Vinyl chloride	ug/L	ND	5.0	06/18/14 00:39	
Xylene (Total)	ug/L	ND	10.0	06/18/14 00:39	
1,2-Dichloroethane-d4 (S)	%	98	70-130	06/18/14 00:39	
4-Bromofluorobenzene (S)	%	102	70-130	06/18/14 00:39	
Toluene-d8 (S)	%	99	70-130	06/18/14 00:39	

LABORATORY CONTROL SAMPLE: 1223370

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.9	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	46.6	93	70-130	
1,1,2-Trichloroethane	ug/L	50	49.1	98	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	49.1	98	70-130	
1,1-Dichloroethane	ug/L	50	46.0	92	70-130	
1,1-Dichloroethene	ug/L	50	52.1	104	70-130	
1,2,3-Trichlorobenzene	ug/L	50	48.2	96	70-130	
1,2,4-Trichlorobenzene	ug/L	50	45.7	91	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.0	94	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	46.5	93	70-130	
1,2-Dichlorobenzene	ug/L	50	46.4	93	70-130	
1,2-Dichloroethane	ug/L	50	48.2	96	70-130	
1,2-Dichloropropane	ug/L	50	47.6	95	70-130	
1,3-Dichlorobenzene	ug/L	50	45.7	91	70-130	
1,4-Dichlorobenzene	ug/L	50	45.5	91	70-130	
2-Butanone (MEK)	ug/L	100	103	103	70-130	
2-Hexanone	ug/L	100	83.9	84	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	93.6	94	70-130	
Acetone	ug/L	100	98.5	98	70-130	
Benzene	ug/L	50	48.5	97	70-130	
Bromodichloromethane	ug/L	50	48.9	98	70-130	
Bromoform	ug/L	50	49.2	98	70-130	
Bromomethane	ug/L	50	48.5	97	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

LABORATORY CONTROL SAMPLE: 1223370

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon disulfide	ug/L	50	47.8	96	70-130	
Carbon tetrachloride	ug/L	50	52.8	106	70-130	
Chlorobenzene	ug/L	50	44.9	90	70-130	
Chloroethane	ug/L	50	50.8	102	70-130	
Chloroform	ug/L	50	50.6	101	70-130	
Chloromethane	ug/L	50	48.8	98	70-130	
cis-1,2-Dichloroethene	ug/L	50	49.3	99	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.1	94	70-130	
Cyclohexane	ug/L	50	57.1	114	70-130	
Dibromochloromethane	ug/L	50	45.7	91	70-130	
Dichlorodifluoromethane	ug/L	50	61.0	122	70-130	
Ethylbenzene	ug/L	50	44.6	89	70-130	
Isopropylbenzene (Cumene)	ug/L	50	47.9	96	70-130	
Methyl acetate	ug/L	50	46.9	94	70-130	
Methyl-tert-butyl ether	ug/L	50	51.4	103	70-130	
Methylcyclohexane	ug/L	50	53.8	108	70-130	
Methylene Chloride	ug/L	50	52.6	105	70-130	
Styrene	ug/L	50	47.4	95	70-130	
Tetrachloroethene	ug/L	50	46.7	93	70-130	
Toluene	ug/L	50	47.7	95	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.9	100	70-130	
trans-1,3-Dichloropropene	ug/L	50	46.6	93	70-130	
Trichloroethene	ug/L	50	48.5	97	70-130	
Trichlorofluoromethane	ug/L	50	56.8	114	70-130	
Vinyl acetate	ug/L	100	97.6	98	70-130	
Vinyl chloride	ug/L	50	59.0	118	70-130	
Xylene (Total)	ug/L	150	137	91	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1223552 1223553

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92205236018 Result	Spike Conc.	Spike Conc.	MS Result					
1,1,1-Trichloroethane	ug/L	ND	50	50	41.0	44.5	80	87	70-130	8
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	43.2	46.3	86	93	70-130	7
1,1,2-Trichloroethane	ug/L	ND	50	50	40.3	43.3	81	87	70-130	7
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	44.6	48.7	89	97	70-130	9
1,1-Dichloroethane	ug/L	ND	50	50	39.3	42.0	74	79	70-130	7
1,1-Dichloroethene	ug/L	13.7	50	50	57.1	61.2	87	95	70-130	7
1,2,3-Trichlorobenzene	ug/L	ND	50	50	48.0	51.2	96	102	70-130	6
1,2,4-Trichlorobenzene	ug/L	ND	50	50	47.7	50.3	95	101	70-130	5
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	44.3	47.9	89	96	70-130	8
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	43.4	46.5	87	93	70-130	7

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Parameter	92205236018		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec						
1,2-Dichlorobenzene	ug/L	ND	50	50	45.6	48.7	91	97	70-130	7				
1,2-Dichloroethane	ug/L	ND	50	50	36.6	40.2	73	80	70-130	9				
1,2-Dichloropropane	ug/L	ND	50	50	39.3	42.3	79	85	70-130	7				
1,3-Dichlorobenzene	ug/L	ND	50	50	44.9	48.3	90	97	70-130	7				
1,4-Dichlorobenzene	ug/L	ND	50	50	45.0	48.8	90	98	70-130	8				
2-Butanone (MEK)	ug/L	ND	100	100	76.1	83.1	76	83	70-130	9				
2-Hexanone	ug/L	ND	100	100	79.4	86.4	79	86	70-130	9				
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	76.3	82.4	76	82	70-130	8				
Acetone	ug/L	ND	100	100	73.1	78.1	73	78	70-130	7				
Benzene	ug/L	ND	50	50	41.9	45.0	84	90	70-130	7				
Bromodichloromethane	ug/L	ND	50	50	39.8	43.5	80	87	70-130	9				
Bromoform	ug/L	ND	50	50	45.8	48.2	92	96	70-130	5				
Bromomethane	ug/L	ND	50	50	41.2	44.9	82	90	70-130	8				
Carbon disulfide	ug/L	ND	50	50	41.3	43.7	83	87	70-130	6				
Carbon tetrachloride	ug/L	ND	50	50	48.6	52.4	97	105	70-130	8				
Chlorobenzene	ug/L	ND	50	50	42.6	45.8	85	92	70-130	7				
Chloroethane	ug/L	ND	50	50	42.2	44.4	84	89	70-130	5				
Chloroform	ug/L	ND	50	50	38.9	43.0	78	86	70-130	10				
Chloromethane	ug/L	ND	50	50	40.7	43.4	81	87	70-130	6				
cis-1,2-Dichloroethene	ug/L	ND	50	50	39.9	43.2	77	83	70-130	8				
cis-1,3-Dichloropropene	ug/L	ND	50	50	39.7	42.4	79	85	70-130	6				
Cyclohexane	ug/L	ND	50	50	50.1	53.7	100	107	70-130	7				
Dibromochloromethane	ug/L	ND	50	50	42.5	45.5	85	91	70-130	7				
Dichlorodifluoromethane	ug/L	ND	50	50	53.4	56.7	107	113	70-130	6				
Ethylbenzene	ug/L	ND	50	50	43.3	46.2	87	92	70-130	6				
Isopropylbenzene (Cumene)	ug/L	ND	50	50	47.1	49.8	94	100	70-130	6				
Methyl acetate	ug/L	ND	50	50	36.9	39.5	74	79	70-130	7				
Methyl-tert-butyl ether	ug/L	ND	50	50	39.6	43.0	79	86	70-130	8				
Methylcyclohexane	ug/L	ND	50	50	53.7	56.1	107	112	70-130	4				
Methylene Chloride	ug/L	ND	50	50	37.2	40.2	74	80	70-130	8				
Styrene	ug/L	ND	50	50	44.1	47.0	88	94	70-130	6				
Tetrachloroethene	ug/L	ND	50	50	48.1	51.5	96	103	70-130	7				
Toluene	ug/L	ND	50	50	40.9	43.8	81	87	70-130	7				
trans-1,2-Dichloroethene	ug/L	ND	50	50	41.1	44.2	82	88	70-130	7				
trans-1,3-Dichloropropene	ug/L	ND	50	50	38.3	41.5	77	83	70-130	8				
Trichloroethene	ug/L	ND	50	50	44.1	47.5	85	92	70-130	7				
Trichlorofluoromethane	ug/L	ND	50	50	50.1	53.6	100	107	70-130	7				
Vinyl acetate	ug/L	ND	100	100	74.0	81.8	74	82	70-130	10				
Vinyl chloride	ug/L	ND	50	50	51.0	54.7	102	109	70-130	7				
1,2-Dichloroethane-d4 (S)	%						94	92	70-130					
4-Bromofluorobenzene (S)	%						102	102	70-130					
Toluene-d8 (S)	%						98	98	70-130					

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

QC Batch: MSV/27269

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV SC

Associated Lab Samples: 92205236028

METHOD BLANK: 1223980

Matrix: Water

Associated Lab Samples: 92205236028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/19/14 00:10	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/19/14 00:10	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/19/14 00:10	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	06/19/14 00:10	
1,1-Dichloroethane	ug/L	ND	5.0	06/19/14 00:10	
1,1-Dichloroethene	ug/L	ND	5.0	06/19/14 00:10	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/19/14 00:10	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/19/14 00:10	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	06/19/14 00:10	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/19/14 00:10	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/19/14 00:10	
1,2-Dichloroethane	ug/L	ND	5.0	06/19/14 00:10	
1,2-Dichloropropane	ug/L	ND	5.0	06/19/14 00:10	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/19/14 00:10	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/19/14 00:10	
2-Butanone (MEK)	ug/L	ND	10.0	06/19/14 00:10	
2-Hexanone	ug/L	ND	10.0	06/19/14 00:10	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/19/14 00:10	
Acetone	ug/L	ND	25.0	06/19/14 00:10	
Benzene	ug/L	ND	5.0	06/19/14 00:10	
Bromodichloromethane	ug/L	ND	5.0	06/19/14 00:10	
Bromoform	ug/L	ND	5.0	06/19/14 00:10	
Bromomethane	ug/L	ND	10.0	06/19/14 00:10	
Carbon disulfide	ug/L	ND	10.0	06/19/14 00:10	
Carbon tetrachloride	ug/L	ND	5.0	06/19/14 00:10	
Chlorobenzene	ug/L	ND	5.0	06/19/14 00:10	
Chloroethane	ug/L	ND	10.0	06/19/14 00:10	
Chloroform	ug/L	ND	5.0	06/19/14 00:10	
Chloromethane	ug/L	ND	5.0	06/19/14 00:10	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/19/14 00:10	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/19/14 00:10	
Cyclohexane	ug/L	ND	5.0	06/19/14 00:10	
Dibromochloromethane	ug/L	ND	5.0	06/19/14 00:10	
Dichlorodifluoromethane	ug/L	ND	5.0	06/19/14 00:10	
Ethylbenzene	ug/L	ND	5.0	06/19/14 00:10	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/19/14 00:10	
Methyl acetate	ug/L	ND	10.0	06/19/14 00:10	
Methyl-tert-butyl ether	ug/L	ND	5.0	06/19/14 00:10	
Methylcyclohexane	ug/L	ND	10.0	06/19/14 00:10	
Methylene Chloride	ug/L	ND	5.0	06/19/14 00:10	
Styrene	ug/L	ND	5.0	06/19/14 00:10	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

METHOD BLANK: 1223980

Matrix: Water

Associated Lab Samples: 92205236028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tetrachloroethene	ug/L	ND	5.0	06/19/14 00:10	
Toluene	ug/L	ND	5.0	06/19/14 00:10	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/19/14 00:10	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/19/14 00:10	
Trichloroethene	ug/L	ND	5.0	06/19/14 00:10	
Trichlorofluoromethane	ug/L	ND	10.0	06/19/14 00:10	
Vinyl acetate	ug/L	ND	10.0	06/19/14 00:10	
Vinyl chloride	ug/L	ND	5.0	06/19/14 00:10	
Xylene (Total)	ug/L	ND	10.0	06/19/14 00:10	
1,2-Dichloroethane-d4 (S)	%	91	70-130	06/19/14 00:10	
4-Bromofluorobenzene (S)	%	100	70-130	06/19/14 00:10	
Toluene-d8 (S)	%	95	70-130	06/19/14 00:10	

LABORATORY CONTROL SAMPLE: 1223981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	39.4	79	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	70-130	
1,1,2-Trichloroethane	ug/L	50	43.8	88	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	39.8	80	70-130	
1,1-Dichloroethane	ug/L	50	37.2	74	70-130	
1,1-Dichloroethene	ug/L	50	42.6	85	70-130	
1,2,3-Trichlorobenzene	ug/L	50	54.4	109	70-130	
1,2,4-Trichlorobenzene	ug/L	50	53.2	106	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	56.7	113	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	49.8	100	70-130	
1,2-Dichlorobenzene	ug/L	50	54.0	108	70-130	
1,2-Dichloroethane	ug/L	50	38.6	77	70-130	
1,2-Dichloropropane	ug/L	50	41.6	83	70-130	
1,3-Dichlorobenzene	ug/L	50	52.8	106	70-130	
1,4-Dichlorobenzene	ug/L	50	53.2	106	70-130	
2-Butanone (MEK)	ug/L	100	84.1	84	70-130	
2-Hexanone	ug/L	100	92.6	93	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	86.1	86	70-130	
Acetone	ug/L	100	79.7	80	70-130	
Benzene	ug/L	50	43.5	87	70-130	
Bromodichloromethane	ug/L	50	42.8	86	70-130	
Bromoform	ug/L	50	52.6	105	70-130	
Bromomethane	ug/L	50	34.7	69	70-130 L0	
Carbon disulfide	ug/L	50	38.5	77	70-130	
Carbon tetrachloride	ug/L	50	45.9	92	70-130	
Chlorobenzene	ug/L	50	47.3	95	70-130	
Chloroethane	ug/L	50	40.7	81	70-130	
Chloroform	ug/L	50	40.4	81	70-130	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

LABORATORY CONTROL SAMPLE: 1223981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	50	43.1	86	70-130	
cis-1,2-Dichloroethene	ug/L	50	39.1	78	70-130	
cis-1,3-Dichloropropene	ug/L	50	41.1	82	70-130	
Cyclohexane	ug/L	50	44.8	90	70-130	
Dibromochloromethane	ug/L	50	48.5	97	70-130	
Dichlorodifluoromethane	ug/L	50	51.1	102	70-130	
Ethylbenzene	ug/L	50	47.3	95	70-130	
Isopropylbenzene (Cumene)	ug/L	50	50.0	100	70-130	
Methyl acetate	ug/L	50	39.0	78	70-130	
Methyl-tert-butyl ether	ug/L	50	41.6	83	70-130	
Methylcyclohexane	ug/L	50	46.9	94	70-130	
Methylene Chloride	ug/L	50	37.9	76	70-130	
Styrene	ug/L	50	49.8	100	70-130	
Tetrachloroethene	ug/L	50	50.4	101	70-130	
Toluene	ug/L	50	41.9	84	70-130	
trans-1,2-Dichloroethene	ug/L	50	40.2	80	70-130	
trans-1,3-Dichloropropene	ug/L	50	39.5	79	70-130	
Trichloroethene	ug/L	50	43.0	86	70-130	
Trichlorofluoromethane	ug/L	50	45.3	91	70-130	
Vinyl acetate	ug/L	100	79.5	80	70-130	
Vinyl chloride	ug/L	50	47.6	95	70-130	
Xylene (Total)	ug/L	150	144	96	70-130	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1224951 1224952

Parameter	92205358004		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
1,1,1-Trichloroethane	ug/L	ND	50	50	57.6	58.0	115	116	70-130	1			
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	62.9	60.1	124	118	70-130	5			
1,1,2-Trichloroethane	ug/L	ND	50	50	57.8	57.5	116	115	70-130	1			
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	62.7	67.1	125	134	70-130	7	M0		
1,1-Dichloroethane	ug/L	ND	50	50	59.8	59.5	120	119	70-130	0			
1,1-Dichloroethene	ug/L	ND	50	50	51.1	48.7	102	97	70-130	5			
1,2,3-Trichlorobenzene	ug/L	ND	50	50	63.0	62.7	126	125	70-130	1			
1,2,4-Trichlorobenzene	ug/L	ND	50	50	61.4	60.4	123	121	70-130	2			
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	52.0	51.6	104	103	70-130	1			
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	60.0	59.0	120	118	70-130	2			
1,2-Dichlorobenzene	ug/L	ND	50	50	61.7	60.5	123	121	70-130	2			
1,2-Dichloroethane	ug/L	ND	50	50	54.4	55.7	109	111	70-130	2			
1,2-Dichloropropane	ug/L	ND	50	50	63.7	63.4	127	127	70-130	1			
1,3-Dichlorobenzene	ug/L	ND	50	50	59.5	58.5	119	117	70-130	2			
1,4-Dichlorobenzene	ug/L	ND	50	50	57.8	57.4	116	115	70-130	1			

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Parameter	92205358004		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec						
2-Butanone (MEK)	ug/L	ND	100	100	118	116	118	116	70-130	1				
2-Hexanone	ug/L	ND	100	100	125	122	125	122	70-130	2				
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	124	123	124	123	70-130	1				
Acetone	ug/L	ND	100	100	107	109	105	107	70-130	2				
Benzene	ug/L	ND	50	50	64.6	64.1	129	128	70-130	1				
Bromodichloromethane	ug/L	ND	50	50	57.9	58.7	116	117	70-130	1				
Bromoform	ug/L	ND	50	50	50.2	50.4	100	101	70-130	0				
Bromomethane	ug/L	ND	50	50	48.9	52.4	98	105	70-130	7				
Carbon disulfide	ug/L	ND	50	50	55.6	57.8	111	116	70-130	4				
Carbon tetrachloride	ug/L	ND	50	50	58.4	60.6	117	121	70-130	4				
Chlorobenzene	ug/L	ND	50	50	57.1	56.2	114	112	70-130	2				
Chloroethane	ug/L	ND	50	50	43.9	48.1	88	96	70-130	9				
Chloroform	ug/L	ND	50	50	59.6	58.6	119	117	70-130	2				
Chloromethane	ug/L	ND	50	50	67.2	71.4	134	143	70-130	6 M0				
cis-1,2-Dichloroethene	ug/L	ND	50	50	62.7	60.1	125	120	70-130	4				
cis-1,3-Dichloropropene	ug/L	ND	50	50	53.0	53.3	106	107	70-130	1				
Cyclohexane	ug/L	ND	50	50	94.4	87.8	189	176	70-130	7 M0				
Dibromochloromethane	ug/L	ND	50	50	49.6	50.3	99	101	70-130	1				
Dichlorodifluoromethane	ug/L	ND	50	50	81.3	83.7	163	167	70-130	3 M0				
Ethylbenzene	ug/L	ND	50	50	57.4	56.5	115	113	70-130	2				
Isopropylbenzene (Cumene)	ug/L	ND	50	50	61.4	60.3	123	121	70-130	2				
Methyl acetate	ug/L	ND	50	50	67.2	62.8	134	126	70-130	7 M0				
Methyl-tert-butyl ether	ug/L	ND	50	50	60.5	61.2	121	122	70-130	1				
Methylcyclohexane	ug/L	ND	50	50	84.6	82.7	169	165	70-130	2 M0				
Methylene Chloride	ug/L	ND	50	50	57.6	58.5	115	117	70-130	1				
Styrene	ug/L	ND	50	50	63.3	62.5	127	125	70-130	1				
Tetrachloroethene	ug/L	9.0	50	50	69.7	68.6	121	119	70-130	2				
Toluene	ug/L	ND	50	50	57.1	56.1	114	112	70-130	2				
trans-1,2-Dichloroethene	ug/L	ND	50	50	64.9	65.6	130	131	70-130	1 M0				
trans-1,3-Dichloropropene	ug/L	ND	50	50	49.8	50.6	100	101	70-130	2				
Trichloroethene	ug/L	ND	50	50	60.3	59.5	120	118	70-130	1				
Trichlorofluoromethane	ug/L	ND	50	50	53.3	56.4	107	113	70-130	6				
Vinyl acetate	ug/L	ND	100	100	126	126	126	126	70-130	1				
Vinyl chloride	ug/L	ND	50	50	64.8	67.3	130	135	70-130	4 M0				
1,2-Dichloroethane-d4 (S)	%						103	101	70-130					
4-Bromofluorobenzene (S)	%						97	98	70-130					
Toluene-d8 (S)	%						99	100	70-130					

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG  
Pace Project No.: 92205236

QC Batch: MSV/27277 Analysis Method: EPA 8260B Mod.  
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM  
Associated Lab Samples: 92205236001, 92205236004, 92205236005, 92205236006

METHOD BLANK: 1225102 Matrix: Water  
Associated Lab Samples: 92205236001, 92205236004, 92205236005, 92205236006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/20/14 15:52	
1,2-Dichloroethane-d4 (S)	%	105	50-150	06/20/14 15:52	
Toluene-d8 (S)	%	99	50-150	06/20/14 15:52	

LABORATORY CONTROL SAMPLE: 1225103

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	22.5	112	71-125	
1,2-Dichloroethane-d4 (S)	%			92	50-150	
Toluene-d8 (S)	%			101	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1226933 1226934

Parameter	Units	92205236005		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Result	Result	% Rec	Result	% Rec					
1,4-Dioxane (p-Dioxane)	ug/L	2.2	20	20	56.1	73.4	270	356	50-150	27	R1			
1,2-Dichloroethane-d4 (S)	%						108	103	50-150					
Toluene-d8 (S)	%						96	96	50-150					

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

QC Batch:	MSV/27278	Analysis Method:	EPA 8260B Mod.
QC Batch Method:	EPA 8260B Mod.	Analysis Description:	8260 MSV SIM
Associated Lab Samples:	92205236009		

METHOD BLANK: 1225106 Matrix: Water

Associated Lab Samples: 92205236009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/20/14 15:31	
1,2-Dichloroethane-d4 (S)	%	100	50-150	06/20/14 15:31	
Toluene-d8 (S)	%	99	50-150	06/20/14 15:31	

LABORATORY CONTROL SAMPLE: 1225107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	24.3	122	71-125	
1,2-Dichloroethane-d4 (S)	%			104	50-150	
Toluene-d8 (S)	%			100	50-150	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG  
Pace Project No.: 92205236

QC Batch: MSV/27307 Analysis Method: EPA 8260B Mod.  
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM  
Associated Lab Samples: 92205236010, 92205236011, 92205236012, 92205236015, 92205236016, 92205236017, 92205236020, 92205236021, 92205236022, 92205236024, 92205236025, 92205236027

METHOD BLANK: 1226941 Matrix: Water  
Associated Lab Samples: 92205236010, 92205236011, 92205236012, 92205236015, 92205236016, 92205236017, 92205236020, 92205236021, 92205236022, 92205236024, 92205236025, 92205236027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/22/14 13:43	
1,2-Dichloroethane-d4 (S)	%	93	50-150	06/22/14 13:43	
Toluene-d8 (S)	%	97	50-150	06/22/14 13:43	

LABORATORY CONTROL SAMPLE: 1226942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	22.3	111	71-125	
1,2-Dichloroethane-d4 (S)	%			102	50-150	
Toluene-d8 (S)	%			97	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1227115 1227116

Parameter	Units	92205236022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	21.3	24.3	107	121	50-150	13	
1,2-Dichloroethane-d4 (S)	%						102	97	50-150		
Toluene-d8 (S)	%						93	93	50-150		

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

QC Batch:	OEXT/28301	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water MSSV
Associated Lab Samples:	92205236024		

METHOD BLANK: 1222225 Matrix: Water

Associated Lab Samples: 92205236024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Biphenyl (Diphenyl)	ug/L	ND	10.0	06/23/14 20:59	
Diphenyl ether (Phenyl ether)	ug/L	ND	10.0	06/23/14 20:59	
2-Fluorobiphenyl (S)	%	37	27-110	06/23/14 20:59	
Nitrobenzene-d5 (S)	%	26	21-110	06/23/14 20:59	
Terphenyl-d14 (S)	%	36	31-107	06/23/14 20:59	

LABORATORY CONTROL SAMPLE: 1222226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Biphenyl (Diphenyl)	ug/L	50	25.1	50	38-120	
Diphenyl ether (Phenyl ether)	ug/L	50	23.7	47	51-120	L2
2-Fluorobiphenyl (S)	%			47	27-110	
Nitrobenzene-d5 (S)	%			36	21-110	
Terphenyl-d14 (S)	%			59	31-107	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG  
Pace Project No.: 92205236

QC Batch: OEXT/28330      Analysis Method: EPA 8270  
QC Batch Method: EPA 3510      Analysis Description: 8270 Water MSSV  
Associated Lab Samples: 92205236006

METHOD BLANK: 1223421      Matrix: Water  
Associated Lab Samples: 92205236006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Biphenyl (Diphenyl)	ug/L	ND	10.0	06/19/14 23:02	
Diphenyl ether (Phenyl ether)	ug/L	ND	10.0	06/19/14 23:02	
2-Fluorobiphenyl (S)	%	60	27-110	06/19/14 23:02	
Nitrobenzene-d5 (S)	%	55	21-110	06/19/14 23:02	
Terphenyl-d14 (S)	%	73	31-107	06/19/14 23:02	

LABORATORY CONTROL SAMPLE & LCSD: 1223422

Parameter	Units	1223423					% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
Biphenyl (Diphenyl)	ug/L	50	11.4	10.2	23	20	38-120	12	30	L0
Diphenyl ether (Phenyl ether)	ug/L	50	10.7	9.9J	21	20	51-120		30	L0
2-Fluorobiphenyl (S)	%				21	18	27-110			S0
Nitrobenzene-d5 (S)	%				20	15	21-110			S0
Terphenyl-d14 (S)	%				70	64	31-107			

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG  
Pace Project No.: 92205236

QC Batch: OEXT/28455 Analysis Method: EPA 8270  
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV  
Associated Lab Samples: 92205236027

METHOD BLANK: 1227341 Matrix: Water  
Associated Lab Samples: 92205236027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Biphenyl (Diphenyl)	ug/L	ND	10.0	06/25/14 12:31	
Diphenyl ether (Phenyl ether)	ug/L	ND	10.0	06/25/14 12:31	
2-Fluorobiphenyl (S)	%	81	27-110	06/25/14 12:31	
Nitrobenzene-d5 (S)	%	68	21-110	06/25/14 12:31	
Terphenyl-d14 (S)	%	94	31-107	06/25/14 12:31	

LABORATORY CONTROL SAMPLE & LCSD: 1227342

Parameter	Units	1227343							RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits				
Biphenyl (Diphenyl)	ug/L	50	43.7	38.1	87	76	38-120	14	30		
Diphenyl ether (Phenyl ether)	ug/L	50	41.2	35.8	82	72	51-120	14	30		
2-Fluorobiphenyl (S)	%				85	72	27-110				
Nitrobenzene-d5 (S)	%				61	53	21-110				
Terphenyl-d14 (S)	%				88	85	31-107				

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

QC Batch:	OEXT/28482	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water MSSV
Associated Lab Samples:	92205236005, 92205236009, 92205236010, 92205236012, 92205236016, 92205236017, 92205236020, 92205236021, 92205236025		

METHOD BLANK:	1228205	Matrix:	Water
Associated Lab Samples:	92205236005, 92205236009, 92205236010, 92205236012, 92205236016, 92205236017, 92205236020, 92205236021, 92205236025		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Biphenyl (Diphenyl)	ug/L	ND	10.0	06/26/14 13:06	
Diphenyl ether (Phenyl ether)	ug/L	ND	10.0	06/26/14 13:06	
2-Fluorobiphenyl (S)	%	84	27-110	06/26/14 13:06	
Nitrobenzene-d5 (S)	%	90	21-110	06/26/14 13:06	
Terphenyl-d14 (S)	%	85	31-107	06/26/14 13:06	

LABORATORY CONTROL SAMPLE: 1228206

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Biphenyl (Diphenyl)	ug/L	50	41.2	82	38-120	
Diphenyl ether (Phenyl ether)	ug/L	50	43.6	87	51-120	
2-Fluorobiphenyl (S)	%			83	27-110	
Nitrobenzene-d5 (S)	%			76	21-110	
Terphenyl-d14 (S)	%			88	31-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1228207 1228208

Parameter	Units	92205025019		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Biphenyl (Diphenyl)	ug/L	ND	100	100	79.3	60.9	79	61	50-150	26		
Diphenyl ether (Phenyl ether)	ug/L	ND	100	100	90.0	68.4	90	68	50-150	27		
2-Fluorobiphenyl (S)	%						82	61	27-110			
Nitrobenzene-d5 (S)	%						78	57	21-110			
Terphenyl-d14 (S)	%						71	85	31-107			

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG  
Pace Project No.: 92205236

QC Batch: WET/31618 Analysis Method: SM 2320B  
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
Associated Lab Samples: 92205236001, 92205236002, 92205236003, 92205236005, 92205236006, 92205236007, 92205236008, 92205236009, 92205236010

METHOD BLANK: 1222898 Matrix: Water  
Associated Lab Samples: 92205236001, 92205236002, 92205236003, 92205236005, 92205236006, 92205236007, 92205236008, 92205236009, 92205236010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	06/17/14 15:31	

LABORATORY CONTROL SAMPLE: 1222899

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	47.7	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222900 1222901

Parameter	Units	92205025018		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	Spike Conc.	Result	MS Result	MSD Result	% Rec	% Rec			
Alkalinity, Total as CaCO3	mg/L	103	50	50	151	147	96	87	75-125	3		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222902 1222903

Parameter	Units	92205025040		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	Spike Conc.	Result	MS Result	MSD Result	% Rec	% Rec			
Alkalinity, Total as CaCO3	mg/L	103	50	50	143	142	80	77	75-125	1		

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG  
Pace Project No.: 92205236

QC Batch: WET/31634 Analysis Method: SM 2320B  
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
Associated Lab Samples: 92205236011, 92205236012, 92205236013, 92205236014, 92205236015, 92205236016, 92205236017, 92205236018, 92205236019, 92205236020, 92205236021, 92205236022, 92205236023

METHOD BLANK: 1223466 Matrix: Water  
Associated Lab Samples: 92205236011, 92205236012, 92205236013, 92205236014, 92205236015, 92205236016, 92205236017, 92205236018, 92205236019, 92205236020, 92205236021, 92205236022, 92205236023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	06/18/14 10:49	

LABORATORY CONTROL SAMPLE: 1223467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	47.2	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1223468 1223469

Parameter	Units	92205613001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Alkalinity, Total as CaCO3	mg/L	8.1	50	50	52.4	51.2	89	86	75-125	2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1223470 1223471

Parameter	Units	92205613002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Alkalinity, Total as CaCO3	mg/L	7.5	50	50	56.2	55.0	97	95	75-125	2	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

QC Batch: WET/31595 Analysis Method: SM 4500-S2D  
 QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water  
 Associated Lab Samples: 92205236001, 92205236002, 92205236003, 92205236005, 92205236006, 92205236007, 92205236008

METHOD BLANK: 1222259 Matrix: Water  
 Associated Lab Samples: 92205236001, 92205236002, 92205236003, 92205236005, 92205236006, 92205236007, 92205236008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/18/14 15:21	

LABORATORY CONTROL SAMPLE: 1222260

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.50	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222263 1222264

Parameter	Units	92205025039 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.							
Sulfide	mg/L	ND	.5	.5	0.49	0.49	97	97	75-125	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222563 1222564

Parameter	Units	92204938002 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.							
Sulfide	mg/L	ND	.5	.5	0.50	0.50	99	99	75-125	0	

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

QC Batch:	WET/31651	Analysis Method:	SM 4500-S2D
QC Batch Method:	SM 4500-S2D	Analysis Description:	4500S2D Sulfide Water
Associated Lab Samples:	92205236009, 92205236010, 92205236011, 92205236012, 92205236013, 92205236014, 92205236015, 92205236016, 92205236017, 92205236018, 92205236019, 92205236020, 92205236021, 92205236022, 92205236023		

METHOD BLANK:	1224324	Matrix:	Water
Associated Lab Samples:	92205236009, 92205236010, 92205236011, 92205236012, 92205236013, 92205236014, 92205236015, 92205236016, 92205236017, 92205236018, 92205236019, 92205236020, 92205236021, 92205236022, 92205236023		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/19/14 15:03	

LABORATORY CONTROL SAMPLE:	1224325
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Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.52	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	1224326			1224327
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Parameter	Units	92205236009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.43	0.43	86	86	75-125	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	1224328			1224329
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Parameter	Units	92205236019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.50	0.50	100	100	75-125	0	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

QC Batch:	WETA/19411	Analysis Method:	EPA 365.1
QC Batch Method:	EPA 365.1	Analysis Description:	365.1 Orthophosphate as P
Associated Lab Samples:	92205236007, 92205236008, 92205236009, 92205236010, 92205236011, 92205236012, 92205236013, 92205236014, 92205236015, 92205236016, 92205236017, 92205236018, 92205236019, 92205236020, 92205236021, 92205236022, 92205236023		

METHOD BLANK:	1228212	Matrix:	Water
Associated Lab Samples:	92205236007, 92205236008, 92205236009, 92205236010, 92205236011, 92205236012, 92205236013, 92205236014, 92205236015, 92205236016, 92205236017, 92205236018, 92205236019, 92205236020, 92205236021, 92205236022, 92205236023		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.050	06/24/14 16:49	

LABORATORY CONTROL SAMPLE: 1228213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	.25	0.27	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1228214 1228215

Parameter	Units	92205236007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Orthophosphate as P	mg/L	ND	.25	.25	0.34	0.29	120	100	90-110	15	H5,M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1228216 1228217

Parameter	Units	92205236019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Orthophosphate as P	mg/L	0.050	.25	.25	0.30	0.31	98	103	90-110	4	H5

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

PASI-G Pace Analytical Services - Greenwood

### ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

H5 Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92205236001	RW-119	EPA 9056A	GWD/1339		
92205236002	EW-50	EPA 9056A	GWD/1339		
92205236003	RW-129	EPA 9056A	GWD/1339		
92205236005	MW-99	EPA 9056A	GWD/1339		
92205236006	EW-52	EPA 9056A	GWD/1339		
92205236007	MW-130	EPA 9056A	GWD/1361		
92205236008	EW-36	EPA 9056A	GWD/1361		
92205236009	EW-53	EPA 9056A	GWD/1361		
92205236010	DW-5	EPA 9056A	GWD/1361		
92205236011	EW-41	EPA 9056A	GWD/1361		
92205236012	RW-65	EPA 9056A	GWD/1361		
92205236013	EW-39	EPA 9056A	GWD/1361		
92205236014	RW-47	EPA 9056A	GWD/1361		
92205236015	EW-31	EPA 9056A	GWD/1361		
92205236016	RW-29	EPA 9056A	GWD/1361		
92205236017	DW-6	EPA 9056A	GWD/1361		
92205236018	MW-46	EPA 9056A	GWD/1361		
92205236019	EW-30	EPA 9056A	GWD/1361		
92205236020	MW-103	EPA 9056A	GWD/1361		
92205236021	RW-48	EPA 9056A	GWD/1361		
92205236022	EW-37	EPA 9056A	GWD/1361		
92205236023	MW-45	EPA 9056A	GWD/1361		
92205236001	RW-119	EPA 9060A	GWD/1372		
92205236002	EW-50	EPA 9060A	GWD/1372		
92205236003	RW-129	EPA 9060A	GWD/1372		
92205236005	MW-99	EPA 9060A	GWD/1372		
92205236006	EW-52	EPA 9060A	GWD/1372		
92205236007	MW-130	EPA 9060A	GWD/1372		
92205236008	EW-36	EPA 9060A	GWD/1372		
92205236009	EW-53	EPA 9060A	GWD/1372		
92205236010	DW-5	EPA 9060A	GWD/1372		
92205236011	EW-41	EPA 9060A	GWD/1372		
92205236012	RW-65	EPA 9060A	GWD/1373		
92205236013	EW-39	EPA 9060A	GWD/1373		
92205236014	RW-47	EPA 9060A	GWD/1373		
92205236015	EW-31	EPA 9060A	GWD/1373		
92205236016	RW-29	EPA 9060A	GWD/1373		
92205236017	DW-6	EPA 9060A	GWD/1373		
92205236018	MW-46	EPA 9060A	GWD/1373		
92205236019	EW-30	EPA 9060A	GWD/1373		
92205236020	MW-103	EPA 9060A	GWD/1373		
92205236021	RW-48	EPA 9060A	GWD/1373		
92205236022	EW-37	EPA 9060A	GWD/1374		
92205236023	MW-45	EPA 9060A	GWD/1374		
92205236001	RW-119	EPA 3010	MPRP/16225	EPA 6010	ICP/14664
92205236002	EW-50	EPA 3010	MPRP/16225	EPA 6010	ICP/14664

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92205236003	RW-129	EPA 3010	MPRP/16225	EPA 6010	ICP/14664
92205236005	MW-99	EPA 3010	MPRP/16225	EPA 6010	ICP/14664
92205236006	EW-52	EPA 3010	MPRP/16225	EPA 6010	ICP/14664
92205236007	MW-130	EPA 3010	MPRP/16225	EPA 6010	ICP/14664
92205236008	EW-36	EPA 3010	MPRP/16225	EPA 6010	ICP/14664
92205236009	EW-53	EPA 3010	MPRP/16225	EPA 6010	ICP/14664
92205236010	DW-5	EPA 3010	MPRP/16225	EPA 6010	ICP/14664
92205236011	EW-41	EPA 3010	MPRP/16225	EPA 6010	ICP/14664
92205236012	RW-65	EPA 3010	MPRP/16225	EPA 6010	ICP/14664
92205236013	EW-39	EPA 3010	MPRP/16225	EPA 6010	ICP/14664
92205236014	RW-47	EPA 3010	MPRP/16225	EPA 6010	ICP/14664
92205236015	EW-31	EPA 3010	MPRP/16225	EPA 6010	ICP/14664
92205236016	RW-29	EPA 3010	MPRP/16225	EPA 6010	ICP/14664
92205236017	DW-6	EPA 3010	MPRP/16225	EPA 6010	ICP/14664
92205236018	MW-46	EPA 3010	MPRP/16225	EPA 6010	ICP/14664
92205236019	EW-30	EPA 3010	MPRP/16225	EPA 6010	ICP/14664
92205236020	MW-103	EPA 3010	MPRP/16225	EPA 6010	ICP/14664
92205236021	RW-48	EPA 3010	MPRP/16225	EPA 6010	ICP/14664
92205236022	EW-37	EPA 3010	MPRP/16226	EPA 6010	ICP/14665
92205236023	MW-45	EPA 3010	MPRP/16226	EPA 6010	ICP/14665
92205236005	MW-99	EPA 3510	OEXT/28482	EPA 8270	MSSV/9309
92205236006	EW-52	EPA 3510	OEXT/28330	EPA 8270	MSSV/9267
92205236009	EW-53	EPA 3510	OEXT/28482	EPA 8270	MSSV/9309
92205236010	DW-5	EPA 3510	OEXT/28482	EPA 8270	MSSV/9309
92205236012	RW-65	EPA 3510	OEXT/28482	EPA 8270	MSSV/9309
92205236016	RW-29	EPA 3510	OEXT/28482	EPA 8270	MSSV/9309
92205236017	DW-6	EPA 3510	OEXT/28482	EPA 8270	MSSV/9309
92205236020	MW-103	EPA 3510	OEXT/28482	EPA 8270	MSSV/9309
92205236021	RW-48	EPA 3510	OEXT/28482	EPA 8270	MSSV/9309
92205236024	EW-43	EPA 3510	OEXT/28301	EPA 8270	MSSV/9285
92205236025	EW-28	EPA 3510	OEXT/28482	EPA 8270	MSSV/9309
92205236027	EW-02	EPA 3510	OEXT/28455	EPA 8270	MSSV/9293
92205236001	RW-119	EPA 8260	MSV/27254		
92205236002	EW-50	EPA 8260	MSV/27236		
92205236003	RW-129	EPA 8260	MSV/27251		
92205236004	MW-98	EPA 8260	MSV/27254		
92205236005	MW-99	EPA 8260	MSV/27254		
92205236006	EW-52	EPA 8260	MSV/27254		
92205236007	MW-130	EPA 8260	MSV/27254		
92205236008	EW-36	EPA 8260	MSV/27254		
92205236009	EW-53	EPA 8260	MSV/27254		
92205236010	DW-5	EPA 8260	MSV/27254		
92205236011	EW-41	EPA 8260	MSV/27254		

### REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CNA/SPARTANBURG  
Pace Project No.: 92205236

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92205236012	RW-65	EPA 8260	MSV/27254		
92205236013	EW-39	EPA 8260	MSV/27254		
92205236014	RW-47	EPA 8260	MSV/27254		
92205236016	RW-29	EPA 8260	MSV/27254		
92205236017	DW-6	EPA 8260	MSV/27254		
92205236018	MW-46	EPA 8260	MSV/27254		
92205236019	EW-30	EPA 8260	MSV/27254		
92205236020	MW-103	EPA 8260	MSV/27254		
92205236021	RW-48	EPA 8260	MSV/27254		
92205236022	EW-37	EPA 8260	MSV/27254		
92205236023	MW-45	EPA 8260	MSV/27254		
92205236028	TRIP BLANK03	EPA 8260	MSV/27269		
92205236001	RW-119	EPA 8260B Mod.	MSV/27277		
92205236004	MW-98	EPA 8260B Mod.	MSV/27277		
92205236005	MW-99	EPA 8260B Mod.	MSV/27277		
92205236006	EW-52	EPA 8260B Mod.	MSV/27277		
92205236009	EW-53	EPA 8260B Mod.	MSV/27278		
92205236010	DW-5	EPA 8260B Mod.	MSV/27307		
92205236011	EW-41	EPA 8260B Mod.	MSV/27307		
92205236012	RW-65	EPA 8260B Mod.	MSV/27307		
92205236015	EW-31	EPA 8260B Mod.	MSV/27307		
92205236016	RW-29	EPA 8260B Mod.	MSV/27307		
92205236017	DW-6	EPA 8260B Mod.	MSV/27307		
92205236020	MW-103	EPA 8260B Mod.	MSV/27307		
92205236021	RW-48	EPA 8260B Mod.	MSV/27307		
92205236022	EW-37	EPA 8260B Mod.	MSV/27307		
92205236024	EW-43	EPA 8260B Mod.	MSV/27307		
92205236025	EW-28	EPA 8260B Mod.	MSV/27307		
92205236027	EW-02	EPA 8260B Mod.	MSV/27307		
92205236001	RW-119	SM 2320B	WET/31618		
92205236002	EW-50	SM 2320B	WET/31618		
92205236003	RW-129	SM 2320B	WET/31618		
92205236005	MW-99	SM 2320B	WET/31618		
92205236006	EW-52	SM 2320B	WET/31618		
92205236007	MW-130	SM 2320B	WET/31618		
92205236008	EW-36	SM 2320B	WET/31618		
92205236009	EW-53	SM 2320B	WET/31618		
92205236010	DW-5	SM 2320B	WET/31618		
92205236011	EW-41	SM 2320B	WET/31634		
92205236012	RW-65	SM 2320B	WET/31634		
92205236013	EW-39	SM 2320B	WET/31634		
92205236014	RW-47	SM 2320B	WET/31634		
92205236015	EW-31	SM 2320B	WET/31634		
92205236016	RW-29	SM 2320B	WET/31634		
92205236017	DW-6	SM 2320B	WET/31634		
92205236018	MW-46	SM 2320B	WET/31634		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CNA/SPARTANBURG

Pace Project No.: 92205236

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92205236019	EW-30	SM 2320B	WET/31634		
92205236020	MW-103	SM 2320B	WET/31634		
92205236021	RW-48	SM 2320B	WET/31634		
92205236022	EW-37	SM 2320B	WET/31634		
92205236023	MW-45	SM 2320B	WET/31634		
92205236001	RW-119	SM 4500-S2D	WET/31595		
92205236002	EW-50	SM 4500-S2D	WET/31595		
92205236003	RW-129	SM 4500-S2D	WET/31595		
92205236005	MW-99	SM 4500-S2D	WET/31595		
92205236006	EW-52	SM 4500-S2D	WET/31595		
92205236007	MW-130	SM 4500-S2D	WET/31595		
92205236008	EW-36	SM 4500-S2D	WET/31595		
92205236009	EW-53	SM 4500-S2D	WET/31651		
92205236010	DW-5	SM 4500-S2D	WET/31651		
92205236011	EW-41	SM 4500-S2D	WET/31651		
92205236012	RW-65	SM 4500-S2D	WET/31651		
92205236013	EW-39	SM 4500-S2D	WET/31651		
92205236014	RW-47	SM 4500-S2D	WET/31651		
92205236015	EW-31	SM 4500-S2D	WET/31651		
92205236016	RW-29	SM 4500-S2D	WET/31651		
92205236017	DW-6	SM 4500-S2D	WET/31651		
92205236018	MW-46	SM 4500-S2D	WET/31651		
92205236019	EW-30	SM 4500-S2D	WET/31651		
92205236020	MW-103	SM 4500-S2D	WET/31651		
92205236021	RW-48	SM 4500-S2D	WET/31651		
92205236022	EW-37	SM 4500-S2D	WET/31651		
92205236023	MW-45	SM 4500-S2D	WET/31651		
92205236007	MW-130	EPA 365.1	WETA/19411		
92205236008	EW-36	EPA 365.1	WETA/19411		
92205236009	EW-53	EPA 365.1	WETA/19411		
92205236010	DW-5	EPA 365.1	WETA/19411		
92205236011	EW-41	EPA 365.1	WETA/19411		
92205236012	RW-65	EPA 365.1	WETA/19411		
92205236013	EW-39	EPA 365.1	WETA/19411		
92205236014	RW-47	EPA 365.1	WETA/19411		
92205236015	EW-31	EPA 365.1	WETA/19411		
92205236016	RW-29	EPA 365.1	WETA/19411		
92205236017	DW-6	EPA 365.1	WETA/19411		
92205236018	MW-46	EPA 365.1	WETA/19411		
92205236019	EW-30	EPA 365.1	WETA/19411		
92205236020	MW-103	EPA 365.1	WETA/19411		
92205236021	RW-48	EPA 365.1	WETA/19411		
92205236022	EW-37	EPA 365.1	WETA/19411		
92205236023	MW-45	EPA 365.1	WETA/19411		

### REPORT OF LABORATORY ANALYSIS

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Document Name:  
**Sample Condition Upon Receipt (SCUR)**  
 Document Number:  
**F-GWD-QA-015-Rev00**

Document Revised: February 6, 2014  
 Page 1 of 2  
 Issuing Authority:  
 Pace Greenwood Quality Office

1 OF 3

Client Name: AE COM

Where Received:  Greenwood  Asheville  Eden  Raleigh  Huntersville

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used: IR Gun TH-72 Type of Ice:  Wet  Blue  None  Samples on Ice, cooling process has begun

Temp Correction Factor TH-72:  Add  Subtract (circle) 0.4 deg C

Corrected Cooler Temp.: 5.4 C  
 Temp should be above freezing to 6°C

Biological Tissue is Frozen: Yes No  N/A

Date and Initials of person examining contents: M 6.13.14

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>orthophosphate</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>H2O</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, colform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Samples checked for dechlorination:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Field Data Required? Y 1 N

Client Notification/ Resolution:

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: EW-43 6/12/14 @ 16:25 listed on COC twice canceled sample # 026.K6.

SCURF Review: [Signature] Date: 6/12/14  
 SRF Review: [Signature] Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

**WO# : 92205236**

92205236





**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: <b>Arcem</b>	Report To: <b>Bryon Dalrymple</b>	Attention: <b>Bryon Dalrymple</b>	Company Name: <b>Arcem</b>	Address:	REGULATORY AGENCY
Address: <b>1500 Redtree St NE</b>	Copy To:	Reference: <b>Sample</b>	Pace Date:	<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER	<input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER
City: <b>Atlanta GA 30309</b>	Purchase Order No.:	Pace Project Manager:	Pace Profile #:	Site Location STATE: <b>SC</b>	
Phone: <b>404-965-9657</b>	Project Name: <b>CNAI Spartanburg</b>				
Fax:	Project Number:				
Requested Due Date/TAT:					

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	Matrix Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)			
						DATE	TIME			DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl			NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol
1	TID Bank 03								2											
2	EW-28					6/12/14	1635		3											
3	EW-43					6/12/14	1625		3											
4	EW-02					6/12/14	1720		5											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>[Signature]</i>	6/12/14		<i>[Signature]</i>	6/12/14	19:30	Y N Y

Temp in °C: \_\_\_\_\_ Received on Ice (Y/N): \_\_\_\_\_ Custody Sealed Cooler (Y/N): \_\_\_\_\_ Samples Intact (Y/N): \_\_\_\_\_

SPARTANBURG

5/9/14

CNA

MON.

TASK: ANNUAL GW SAMPLING

TECH: JC, AH, PL, DH (ZFM)

TEMP: SUNNY 80'S

0900 - arrived at the site, check in wind gauge at the well.

0900 - Calibrate all meters, tailgate safety meeting.

1030 - remove badges + set up for low flow GW sampling.

1110 - Pace did not send the right bottle for low flow - we will stand on wells that don't have it. Pace will send arrival next day to get short labels.

1340 - stand GW sampling

1500 - took MS/MSD on MW-128, had problem with 12 VDC pump.

1530 - took DUP on MW-136 (DW-1 @ 1530)

\* - Pace did not combine parameters into (1) letter bottle like Lewis + Friday + did not send pre-printed labels on COC'S. This will take considerable more time to fill out all the extra labels.

- took MS/MSD on MW-128 + RW-137

- took DUP on MW-136

Pace - finish up completion + deposit site

SPARTANBURG

6/10/14

CNA

TUE

TASK: AGLW SAMPLING

TECH: JC, AH, PL, DH (ZFM)

TEMP: SUNNY 80'S

0700 - arrived at the site, tailgate meeting Calibrate meters + fill out work permit

0730 - taking safety class since our permit expire end of the week.

0810 - set up for low flow GW sampling

0835 - stand

\* - took MS/MSD on MW-83A + SW-12

1100 - all tailing on plant side rubble was removed by someone since last count, left to buy replacement tubing.

1544 - took DUP on RW-85 (DW-2 @ 1500)

1600 - packing up samples + filling out COC

1630 - took DUP on MW-114 (DW-3 @ 1700)

1700 - removed work permit at plant side

1720 - packing up samples, Pace picked up all samples up to 1630 today.

1930 - done for the day

~~6/10/14~~

SPARTANBURG

CNA

6/11/14

WED

TASK: AGLW SAMPLING

TECH: JL, AH, RL, PH (EFM)

TEMP: sunny/90'S

0700 - arrived at the site, safety meeting, fill out work permit & calibrate all meters.

0730 - AH to take SW samples today.

0730 - resume low flow GW sampling.

0935 - took RUP on RW-12 (DW-4 @ 2000').

1000 - took MS/MSD on SW-9 & SW-11

~~took RUP on (DW-5 @ )~~

1200 - the road & all wells to the offsite area are overgrown & need mowed & weed control. Jamie said they don't maintain these areas anymore.

1400 - RW19 went dry, will let well recharge overnight then take sample.

1720 - packing up samples

1730 - sent out all samples with Pace courier

1900 - done for the day

1915 - depart site

JL 6/11/14

SPARTANBURG

CNA

6/12/14

THUR

TASK: AGLW SAMPLING

TECH: JL, AH, RL, DH (EFM)

TEMP: Cloudy / RAIN 80'S

0530 - arrived at site, fill out work order col. meters.

0700 - took RW119 sample

0800 - bottle count, collect Pace about

literally needed, we will not sample any NA wells to renew due to short rolling times.

1000 - took RUP on EW-53 (DW-5 @ 1800)

1400 - took RUP on RW-29 (DW-6 @ 2000)

1720 - packing up samples

1800 - handed over samples to PACE

1830 - done for the day

6/13/14

Friday 80'S

0700 - arrived at the site, col meters, work permit

0735 - resume low flow GW sampling.

1030 - finished for this week, packing up

samples & equipment.

1210 - left samples for Pace to pick up;

day ended around 1300.

JL 6/13/14



SPARTANBURG

6/17/14

CWA

TUE,

TASK: SEW SAMPLING

TECH: JK, RL, DH (EFM)

TEMP: SUNNY 90°

0710 - arrived at the site, calibrate all meters and fill out work permit.

0800 - resume low flow GW sampling

0820 - took FB-01 next to MW-107

1040 - took EB-01 on 1200 pump after using it on EW-40.

1155 - cutting back trees along road to EW's drug river.

1500 - filling out COC's + packing up samples. Pace called + said they would be here at 1730.

1730 - Pace arrived and picked up samples + extra coles, Fe<sup>2+</sup> kits.

1800 - depart site

~~JK 6/17/14~~

SPARTANBURG

6/18/14

CWA

WED

TASK: SEW SAMPLING

TECH: JL (EFM)

TEMP: sunny 90's

0700 - arrived at the site, fill out work permit.

0715 - calibrate meter & set up for low flow

0730 - GW sampling - "

0738 - resume "

1140 - finished sampling all wells, packing

up samples & filling out COC.

1200 - packing up equipment & cleaning up.

1220 - left samples + COC for fax to pick

up this afternoon.

1245 - depart site

~~J.L. 6/18/14~~

# EQUIPMENT CALIBRATION FORM

Client: CNA Holdings Project #: Auriga Polymers, Inc

INSTRUMENT: YSI<sup>576</sup>, Hach 2100Q

SERIAL NO.: 10H100472, 09120C

Date	Time	Parameter	Calibration Reading	Calibration Recorded By JZ
6/9/14	1120	pH	4.00	Lot# 2AK644 Exp: 9/2014
			7.00	Lot# 2AL203 Exp: 12/2014
			10.00	Lot# 2AJ108 Exp: 10/2014
1/1	1132	Specific Conductivity	1,413 uS	Lot# 2AE324 Exp: 10/2014
1/1	1140	ORP	240 MV	5587 2/2018
1/1	1148	Dissolved Oxygen	7.66 %	NA
N/A	1200	Turbidity	0, 1, 10	NA
NA	NA	Temperature	NA	NA
NA	NA	Ambient Air Pressure	NA	NA
NA	NA	NA	NA	NA

INSTRUMENT: YSI<sup>576</sup>, Hach DR870

SERIAL NO.: 10J10413, 31559, 04250

Date	Time	Parameter	Calibration Reading	Calibration Recorded By JZ
6/9/14	1120	pH	4.00	Lot# 2AK644 Exp: 9/2014
			7.00	Lot# 2AL203 Exp: 12/2014
			10.00	Lot# 2AJ108 Exp: 10/2014
1/1	1132	Specific Conductivity	1,413 uS	Lot# 2AE324 Exp: 10/2014
1/1	1140	ORP	240 MV	5587 2/2018
1/1	1148	Dissolved Oxygen	8.23 %	NA
N/A	1200	Turbidity	0, 1, 10	NA
NA	NA	Temperature	NA	NA
NA	NA	Ambient Air Pressure	NA	NA
NA	NA	NA	NA	NA

# EQUIPMENT CALIBRATION FORM

Client: CNA Holdings Project #: Avriga Polymers, Inc

INSTRUMENT: YSI<sup>556</sup>, Hach 2100P

SERIAL NO.: 10A101442, 28078

Date	Time	Parameter	Calibration Reading	Calibration Recorded By <u>JL</u>
6/9/14	1020	pH	4.00	Lot# 2AK644 Exp: 9/2014
			7.00	Lot# 2AL203 Exp: 12/2014
			10.00	Lot# 2AJ108 Exp: 10/2014
1/1	1035	Specific Conductivity	1,413 uS	Lot# 2AE324 Exp: 10/2014
1/1	1041	ORP	240 mV	5587 2/2018
1/1	1055	Dissolved Oxygen	7.83 %	NA
1/1	1104	Turbidity	0, 1, 10	NA
NA	NA	Temperature	NA	NA
NA	NA	Ambient Air Pressure	NA	NA
NA	NA	NA	NA	NA

INSTRUMENT: YSI<sup>556</sup>, Hach 2100P

SERIAL NO.: 09K101305, 17868

Date	Time	Parameter	Calibration Reading	Calibration Recorded By <u>JL</u>
6/9/14	1020	pH	4.00	Lot# 2AK644 Exp: 9/2014
			7.00	Lot# 2AL203 Exp: 12/2014
			10.00	Lot# 2AJ108 Exp: 10/2014
1/1	1035	Specific Conductivity	1,413 uS	Lot# 2AE324 Exp: 10/2014
1/1	1041	ORP	240 mV	5587 2/2018
1/1	1055	Dissolved Oxygen	7.51 %	NA
1/1	1110	Turbidity	0, 1, 10	NA
NA	NA	Temperature	NA	NA
NA	NA	Ambient Air Pressure	NA	NA
NA	NA	NA	NA	NA

# EQUIPMENT CALIBRATION FORM

**Client:** CNA Holdings **Project #:** Auriga Polymers, Inc

**INSTRUMENT:** YSI<sup>556</sup>, Hach

**SERIAL NO.:** 10A10442, 28078

Date	Time	Parameter	Calibration Reading	Calibration Recorded By <i>RL</i>	
6/10/14	0702	pH	4.00	Lot# 2AK644 Exp: 9/2014	
			7.00		Lot# 2AL203 Exp: 12/2014
			10.00		Lot# 2AJ108 Exp: 10/2014
///	0710	Specific Conductivity	1413 $\mu$ S	Lot# 2AE324 Exp: 10/2014	
///	0715	ORP	240 mV	5587 2/2018	
///	0722	Dissolved Oxygen	7.94 %	NA	
X/	0728	Turbidity	0, 1, 10	NA	
NA	NA	Temperature	NA	NA	
NA	NA	Ambient Air Pressure	NA	NA	
NA	NA	NA	NA	NA	

**INSTRUMENT:** YSI<sup>556</sup>, Hach DR880

**SERIAL NO.:** 105110412, 31559, 041250

Date	Time	Parameter	Calibration Reading	Calibration Recorded By <i>RL</i>	
6/10/14	0702	pH	4.00	Lot# 2AK644 Exp: 9/2014	
			7.00		Lot# 2AL203 Exp: 12/2014
			10.00		Lot# 2AJ108 Exp: 10/2014
///	0710	Specific Conductivity	1413 $\mu$ S	Lot# 2AE324 Exp: 10/2014	
///	0715	ORP	240 mV	5587 2/2018	
///	0722	Dissolved Oxygen	8.11 %	NA	
N/	0728	Turbidity	0, 1, 10	NA	
NA	NA	Temperature	NA	NA	
NA	NA	Ambient Air Pressure	NA	NA	
NA	NA	NA	NA	NA	

# EQUIPMENT CALIBRATION FORM

Client: CNA Holdings Project #: Auriga Polymers, Inc

INSTRUMENT: YSI<sup>556</sup> Hach 2100A

SERIAL NO.: 09K101305, 09120C

Date	Time	Parameter	Calibration Reading	Calibration Recorded By <u>JL</u>
6/10/14	0700	pH	4.00	Lot# 2AK644 Exp: 9/2014
			7.00	Lot# 2AL203 Exp: 12/2014
			10.00	Lot# 2A3108 Exp: 10/2014
1/1	0711	Specific Conductivity	1413 $\mu$ S	Lot# 2AE324 Exp: 10/2014
1/1	0720	ORP	240 mV	5587 2/2018
1/1	0724	Dissolved Oxygen	7.70 %	NA
NI	0730	Turbidity	0, 1, 10	NA
NA	NA	Temperature	NA	NA
NA	NA	Ambient Air Pressure	NA	NA
NA	NA	NA	NA	NA

INSTRUMENT: YSI<sup>556</sup> / Hach 2100P

SERIAL NO.: 10H100447 / 17868

Date	Time	Parameter	Calibration Reading	Calibration Recorded By <u>JL</u>
6/10/14	0700	pH	4.00	Lot# 2AK644 Exp: 9/2014
			7.00	Lot# 2AL203 Exp: 12/2014
			10.00	Lot# 2A3108 Exp: 10/2014
1/1	0711	Specific Conductivity	1414 $\mu$ S	Lot# 2AE324 Exp: 10/2014
1/1	0720	ORP	240 mV	5587 2/2018
1/1	0724	Dissolved Oxygen	7.94 %	NA
NI	0730	Turbidity	0, 1, 10	NA
NA	NA	Temperature	NA	NA
NA	NA	Ambient Air Pressure	NA	NA
NA	NA	NA	NA	NA

# EQUIPMENT CALIBRATION FORM

Client: CNA Holdings Project #: Auriga Polymers, Inc

INSTRUMENT: YSI<sup>556</sup>, Hach 2100Q

SERIAL NO.: 10110042, 091200

Date	Time	Parameter	Calibration Reading	Calibration Recorded By	
6/11/14	0710	pH	4.00	A/H Lot# 2AK644 Exp: 9/2014	
			7.00		Lot# 2AL203 Exp: 12/2014
			10.00		Lot# 2AJ108 Exp: 10/2014
1/1	0722	Specific Conductivity	1413 uS	Lot# 2AE324 Exp: 10/2014	
1/1	0730	ORP	240 MV	5587 2/2018	
1/1	0738	Dissolved Oxygen	7.63 %	NA	
N/A	0745	Turbidity	0, 1, 10	NA	
NA	NA	Temperature	NA	NA	
NA	NA	Ambient Air Pressure	NA	NA	
NA	NA	NA	NA	NA	

INSTRUMENT: YSI<sup>556</sup>, Hach DR890

SERIAL NO.: 10511043, 31559

Date	Time	Parameter	Calibration Reading	Calibration Recorded By	
6/11/14	0710	pH	4.00	A/H Lot# 2AK644 Exp: 9/2014	
			7.00		Lot# 2AL203 Exp: 12/2014
			10.00		Lot# 2AJ108 Exp: 10/2014
1/1	0722	Specific Conductivity	1413 uS	Lot# 2AE324 Exp: 10/2014	
1/1	0730	ORP	240 MV	5587 2/2018	
1/1	0738	Dissolved Oxygen	8.28 %	NA	
N/A	0745	Turbidity	0, 1, 10	NA	
NA	NA	Temperature	NA	NA	
NA	NA	Ambient Air Pressure	NA	NA	
NA	NA	NA	NA	NA	

# EQUIPMENT CALIBRATION FORM

Client: CNA Holdings Project #: Auriga Polymers, Inc.

INSTRUMENT: YSI<sup>576</sup>, Hach 200P

SERIAL NO.: 10A101442, 28078

Date	Time	Parameter	Calibration Reading	Calibration Recorded By <u>RL</u>
6/11/14	0700	pH	4.00	Lot# 2AK644 Exp: 9/2014
			7.00	Lot# 2AL203 Exp: 12/2014
			10.00	Lot# 2AJ108 Exp: 10/2014
1/1	0711	Specific Conductivity	1413 $\mu$ S	Lot# 2AE324 Exp: 10/2014
1/1	0717	ORP	240 mV	5587 2/2018
1/1	0722	Dissolved Oxygen	7.72 %	NA
<del>1/1</del>	0730	Turbidity	0, 1, 10	NA
NA	NA	Temperature	NA	NA
NA	NA	Ambient Air Pressure	NA	NA
NA	NA	NA	NA	NA

INSTRUMENT: YSI<sup>576</sup>, Hach 2100P

SERIAL NO.: 09K101305, 17868

Date	Time	Parameter	Calibration Reading	Calibration Recorded By <u>RL</u>
6/11/14	0700	pH	4.00	Lot# 2AK644 Exp: 9/2014
			7.00	Lot# 2AL203 Exp: 12/2014
			10.00	Lot# 2AJ108 Exp: 10/2014
1/1	0711	Specific Conductivity	1413 $\mu$ S	Lot# 2AE324 Exp: 10/2014
1/1	0717	ORP	240 mV	5587 2/2018
1/1	0722	Dissolved Oxygen	7.58 %	NA
<del>1/1</del>	0730	Turbidity	0, 1, 10	NA
NA	NA	Temperature	NA	NA
NA	NA	Ambient Air Pressure	NA	NA
NA	NA	NA	NA	NA



# EQUIPMENT CALIBRATION FORM

Client: CNA Holdings Project #: Auriga Polymers, Inc

INSTRUMENT: YSI<sup>506</sup>, Hach 2100P

SERIAL NO.: 10A101442, 28078

Date	Time	Parameter	Calibration Reading	Calibration Recorded By AH
6/12/14	0711	pH	4.00	Lot# 2AK644 Exp: 9/2014
			7.00	Lot# 2AL203 Exp: 12/2014
			10.00	Lot# 2AJ108 Exp: 10/2014
1/1	0720	Specific Conductivity	1412 uS	Lot# 2AE324 Exp: 10/2014
1/1	0732	ORP	240 mV	5587 2/2018
1/1	0740	Dissolved Oxygen	7.80 %	NA
NA	0748	Turbidity	0, 1, 10	NA
NA	NA	Temperature	NA	NA
NA	NA	Ambient Air Pressure	NA	NA
NA	NA	NA	NA	NA

INSTRUMENT: YSI<sup>506</sup>, Hach 2100P

SERIAL NO.: 09K101305, 17868

Date	Time	Parameter	Calibration Reading	Calibration Recorded By AH
6/12/14	074	pH	4.00	Lot# 2AK644 Exp: 9/2014
			7.00	Lot# 2AL203 Exp: 12/2014
			10.00	Lot# 2AJ108 Exp: 10/2014
1/1	0720	Specific Conductivity	1413 uS	Lot# 2AE324 Exp: 10/2014
1/1	0732	ORP	240 mV	5587 2/2018
1/1	0740	Dissolved Oxygen	7.66 %	NA
NA	0748	Turbidity	0, 1, 10	NA
NA	NA	Temperature	NA	NA
NA	NA	Ambient Air Pressure	NA	NA
NA	NA	NA	NA	NA

# EQUIPMENT CALIBRATION FORM

Client: CNA Holdings Project #: Auriga Polymers, Inc

INSTRUMENT: YSI<sup>556</sup>, Hach 2000

SERIAL NO.: 10H100442, 09120C

Date	Time	Parameter	Calibration Reading	Calibration Recorded By <i>RL</i>
6/12/14	0700	pH	4.00	Lot# 2AK644 Exp: 9/2014
			7.00	Lot# 2AL203 Exp: 12/2014
			10.00	Lot# 2AJ108 Exp: 10/2014
1/1	0712	Specific Conductivity	1413 uS	Lot# 2AE324 Exp: 10/2014
1/1	0720	ORP	240 mV	5587 2/2018
1/1	0726	Dissolved Oxygen	7.57%	NA
1/1	0735	Turbidity	0, 1, 10	NA
NA	NA	Temperature	NA	NA
NA	NA	Ambient Air Pressure	NA	NA
NA	NA	NA	NA	NA

INSTRUMENT: YSI<sup>556</sup>, Hach DR850

SERIAL NO.: 105110413, 31559

Date	Time	Parameter	Calibration Reading	Calibration Recorded By <i>RL</i>
6/12/14	0700	pH	4.00	Lot# 2AK644 Exp: 9/2014
			7.00	Lot# 2AL203 Exp: 12/2014
			10.00	Lot# 2AJ108 Exp: 10/2014
1/1	0712	Specific Conductivity	1413 uS	Lot# 2AE324 Exp: 10/2014
1/1	0720	ORP	240 mV	5587 2/2018
1/1	0726	Dissolved Oxygen	8.11%	NA
1/1	0735	Turbidity	0, 1, 10	NA
NA	NA	Temperature	NA	NA
NA	NA	Ambient Air Pressure	NA	NA
NA	NA	NA	NA	NA

# EQUIPMENT CALIBRATION FORM

Client: CNA Holdings Project #: Auriga Polymers, Inc

INSTRUMENT: YSI<sup>556</sup>, Hach 2100P

SERIAL NO.: 16A101442, 28078

Date	Time	Parameter	Calibration Reading	Calibration Recorded By JL	
6/13/14	0700	pH	4.00	Lot# 2AK644 Exp: 9/2014	
			7.00		Lot# 2AL203 Exp: 12/2014
			10.00		Lot# 2AJ108 Exp: 10/2014
1/1	0711	Specific Conductivity	1413 uS	Lot# 2AE324 Exp: 10/2014	
1/1	0717	ORP	240 MV	5587 2/2018	
1/1	0728	Dissolved Oxygen	7.72 %	NA	
1/1	0735	Turbidity	0, 1, 10	NA	
NA	NA	Temperature	NA	NA	
NA	NA	Ambient Air Pressure	NA	NA	
NA	NA	NA	NA	NA	

INSTRUMENT: YSI<sup>556</sup>, Hach 2100P

SERIAL NO.: 09K101305, 17868

Date	Time	Parameter	Calibration Reading	Calibration Recorded By JL	
6/13/14	0700	pH	4.00	Lot# 2AK644 Exp: 9/2014	
			7.00		Lot# 2AL203 Exp: 12/2014
			10.00		Lot# 2AJ108 Exp: 10/2014
1/1	0711	Specific Conductivity	1413 uS	Lot# 2AE324 Exp: 10/2014	
1/1	0717	ORP	240 MV	5587 2/2018	
1/1	0728	Dissolved Oxygen	7.60 %	NA	
1/1	0735	Turbidity	0, 1, 10	NA	
NA	NA	Temperature	NA	NA	
NA	NA	Ambient Air Pressure	NA	NA	
NA	NA	NA	NA	NA	

# EQUIPMENT CALIBRATION FORM

**Client:** CNA Holdings **Project #:** Auriga Polymers, Inc

**INSTRUMENT:** YSI<sup>536</sup>, Hach 2100P

**SERIAL NO.:** 10H00442, 09120C

Date	Time	Parameter	Calibration Reading	Calibration Recorded By RL
6/13/14	0658	pH	4.00	Lot# 2AK644 Exp: 9/2014
			7.00	
			10.00	
1/1	0710	Specific Conductivity	1413 uS	Lot# 2AL203 Exp: 12/2014
1/1	0717	ORP	240 MV	Lot# 2AJ108 Exp: 10/2014
1/1	0722	Dissolved Oxygen	7.50 %	5587 2/2018
1/1	0730	Turbidity	0, 1, 10	NA
NA	NA	Temperature	NA	NA
NA	NA	Ambient Air Pressure	NA	NA
NA	NA	NA	NA	NA

**INSTRUMENT:** YSI<sup>536</sup>, Hach DR850

**SERIAL NO.:** 10J110413, 31559

Date	Time	Parameter	Calibration Reading	Calibration Recorded By RL
6/13/14	0658	pH	4.00	Lot# 2AK644 Exp: 9/2014
			7.00	
			10.00	
1/1	0710	Specific Conductivity	1413 uS	Lot# 2AL203 Exp: 12/2014
1/1	0717	ORP	240 MV	Lot# 2AJ108 Exp: 10/2014
1/1	0722	Dissolved Oxygen	8.03 %	5587 2/2018
1/1	0730	Turbidity	0, 1, 10	NA
NA	NA	Temperature	NA	NA
NA	NA	Ambient Air Pressure	NA	NA
NA	NA	NA	NA	NA

# EQUIPMENT CALIBRATION FORM

**Client:** CNA Holdings **Project #:** Auriga Polymers, Inc

**INSTRUMENT:** YSI<sup>556</sup>, Hach 2100P

**SERIAL NO.:** 09K101305, 09120C

Date	Time	Parameter	Calibration Reading	Calibration Recorded By <i>RL</i>	
6/11/14	0700	pH	4.00	3.99	Lot# 2AK644 Exp: 9/2014
			7.00	7.02	Lot# 2AL203 Exp: 12/2014
			10.00	10.00	Lot# 2AJ108 Exp: 10/2014
///	0714	Specific Conductivity	1,413 uS	Lot# 2AE324 Exp: 10/2014	
///	0720	ORP	240 MV	5587 2/2018	
///	0726	Dissolved Oxygen	7.87 %	NA	
///	0735	Turbidity	0, 1, 10	NA	
NA	NA	Temperature	NA	NA	
NA	NA	Ambient Air Pressure	NA	NA	
NA	NA	NA	NA	NA	

**INSTRUMENT:** YSI<sup>556</sup>, Hach 2100P

**SERIAL NO.:** 10J110413, 28078

Date	Time	Parameter	Calibration Reading	Calibration Recorded By <i>RL</i>	
6/11/14	0700	pH	4.00	4.01	Lot# 2AK644 Exp: 9/2014
			7.00	7.00	Lot# 2AL203 Exp: 12/2014
			10.00	10.02	Lot# 2AJ108 Exp: 10/2014
///	0714	Specific Conductivity	1,413 uS	Lot# 2AE324 Exp: 10/2014	
///	0720	ORP	240 MV	5587 2/2018	
///	0726	Dissolved Oxygen	8.11 %	NA	
///	0735	Turbidity	0, 1, 10	NA	
NA	NA	Temperature	NA	NA	
NA	NA	Ambient Air Pressure	NA	NA	
NA	NA	NA	NA	NA	

CLIENT CMA HOLDINGS PROJECT ARIGA POLYMER S, INC.

MATER. YSI 076, HACH 200P

SERIAL NO.: 09K101305, 28078

Date	Time	Parameter	Calibration Reading	Calibration Recorded By
6/18/14	0715	pH	4.00	Lot# 2AK64 Exp: 9/2014
			7.00	Lot# 2AL203 Exp: 12/2014
			10.00	Lot# 2AJ103 Exp: 10/2014
///	0724	Specific Conductivity	1413 uS	Lot# 2AE324 Exp: 10/2014
///	0730	ORP	240 MV	5587 2/2018
///	0737	Dissolved Oxygen	8.08 %	NA
///	0740	Turbidity	0.110	NA
NA	NA	Temperature	NA	NA
NA	NA	Ambient Air Pressure	NA	NA
NA	NA	NA	NA	NA

INSTRUMENT: YSI, Hach

SERIAL NO.: \_\_\_\_\_

Date	Time	Parameter	Calibration Reading	Calibration Recorded By
///		pH	4.00	Lot# 2AK64 Exp: 9/2014
			7.00	Lot# 2AL203 Exp: 12/2014
			10.00	Lot# 2AJ103 Exp: 10/2014
///		Specific Conductivity	uS	Lot# 2AE324 Exp: 10/2014
///		ORP	MV	5587 2/2018
///		Dissolved Oxygen	%	NA
///		Turbidity	0.110	NA
NA	NA	Temperature	NA	NA
NA	NA	Ambient Air Pressure	NA	NA
NA	NA	NA	NA	NA

# TAILGATE SAFETY MEETING

EFM, Inc.

PROJECT: Celanese / Salisbury, NC

PROJECT NO.: \_\_\_\_\_

DATE: 6/9/14

TIME: 0920

### TYPE OF TRAINING

Site Specific H&S Meeting \_\_\_\_\_

Tailgate Safety Meeting

HASP Reading / Review \_\_\_\_\_

Other: \_\_\_\_\_

TRAINING PRESENTED BY: Aaron Hill

TOPICS COVERED: S, T, F, Splashes, weather plan

### ATTENDEES

Name (print)	Signature
Aaron Hill	Aaron Hill
Jeff Leaver	Jeff Leaver
Davis Hill	Davis Hill
Rich Lane	Rich Lane

SITE SUPERVISOR: Aaron Hill

DATE: 6/9/14

# TAILGATE SAFETY MEETING

EFM, Inc.

PROJECT: Celanese / Salisbury, NC

PROJECT NO.: \_\_\_\_\_

DATE: 6/10/14

TIME: 0700

### TYPE OF TRAINING

Site Specific H&S Meeting \_\_\_\_\_

Tailgate Safety Meeting

HASP Reading / Review \_\_\_\_\_

Other: \_\_\_\_\_

TRAINING PRESENTED BY: Aaron Hill

TOPICS COVERED: punch points, heat, traffic

### ATTENDEES

Name (print)	Signature
<u>Aaron Hill</u>	<u>Aaron Hill</u>
<u>Dennis Hill</u>	<u>Dennis Hill</u>
<u>Jeff Leaver</u>	<u>Jeff Leaver</u>
<u>Rich Lane</u>	<u>Rich Lane</u>

SITE SUPERVISOR: Aaron Hill

DATE: 6/10/14



# TAILGATE SAFETY MEETING

EFM, Inc.

PROJECT: Celanese / Salisbury, NC

PROJECT NO.: \_\_\_\_\_

DATE: 6/11/14

TIME: 0700

### TYPE OF TRAINING

Site Specific H&S Meeting \_\_\_\_\_

Tailgate Safety Meeting

HASP Reading / Review \_\_\_\_\_

Other: \_\_\_\_\_

TRAINING PRESENTED BY: Aaron Hill

TOPICS COVERED: Insects / snakes / ticks / Mosquitos / sun screen / Hydration

### ATTENDEES

Name (print)	Signature
Aaron Hill Jeff Leaver	Aaron Hill Jeff Leaver
David Hill Rich Lane	David Hill Rich Lane

SITE SUPERVISOR: A Hill

DATE: 6/11/14

# TAILGATE SAFETY MEETING

EFM, Inc.

PROJECT: Celanese / Salisbury, NC

PROJECT NO.: \_\_\_\_\_

DATE: 6/12/14

TIME: 0650

### TYPE OF TRAINING

Site Specific H&S Meeting \_\_\_\_\_

Tailgate Safety Meeting

HASP Reading / Review \_\_\_\_\_

Other: \_\_\_\_\_

TRAINING PRESENTED BY: Am Hill

TOPICS COVERED: Weather, traffic, lifting

### ATTENDEES

Name (print)	Signature
<u>Am Hill</u>	<u>Am Hill</u>
<u>Jeff Leaver</u>	<u>Jeff Leaver</u>
<u>Rich Lane</u>	<u>Rich Lane</u>
<u>Davis Hill</u>	<u>Davis Hill</u>

SITE SUPERVISOR: Am Hill

DATE: 6/12/14

# TAILGATE SAFETY MEETING

EFM, Inc.

PROJECT: Celanese / Salisbury, NC

PROJECT NO.: \_\_\_\_\_

DATE: 6/13/14

TIME: 0700

## TYPE OF TRAINING

Site Specific H&S Meeting \_\_\_\_\_

Tailgate Safety Meeting

HASP Reading / Review \_\_\_\_\_

Other: \_\_\_\_\_

TRAINING PRESENTED BY: A Hill

TOPICS COVERED: Lifting, pinch points, S,T,F

## ATTENDEES

Name (print)	Signature
<u>A Hill</u>	<u>A Hill</u>
<u>Jeff Leaver</u>	<u>Jeff Leaver</u>
<u>Davis Hill</u>	<u>Davis Hill</u>
<u>Rich Lane</u>	<u>Rich Lane</u>

SITE SUPERVISOR: A Hill

DATE: 6/13/14

# TAILGATE SAFETY MEETING

EFM, Inc.

PROJECT: Celanese / Salisbury, NC

PROJECT NO.: \_\_\_\_\_

DATE: 6/17/14

TIME: 0710

### TYPE OF TRAINING

Site Specific H&S Meeting

Tailgate Safety Meeting

HASP Reading / Review

Other: \_\_\_\_\_

TRAINING PRESENTED BY: Jeff Leaver

TOPICS COVERED: Slips, Trips, Falls, Hydration

### ATTENDEES

Name (print)	Signature
<u>Jeff Leaver</u>	<u>Jeff Leaver</u>
<u>Davis Hill</u>	<u>Davis Hill</u>
<u>Rich Lane</u>	<u>Rich Lane</u>

SITE SUPERVISOR: Jeff Leaver

DATE: 6/17/14

# TAILGATE SAFETY MEETING

EFM, Inc.

PROJECT: Celanese / Salisbury, NC

PROJECT NO.: \_\_\_\_\_

DATE: 6/18/14

TIME: 0700

## TYPE OF TRAINING

Site Specific H&S Meeting \_\_\_\_\_

Tailgate Safety Meeting

HASP Reading / Review \_\_\_\_\_

Other: \_\_\_\_\_

TRAINING PRESENTED BY: Jeff Leaver

TOPICS COVERED: Lifting, STF

## ATTENDEES

Name (print)

Signature

Jeff Leaver

Jeff Leaver

SITE SUPERVISOR: Jeff Leaver

DATE: 6/18/14



Water Level Measurements

Project No: \_\_\_\_\_ Site: CNA/Spartanburg

Well ID	Date	Depth to NAPL	Depth to Water	Comments
MW-139	6/9/14	NA	14.40	
MW-138	6/9/14		12.00	
MW-128	6/9/14		33.70	
RW-127	6/9/14		27.00	
MW-126	6/9/14		24.80	
MW-124	6/9/14		22.31	
RW-123	6/9/14		<del>11.63</del> 25.92	
MW-122	6/9/14		19.43	
RW-137	6/9/14		22.74	
MW-136	6/9/14		22.84	
RW-110	6/10/14		21.71	
RW-111	6/10/14		6.98	
MW-116	6/10/14		4.94	
MW-112	6/10/14		12.94	
RW-113	6/10/14		18.84	
MW-102	6/10/14		25.21	
RW-83A	6/10/14		7.05	
RW-84	6/10/14		9.78	
MW-81	6/10/14		9.24	
MW-41	6/10/14		12.60	
RW-115	6/10/14		32.91	
RW-08	6/10/14		15.24	
MW-114	6/10/14		30.60	
RW-85	6/10/14		12.35	
RW-87	6/10/14	7.22		
MW-42	6/10/14	21.03		
MW-09A	6/10/14	19.28		
MW-39	6/10/14	19.73		
RW-133	6/10/14	V	56.41	

Signature: [Signature]

Date: \_\_\_\_\_

Page: 1 of 4



Water Level Measurements

Project No: \_\_\_\_\_ Site: CNA/Spartanburg

Well ID	Date	Depth to NAPL	Depth to Water	Comments
RW-79	6/10/14	NA	13.20	
RW-80	6/11/14		6.98	
MW-53	6/11/14		10.63	
RW-82	6/11/14		14.31	
RW-86	6/11/14		13.01	
MW-07	6/11/14		15.82	
RW-92	6/11/14		14.08	
RW-91	6/11/14		15.21	
MW-05	6/11/14		21.63	
MW-105	6/11/14		14.36	
MW-106	6/11/14		14.75	
MW-132	6/11/14		43.32	
MW-134	6/11/14		52.24	
RW-121	6/11/14		33.16	
MW-120	6/11/14		33.62	
RW-108	6/11/14		45.20	
MW-109	6/11/14		43.67	
MW-118	6/11/14		31.44	
<del>MW-113</del> EW-49	6/11/14		21.02	
RW-119	6/11/14		32.04	
EW-50	6/11/14		22.02	
RW-129	6/11/14		42.08	
MW-98	6/12/14		45.63	
MW-99	6/12/14		46.99	
EW-52	6/12/14		17.40	
RW-130	6/12/14		51.68	
EW-36	6/12/14		14.96	
EW-53	6/12/14		52.32	
EW-41	6/12/14		23.12	

Signature: [Signature]

Date: \_\_\_\_\_

Page: 2 of 4

Project No: \_\_\_\_\_ Site: CNA / Spartanburg

Well ID	Date	Depth to NAPL	Depth to Water	Comments
RW-65	6/12/14	N/A	36.40	
EW-39	6/12/14		40.48	
RW-47	6/12/14		31.98	
EW-31	6/12/14		20.91	
RW-29	6/12/14		41.35	
MW-46	6/12/14		29.61	
EW-30	6/12/14		11.83	
MW-103	6/12/14		34.80	
RW-48	6/12/14		36.80	
EW-37	6/12/14		27.80	
MW-45	6/12/14		36.35	
EW-28	6/12/14		22.54	
EW-43	6/12/14		26.17	
EW-02	6/12/14		10.80	
EW-47	6/12/14		19.50	
MW-57	6/13/14		16.09	
EW-38	6/12/14		19.32	
RW-56	6/13/14		16.41	
MW-40R	6/13/14		36.26	
EW-07	6/12/14		22.85	
MW-26	6/13/14		25.15	
EW-17	6/13/14		28.48	
MW-03	6/13/14		30.62	
RW-43	6/13/14		13.40	
MW-107	6/17/14		37.33	
EW-40	6/17/14		32.26	
EW-01	6/17/14		34.05	
EW-22	6/17/14		46.30	
EW-16	6/17/14		35.83	

Signature: *C. Hill*

Date: \_\_\_\_\_

Page: 3 of 4



Project No: \_\_\_\_\_

Site: CNA/Spartanburg

Well ID	Date	Depth to NAPL	Depth to Water	Comments	
EW-27	6/17/14	NA	31.17		
MW-97	6/17/14	↓	35.60		
MW-96	6/17/14		35.92		
EW-15	6/17/14		31.91		
EW-20	6/17/14		43.10		
EW-14	6/17/14		48.85		
RW-24	6/18/14		35.36		
EW-32	6/18/14		31.10		
EW-26	6/18/14		53.30		
MW-95	6/17/14		NA	20.22	

Signature: 

Date: \_\_\_\_\_

Page: 4 of 4

YSI 556 MPS / Water Quality Calibration Certificate



Cal Standard Temp, LAB, C : 25-07 Temp, FIELD, C :         

Conductivity	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
1413 UMHO/CM @ 25°C	7308325	9/14	1.278		(+/- .5%)

PH 4.00	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
@ 25°C	7305561	6/15	4.00		(+/- 0.2 units)

PH 7.01	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
@ 25°C	7305559	6/15	7.01		(+/- 0.2 units)

PH 10.01	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
@ 25°C	7305560	6/15	10.02		(+/- 0.2 units)

ORP ZOBELLS	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
231.0 MV @ 25°C	7401080	4/14	237.5		(+/- 20 MV)

Dissolved Oxygen (Saturated Air)	Post-Cal, LAB	Temp, C	% Saturation	mg/L	Acceptable Range
		25-49	97.7	8.32	
	Post-Cal, FIELD				

New DO Membrane

Yes  No

Do Cap Color

Black  Blue  Yellow

Model 556 S/N 08T101253 Cable 14A35

Calibration referenced to the temperature of the calibration standards.

Turbidity	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
.02 NTU	40101	JAN-16	0.02		(.0196 to .0204)
.10 NTU	40147	JAN-16	10.06		(9.8 to 10.2)
1000 NTU	40148	JAN-16	1001		(970 to 1031)

Model Micro TPW S/N 201404340

Calibrated By Eric Olson Date of Calibration 6-17-14

Project Name 60280417.610 Project number Aurisa

Signed : [Signature]

# Sample Collection Supplies



T034758

Order #: 50375  
 Date Required: 6/17/14  
 Project Chemist: Janice Jaeger  
 Phone Number: 585-288-5380 x7472

Client: AECOM, Inc.  
 Project: Auriga Spartanburg  
 SDG Name: Auriga Spartanburg  
 P.O. Number: 44071ACM  
 Ship To: AECOM, Atten: Mark Hartford  
 10 Patewood Drive  
 Building VI, Suite 500  
 Greenville, SC 29615  
 E-mail: mark.kromis@aecom.com  
 Phone: 864-234-3586

Shipped On: \_\_\_\_\_  
 Shipped By: \_\_\_\_\_  
 Tracking #: \_\_\_\_\_  
 Shipping Cost: \_\_\_\_\_

Comments: **Bag containers by sample template.**

## Grouped by Container Type

Quantity	Container
1	500mL-Glass Bottle NM AMBER Teflon Liner(Na2SO3) 1 per sample            522/1,4-Dioxane FP

## Grouped by Sample Template

Sample Template Number / Name	Expected Number of Samples	Containers	Number of Containers per Sample	Comments
001 / 1,4-Dioxane	1			
		<u>500mL-Glass Bottle NM AMBER Teflon Liner(Na2SO3) - 522</u>	✓	
			2	

**Precautions:** Preserved sample containers should not be overflowed while filling. Under no circumstances should the inside of the containers or lids be handled.

**Please return this form with your coolers when delivering your samples to ALS Environmental.**



# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

15141

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name <i>Milligan</i>	Project Number <i>00280419.610</i>	ANALYSIS REQUESTED (Include Method Number and Container Preservative)	
Project Manager <i>Brian Doherty</i>	Report CC <i>HECOM</i>	PRESERVATIVE	
Company/Address <i>One Milltown Plaza, 1360 Reelview St NE, Atlanta GA 30309</i>		GC/MS VOAs ◦ 8260 ◦ 824 ◦ CLP	
Phone # <i>1-404-965-9659</i>	Email	GC/MS SVOAs ◦ 8270 ◦ 625	
Sample Signature <i>Randy Moore</i>	Signature/Printed Name <i>Randy Moore</i>	GC VOAs ◦ 8021 ◦ 801/802	
CLIENT SAMPLE ID <i>MU-95</i>	FOR OFFICE USE ONLY LAB ID	PESTICIDES ◦ 8081 ◦ 608	
	DATE SAMPLING TIME MATRIX <i>6-19-14 1203 61002 2</i>	PCBs ◦ 8082 ◦ 608	
		METALS, TOTAL (List in comments below)	
		METALS, DISSOLVED (List in comments below)	
		<i>5221/4 Dioxane FP</i>	
		PREPARATIVE KEY	
		0 NONE	
		1. HCL	
		2. HNO3	
		3. H2SO4	
		4. NaOH	
		5. Zn Acetate	
		6. MeOH	
		7. NaHSO4	
		8. Other	
		REMARKS/ ALTERNATE DESCRIPTION	

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs	GC/MS SVOAs	GC VOAs	PESTICIDES	PCBs	METALS, TOTAL	METALS, DISSOLVED	PREPARATIVE KEY	REMARKS/ ALTERNATE DESCRIPTION
<i>MU-95</i>		<i>6-19-14</i>	<i>1203</i>	<i>61002</i>	<i>2</i>									

SPECIAL INSTRUCTIONS/COMMENTS  
*STAT - Standard Turnaround Time*

See QAPP

STATE WHERE SAMPLES WERE COLLECTED *Spartanburg SC*

RELINQUISHED BY *Randy Moore* RECEIVED BY *Randy Moore*

Signature *Randy Moore* Signature *Randy Moore*

Printed Name *Randy Moore* Printed Name *Randy Moore*

Firm *HECOM* Firm *HECOM*

Date/Time *6/17/14 1430* Date/Time *6/17/14 1430*

TURNAROUND REQUIREMENTS  
RUSH (SURCHARGES APPLY)  
1 day \_\_\_\_\_ 2 day \_\_\_\_\_ 3 day \_\_\_\_\_  
4 day \_\_\_\_\_ 5 day \_\_\_\_\_  
**STAT**

REQUESTED REPORT DATE

REPORT REQUIREMENTS  
I. Results Only \_\_\_\_\_  
II. Results + QC Summaries (LCS, DUP, MS/MSD as required) \_\_\_\_\_  
III. Results + QC and Calibration Summaries \_\_\_\_\_  
IV. Data Validation Report with Raw Data \_\_\_\_\_

ECdata Yes \_\_\_\_\_ No \_\_\_\_\_

RELINQUISHED BY \_\_\_\_\_ RECEIVED BY \_\_\_\_\_

Signature \_\_\_\_\_ Signature \_\_\_\_\_

Printed Name \_\_\_\_\_ Printed Name \_\_\_\_\_

Firm \_\_\_\_\_ Firm \_\_\_\_\_

Date/Time \_\_\_\_\_ Date/Time \_\_\_\_\_

INVOICE INFORMATION  
PO # \_\_\_\_\_  
BILL TO: \_\_\_\_\_

PROJECT NUMBER: 6028047.610 DATE: June 17, 2014 REPORT NUMBER: 1081  
 PROJECT & LOCATION: Auriga, Spartanburg SC  
 CLIENT: \_\_\_\_\_ AECOM FIELD REPRESENTATIVE: Randy Meyer  
 SUBCONTRACTOR: \_\_\_\_\_  
 SUBCONTRACTOR PERSONNEL ON SITE: \_\_\_\_\_  
 BRIEF SUMMARY OF WORK PERFORMED: locate & sample MW-95

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0900		leave AECOM to pick up equipment
0911		at equipment center, Eric still working on YSI waiting for it.
0930		leave for Auriga Spartanburg SC
1007		pick up ice
1015		arrive at bridge area near MW 95 park and mob to area to try to locate well
1118		locate well clear area to access
		bring equipment down to well - calibrate DO% as it was not finished at equipment center all else calibrated
		DO% saturated air @ 31.49°C 7.28
1130		at MW-95 take water level set up to micro purge
1136		begin to micro purge w/ peristaltic pump
	1203	sampled MW-95
1210		begin to take equipment back up to the van
		take photos of area and well
1226		empty purge water at WWTP at Auriga
1238	1330	off site to return equipment and ship samples Fed Ex
		ship samples from AECOM office

FIELD REPRESENTATIVES SIGNATURE: Randy Meyer DATE: June 17, 2014



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr) June 17-2014  
 Field Personnel Randy Morgan  
 Site Name Auriga  
 AECOM JOB # 60280417.610  
 Well ID\* MW-95  
 Upgradient Clear Spring Downgradient Sidegradient Source       
 Weather Conditions 85  
 Air Temperature 85 °F  
 Total Well Depth (TWD) = 20.22 TOC  
 Depth to Ground Water (DGW) = 13.68 1/100 ft  
 Length of Water Column (LWC) = TWD - DGW =      1/100 ft  
 1 Casing Volume (OCV)\* = LWC x 0.163 =      gal  
 3 Casing Volumes =      gal = Standard Evacuation Volume  
 Method of Sample Evacuation Peristaltic Pump  
 Method of Sample Collection Peristaltic Pump  
 Total Volume of Water Removed 1.75 gal

Casing Diameter 2.0 inches  
 Casing Material PVC  
 Measuring Point Elevation      1/100 ft  
 Height of Riser (above land surface)      1/100 ft  
 Land Surface Elevation      1/100 ft  
 Screened Interval      1/100 ft  
 Dedicated Pump or Bailor YES      NO      Type       
 Steel Guard Pipe Around Casing YES      NO       
 Locking Cap YES      NO       
 Protective Post/Abutment YES      NO       
 Well Integrity Satisfactory YES      NO       
 Yield LOW      MODERATE      HIGH X  
 Comments/Observations       
 Sample Time: 1203

\* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) =  $\pi \cdot r^2 \cdot h$  (7.48), where r is the radius (ft) and h is the height (ft).

VOLUME PURGED (gallons)	FIELD ANALYSES				
	Initial	35	70	105	140
TIME (Military)	1136	1141	1146	1151	1156
Water Level (ft BTOC)	13.70	13.71	13.71	13.71	13.71
pH (S.U.)	6.53	5.77	5.54	5.53	5.49
Sp. Cond. (mS/cm)	0.049	0.044	0.044	0.044	0.043
Water Temp. (°C)	18.81	17.59	17.19	17.09	16.99
Turbidity (NTUs)	15.77	8.45	6.45	3.87	4.62
DO - (mg/L)	5.71	6.07	6.41	6.35	6.60
Salinity (ppt)	0.02	0.02	0.02	0.02	0.02
ORP (mV)	133.3	181.4	195.1	198.2	205.0

COMMENTS/OBSERVATIONS

WELL NO.: MW-139

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: cloudy / Rain 80° Sampling Date: 06/9/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)
- b. Depth to Water: 14.40 (ft)
- c. Depth to DNAPL: N/A (ft)
- d. Total Well Depth: 97.70 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)
- f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 83.30 (ft) (a-d)
- h. Well Volume: 13.6 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1750 End Purge Time: 1826

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
VALUES											
INT	4	200	17.33	4.97	133	142.9	9.40	68.9	cloudy	NO	14.44
2	10	180	17.86	4.22	132	194.0	3.16	50.1	cloudy	NO	14.49
3	15	180	17.73	3.97	130	211.4	1.47	29.7	CLEAR	NO	14.51
4	20	180	17.64	3.83	128	212.9	1.20	26.4	CLEAR	NO	14.53
5	25	180	17.63	3.79	128	210.1	1.08	22.9		NO	14.53
6	30	180	17.69	3.77	128	209.3	0.97	23.7		NO	14.54
7	35	180	17.71	3.77	129	207.7	0.94	23.1	✓	NO	14.54

*Jeff Leaver*  
6/9/14

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: JEFF LEAVER

Sampling Method(s) & Equip: Low Flow / Pump Tubing  
 Sample I.D. (Name, Date, Time): MW-139, 6/9/14, 1830  
 Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation  
 HACH s/n: 09120C; YSI s/n: 09K101305; Fe+2 = 0.0 mg/L

Sample Start Time: 1830 End Sample Time: 1852

COMMENTS:

WELL NO.: MW-138

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: P-SUNNY 86° Sampling Date: 06/12/2014

#### 1. WATER LEVEL DATA (measured from top of inner well casing)

- a. Depth to LNAPL: N/A (ft)
- b. Depth to Water: 12.00 (ft)
- c. Depth to DNAPL: N/A (ft)
- d. Total Well Depth: 59.65 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)
- f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 47.65 (ft) (a-d)
- h. Well Volume: 7.8 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

#### 2. WELL PURGE DATA

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1900 End Purge Time: 1936

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
<b>PURGE VALUES</b>											
<u>1</u>	<u>5</u>	<u>150</u>	<u>17.93</u>	<u>4.41</u>	<u>43</u>	<u>174.1</u>	<u>10.60</u>	<u>17.4</u>	<u>clear</u>	<u>NO</u>	<u>12.29</u>
<b>GING VA</b>											
<u>2</u>	<u>11</u>	<u>160</u>	<u>18.11</u>	<u>4.30</u>	<u>41</u>	<u>196.7</u>	<u>8.22</u>	<u>11.0</u>	<u>clear</u>	<u>NO</u>	<u>12.32</u>
<u>3</u>	<u>17</u>	<u>160</u>	<u>18.29</u>	<u>4.24</u>	<u>40</u>	<u>220.4</u>	<u>7.15</u>	<u>8.91</u>		<u>NO</u>	<u>12.34</u>
<u>4</u>	<u>22</u>	<u>160</u>	<u>18.36</u>	<u>4.19</u>	<u>40</u>	<u>222.0</u>	<u>6.86</u>	<u>7.22</u>		<u>NO</u>	<u>12.35</u>
<u>5</u>	<u>30</u>	<u>160</u>	<u>18.40</u>	<u>4.17</u>	<u>40</u>	<u>223.5</u>	<u>6.80</u>	<u>7.04</u>		<u>NO</u>	<u>12.35</u>
<u>6</u>	<u>35</u>	<u>160</u>	<u>18.44</u>	<u>4.17</u>	<u>40</u>	<u>224.1</u>	<u>6.77</u>	<u>5.86</u>	<u>↓</u>	<u>NO</u>	<u>12.36</u>
<u>A-A 6/9/14</u>											

#### 3. SAMPLE COLLECTION DATA

Sampling Personnel: JEFF LEAVER

Sampling Method(s) & Equip: LOW FLOW, PUMP TUBING  
 Sample I.D. (Name, Date, Time): MW-138, 6/9/14, 1940  
 Sample Analytical Parameters/Method: Vocs; DDE; Dow-Therm-A; Nat Attenuation  
 HACH s/n: 09120C; YSI s/n: 09K1030J; Fe<sup>2+</sup> = 0.0 mg/L

Sample Start Time: 1940

End Sample Time: 2005

COMMENTS:



WELL NO.: MW-128

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: SUNNY 86° Sampling Date: 06/9/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)
- b. Depth to Water: 33.70 (ft)
- c. Depth to DNAPL: N/A (ft)
- d. Total Well Depth: 59.90 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)
- f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 26.20 (ft) (a-d)
- h. Well Volume: 4.3 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1415 End Purge Time: 1450

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

FR	4	250	22.38	5.10	38	167.6	11.16	30.7	cloudy	NO	33.94
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**PURGING VALUES**

2	10	200	21.50	3.38	37	258.5	9.80	18.5	clear	NO	33.98
3	15	200	21.46	3.17	37	266.0	9.61	9.66		NO	34.00
4	20	200	21.28	3.00	38	281.3	9.67	9.02		NO	34.03
5	25	200	21.33	3.06	36	290.4	9.84	7.74		NO	34.05
6	30	200	21.40	3.07	36	292.0	9.90	6.80		NO	34.07
7	35	200	21.46	3.07	36	293.1	9.97	6.62	↓	NO	34.09

~~6/9/14~~

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: JEFF LEVER

Sampling Method(s) & Equip: LOW FLOW / PUMP TUBING

Sample I.D. (Name, Date, Time): MW-128 / 6/9/14 / 1500

Sample Analytical Parameters/Method: Vocs, DDE, Dow Therm-A, Nat Attenuation

HACH s/n: 09120C ; YSI s/n: 09K10305 Fe+2 = 0.0 mg/L

TOOK MS/MSD

Sample Start Time: 1500

End Sample Time: 1615

COMMENTS:

WELL NO.: Rw - 127

## GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 80's Sampling Date: 06/9/2014

1. WATER LEVEL DATA (measured from top of inner well casing)
- a. Depth to LNAPL: n/a (ft)
  - b. Depth to Water: 27.00 (ft)
  - c. Depth to DNAPL: n/a (ft)
  - d. Total Well Depth: 92.42 (ft)
  - e. LNAPL Thickness: (a-b) n/a (ft)
  - f. DNAPL Thickness: (c-d) n/a (ft)
  - g. Length of Water Column: 65.42 (ft) (a-d)
  - h. Well Volume: 10.66 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

2. WELL PURGE DATA
- a. Purge Method: Peristaltic 12v pump/Ext Well/Surface Water
  - b. Field Testing Equipment: YSI 556; Hach
  - c. Required Total Purge Volume (1f x 2c) (gals.): NA
  - d. Total Volume and Number of Well Volumes Removed: NA
  - e. Begin Purge Time: 1905 End Purge Time: 1930

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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PRE PURGE VALUES

1	5	100	20.62	6.58	0.208	57.6	2.47	4.21	clear	none	27.03
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PURGING VALUES

2	10	100	20.47	6.76	0.215	31.5	1.26	3.60	↓	↓	27.05
3	15	100	20.51	7.00	0.217	12.0	0.99	2.12	↓	↓	27.05
4	20	100	20.59	7.01	0.217	10.6	0.94	2.20	↓	↓	27.05
5	25	100	20.66	7.02	0.217	11.4	0.89	2.16	↓	↓	27.05

R Lane

6/9/14

3. SAMPLE COLLECTION DATA

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated teflon tubing

Sample I.D. (Name, Date, Time): Rw-127 6/9/14, 1935

Sample Analytical Parameters/Method: (Vocs) DDE ; Dow Therm A; (Nat Attenuation)

HACH s/n: 10H100442 ; YSI s/n: 28078

Sample Start Time: 1935 End Sample Time: 1955

COMMENTS: FE = 0 mg/L

WELL NO.: MW-126

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Pt cloudy 80's Sampling Date: 06/9/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: n/a (ft)
- b. Depth to Water: 24.80 (ft)
- c. Depth to DNAPL: n/a (ft)
- d. Total Well Depth: 49.15 (ft)
- e. LNAPL Thickness: (a-b) (ft)
- f. DNAPL Thickness: (c-d) n/a (ft)
- g. Length of Water Column: 24.35 (ft) (a-d)
- h. Well Volume: 3.96 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1810 End Purge Time:

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
<b>PURGE VALUES</b>											
1	5	200	19.53	5.21	0.087	208.3	6.33	3.57	clear	none	24.82
2	10	200	19.40	5.13	0.087	213.4	6.27	3.26	↓	↓	24.83
3	15	200	19.61	5.17	0.087	211.5	6.11	2.87	↓	↓	24.83
4	20	200	19.68	5.15	0.087	214.2	6.07	2.06	↓	↓	24.83
5	25	200	19.77	5.17	0.088	212.6	6.04	1.87	↓	↓	24.83
6	30	200	19.83	5.19	0.088	215.4	5.98	1.79	↓	↓	24.83
<i>6/9/14 R Lane</i>											

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated teflon tubing

Sample I.D. (Name, Date, Time): MW-126 6/9/14, 1845

Sample Analytical Parameters/Method: (Vocs) DDE ; Dow Therm A (Nat Attenuation)

HACH s/n: 28078 ; YSI s/n: 104100442

Sample Start Time: 1845

End Sample Time: 1900

COMMENTS:

FE = 8 mg/L

WELL NO.: MW-124

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: overcast / Rain 80's Sampling Date: 06/9/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: n/a (ft) b. Depth to Water: 22.31 (ft)  
 c. Depth to DNAPL: n/a (ft) d. Total Well Depth: 59.50 (ft)  
 e. LNAPL Thickness: (a-b)          (ft) f. DNAPL Thickness: (c-d) n/a (ft)  
 g. Length of Water Column: 37.19 (ft) (a-d)  
 h. Well Volume: 6.06 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water  
 b. Field Testing Equipment: YSI 556; Hach  
 c. Required Total Purge Volume (1f x 2c) (gals.): NA  
 d. Total Volume and Number of Well Volumes Removed: NA  
 e. Begin Purge Time: 1700 End Purge Time: 1730

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±1%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	5	100	24.27	5.65	0.073	137.1	7.61	10.6	clear	none	22.36
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**PURGING VALUES**

2	10	100	25.32	5.35	0.073	153.5	6.03	8.59			22.37
3	15	100	24.67	5.10	0.071	189.9	5.87	6.32			22.37
4	20	100	24.41	5.06	0.070	197.6	5.74	6.10			22.38
5	25	100	24.36	5.04	0.069	199.4	5.66	5.89			22.38
6	30	100	24.20	5.02	0.069	201.2	5.59	5.96	↓	↓	22.38

6/9/14 R Lene

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: R Lene

Sampling Method(s) & Equip: Peristaltic Pump Dedicated teflon tubing

Sample I.D. (Name, Date, Time): MW-124 6/9/14 1735

Sample Analytical Parameters/Method: Vocs, DDE; Dow Therm A; Nat Attenuation

HACH s/n: 101101442; YSI s/n: 28078

Sample Start Time: 1735

End Sample Time: 1805

**COMMENTS:**

PE: 0.6 mg/L

WELL NO.: RW-123

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 80's Sampling Date: 06/9/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: n/a (ft)
- b. Depth to Water: 111.63 (ft)
- c. Depth to DNAPL: n/a (ft)
- d. Total Well Depth: 25.98 (ft)
- e. LNAPL Thickness: (a-b) n/a (ft)
- f. DNAPL Thickness: (c-d) n/a (ft)
- g. Length of Water Column: 85.71 (ft) (a-d)
- h. Well Volume: 13.9 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic 12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1515 End Purge Time: 1545

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	5	100	29.36	7.13	0.191	-74.7	4.72	1.61	clear	none	25.98
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**PURGING VALUES**

2	10	100	29.12	7.17	0.191	-103.3	2.28	6.72	↓	↓	26.00
3	15	100	29.06	7.19	0.192	-105.8	2.08	5.40	↓	↓	26.00
4	20	100	29.08	7.22	0.192	-110.4	1.72	5.17	↓	↓	26.00
5	25	100	29.12	7.24	0.191	-112.8	1.61	4.86	↓	↓	26.00
6	30	100	29.16	7.25	0.193	-114.7	1.50	4.61	↓	↓	26.01

6/9/14 R Lane

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated Teflon tubing

Sample I.D. (Name, Date, Time): RW-123 6/9/14 1550

Sample Analytical Parameters/Method: (Vocs), DDE; Dow Therm A; (Nat Attenuation)

HACH s/n: 28078 ; YSI s/n: 10411442

Sample Start Time: 1550

End Sample Time: 1650

**COMMENTS:**

FE = 0.2 mg/L

WELL NO.:

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.: MW-122

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 80's Sampling Date: 06/9/2014

#### 1. WATER LEVEL DATA (measured from top of inner well casing)

- a. Depth to LNAPL: n/a (ft)
- b. Depth to Water: 19.43 (ft)
- c. Depth to DNAPL: n/a (ft)
- d. Total Well Depth: 57.39 (ft)
- e. LNAPL Thickness: (a-b) n/a (ft)
- f. DNAPL Thickness: (c-d) n/a (ft)
- g. Length of Water Column: 37.96 (ft) (a-d)
- h. Well Volume: 6.18 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

#### 2. WELL PURGE DATA

- a. Purge Method: Peristaltic 12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1400 End Purge Time: 1435

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
PURGE V											
1	5	100	25.16	5.94	0.161	37.5	8.07	3.01	clear	none	19.46
2	10	100	25.06	5.92	0.190	25.6	2.93	1.92			19.46
3	15	100	24.26	5.98	0.148	52.6	2.38	1.65			19.46
4	20	100	24.78	5.95	0.095	66.0	3.63	1.42			19.47
5	25	100	24.43	5.89	0.088	72.7	3.71	1.26			19.47
6	30	100	24.40	5.88	0.085	73.9	3.68	1.32			19.47
7	35	100	24.53	5.88	0.085	75.0	3.69	1.24	↓	↓	19.47
6/9/14 R Lane											

#### 3. SAMPLE COLLECTION DATA

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump, Dedicated teflon tubing

Sample I.D. (Name, Date, Time): mw-122 6/9/14 1440

Sample Analytical Parameters/Method: Vocs, DDE; Dow Therm A, Nat Attenuation

HACH s/n: 28078; YSI s/n: 10A101442

Sample Start Time: 1440

End Sample Time: 1505

#### COMMENTS:

FE = 0.06 mg/L

WELL NO.: RW-137

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: P. Cloudy Sampling Date: 06/9/2014

1. WATER LEVEL DATA (measured from top of inner well casing)
- a. Depth to LNAPL: NA (ft)
  - b. Depth to Water: 22.74 (ft)
  - c. Depth to DNAPL: NA (ft)
  - d. Total Well Depth: 107.21 (ft)
  - e. LNAPL Thickness: (a-b) NA (ft)
  - f. DNAPL Thickness: (c-d) NA (ft)
  - g. Length of Water Column: 84.47 (ft) (a-d)
  - h. Well Volume: 13.8 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

2. WELL PURGE DATA
- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
  - b. Field Testing Equipment: YSI 556; Hach
  - c. Required Total Purge Volume (1f x 2c) (gals.): NA
  - d. Total Volume and Number of Well Volumes Removed: NA
  - e. Begin Purge Time: 1700 End Purge Time: 1730

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
PRE I											
1	0005	200	20.07	6.21	142	68.6	1.87	2.6	clear	None	22.75
PURC											
2	10	200	19.53	6.21	142	66.8	1.57	3.8	clear	None	22.75
3	15	200	19.51	6.21	142	66.1	1.51	1.9	clear	None	22.75
4	20	200	19.48	6.20	142	65.7	1.46	1.6	clear	None	22.75
5	25	200	19.46	6.20	141	65.2	1.44	1.4	clear	None	22.75
6	30	200	19.44	6.20	141	64.8	1.43	1.2	clear	None	22.75
<del>6/9/14 AH</del>											

3. SAMPLE COLLECTION DATA Sampling Personnel: AH  
 Sampling Method(s) & Equip: low flow w/ Peristaltic pump  
 Sample I.D. (Name, Date, Time): RW-137, 6/9/14, 1730  
 Sample Analytical Parameters/Method: (Vocs; DDE; Dow Therm A; Nat Attenuation)  
 HACH s/n: 17868 ; YSI s/n: 104100442

Sample Start Time: 1730 End Sample Time:

COMMENTS: Fe<sup>+2</sup> = 0.2 mg/l m/s/mso taken

WELL NO.: MW-136

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny; 90°s Sampling Date: 06/9/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

a. Depth to LNAPL: N/A (ft) b. Depth to Water: 22.84 (ft)  
 c. Depth to DNAPL: N/A (ft) d. Total Well Depth: 60.12 (ft)  
 e. LNAPL Thickness: (a-b) N/A (ft) f. DNAPL Thickness: (c-d) N/A (ft)  
 g. Length of Water Column: 37.28 (ft) (a-d)  
 h. Well Volume: 6.1 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

a. Purge Method: Peristaltic 12v pump/Ext Well/Surface Water  
 b. Field Testing Equipment: YSI 556; Hach  
 c. Required Total Purge Volume (1f x 2c) (gals.): NA  
 d. Total Volume and Number of Well Volumes Removed: NA  
 e. Begin Purge Time: 1500 End Purge Time: 1525

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	5	100	21.82	5.89	108	142.1	8.93	1.3	clear	None	22.87
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**PURGING VALUES**

2	10	100	23.75	5.65	101	146.6	5.41	1.1	clear	None	22.87
3	15	100	23.51	5.60	89	152.6	5.13	1.0	clear	None	22.87
4	20	100	23.49	5.60	87	150.8	5.11	0.9	clear	None	22.87
5	25	100	23.48	5.59	86	150.0	5.07	0.8	clear	None	22.87

*6/9/14 AH*

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: A. Hill

Sampling Method(s) & Equip: low flow w/ peristaltic pump

Sample I.D. (Name, Date, Time): MW-136, 6/9/14, 1525

Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation

HACH s/n: 17868; YSI s/n: 10H100442

Sample Start Time: 1525

End Sample Time: 1545

**COMMENTS:**

Dup taken (DW-1 @ 1530) Fe<sup>2+</sup> = 0.0 mg/l





WELL NO.: RW-111

## GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: SUNNY 80° Sampling Date: 06/10/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

a. Depth to LNAPL: N/A (ft) b. Depth to Water: 6.98 (ft)  
 c. Depth to DNAPL: N/A (ft) d. Total Well Depth: 61.00 (ft)  
 e. LNAPL Thickness: (a-b) N/A (ft) f. DNAPL Thickness: (c-d) N/A (ft)  
 g. Length of Water Column: 54.02 (ft) (a-d)  
 h. Well Volume: 8.8 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water  
 b. Field Testing Equipment: YSI 556; Hach  
 c. Required Total Purge Volume (1f x 2c) (gals.): NA  
 d. Total Volume and Number of Well Volumes Removed: NA  
 e. Begin Purge Time: 1040 End Purge Time: 1115

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

INT.	4	200	18.90	6.24	173	35.6	5.78	8.80	CLEAR	NO	7.11
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**PURGING VALUES**

2	10	200	18.76	6.23	175	21.9	2.18	6.91	CLEAR	NO	7.14
3	15	200	18.19	6.04	171	11.8	1.03	6.13	CLEAR	NO	7.15
4	20	200	17.98	6.00	168	4.7	0.86	4.88	CLEAR	NO	7.17
5	25	200	17.87	5.88	165	1.0	0.79	3.76			7.18
6	30	200	17.84	5.87	163	-2.0	0.75	3.45			7.18
7	35	200	17.83	5.87	162	-2.9	0.72	3.11	↓	↓	7.19

*J-LC 6/10/14*

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: JEFF LEAVER

Sampling Method(s) & Equip: LOW FLOW, PUMP TUBING

Sample I.D. (Name, Date, Time): RW-111 6/10/14 1117

Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm-A; Nat Attenuation

HACH s/n: 09120C; YSI s/n: 09K101305; Fe<sup>+2</sup> = 0.0 mg/l

Sample Start Time: 1117

End Sample Time: 1138

COMMENTS:



WELL NO.: MW-116

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: SUNNY 86° Sampling Date: 06/10/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)      b. Depth to Water: 4.94 (ft)  
 c. Depth to DNAPL: N/A (ft)      d. Total Well Depth: 31.29 (ft)  
 e. LNAPL Thickness: (a-b) N/A (ft)      f. DNAPL Thickness: (c-d) N/A (ft)  
 g. Length of Water Column: 26.35 (ft) (a-d)  
 h. Well Volume: 4.3 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water  
 b. Field Testing Equipment: YSI 556; Hach  
 c. Required Total Purge Volume (1f x 2c) (gals.): NA  
 d. Total Volume and Number of Well Volumes Removed: NA  
 e. Begin Purge Time: 1220 End Purge Time: 1258

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

INT.	3	200	17.67	6.86	83	48.2	6.26	8.77	CLEAR	NO	5.15
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**PURGING VALUES**

2	10	200	18.89	5.91	83	65.4	4.91	8.04	CLEAR	NO	5.17
3	16	200	18.12	5.40	80	98.7	3.73	5.51	CLEAR	NO	5.18
4	21	200	17.91	5.08	80	111.0	3.28	3.80			5.18
5	27	200	17.86	4.94	79	115.5	3.09	3.46			5.19
6	33	200	17.83	4.88	79	116.9	3.02	2.89			5.19
7	38	200	17.80	4.85	79	117.2	2.97	2.81	↓	↓	5.20

*J.S. 6/10/14*

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: JEFF LEAVEL

Sampling Method(s) & Equip: LOW FLOW, PUMP TURNING  
 Sample I.D. (Name, Date, Time): MW-116, 6/10/14, 1300  
 Sample Analytical Parameters/Method: Vocs; DDE; Dow Thermo A; Nat Attenuation  
 HACH s/n: 09120C; YSI s/n: 09K101305; Fe+2 > 0.0 mg/L

Sample Start Time: 1300

End Sample Time: 1327

COMMENTS:

WELL NO.: MW-112

## GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny; 90°C Sampling Date: 06/10/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: NA (ft)
- b. Depth to Water: 12.94 (ft)
- c. Depth to DNAPL: NA (ft)
- d. Total Well Depth: 38.83 (ft)
- e. LNAPL Thickness: (a-b) NA (ft)
- f. DNAPL Thickness: (c-d) NA (ft)
- g. Length of Water Column: 35.89 (ft) (a-d)
- h. Well Volume: 4.2 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1225 End Purge Time: 1256

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
1	0	100	18.57	6.05	82	117.8	7.90	0.80	Clear	None	12.94
2	5	100	17.93	5.84	77	143.5	5.52	1.31	Clear	None	12.94
3	10	100	18.18	5.87	77	150.6	4.99	1.09	Clear	None	12.94
4	15	100	18.02	5.85	76	155.8	4.98	2.03	Clear	None	12.94
5	20	100	18.08	5.85	76	157.9	4.83	1.97	Clear	None	12.94
6	25	100	18.09	5.85	76	158.1	4.80	1.90	Clear	None	12.94
<del>6/10/14 All</del>											

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: A.H.H.  
 Sampling Method(s) & Equip: low flow w/ Peristaltic pump  
 Sample I.D. (Name, Date, Time): MW-112, 6/10/14, 1250  
 Sample Analytical Parameters/Method: Vocs, DDE, Dow Therm A, Nat Attenuation  
 HACH s/n: 17868 ; YSI s/n: 104100442

Sample Start Time: 1250

End Sample Time: 1320

**COMMENTS:**

Fe<sup>+2</sup> = 0.0 mg/l

WELL NO.: RW-113

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 80s Sampling Date: 06/10/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)
- b. Depth to Water: 18.84 (ft)
- c. Depth to DNAPL: N/A (ft)
- d. Total Well Depth: 69.95 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)
- f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 51.11 (ft) (a-d)
- h. Well Volume: 8.33 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1400 End Purge Time: 1425

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
PRE											
0	0	200	18.53	7.71	161	-42.8	1.32	0.82	Clear	None	19.25
PURGE											
1	5	200	18.40	7.79	161	-70.7	1.03	1.20	Clear	None	19.25
2	10	200	18.67	7.86	163	-85.9	0.87	0.32	Clear	None	19.25
3	15	200	18.76	7.88	162	-42.2	0.69	1.03	Clear	None	19.25
4	20	200	18.62	7.90	163	-100.2	0.65	0.98	Clear	None	19.25
5	25	200	18.73	7.89	162	-47.4	0.54	1.03	Clear	None	19.25
<del>6/10/14 All</del>											

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: A.H.I.V.

Sampling Method(s) & Equip: Low flow  
 Sample I.D. (Name, Date, Time): RW-113, 6/10/14, 1425  
 Sample Analytical Parameters/Method: Voc's, DDE, Dow Therm A, Nat Attenuation  
 HACH s/n: 17868; YSI s/n: 601100442

Sample Start Time: 1425 End Sample Time: 1440

COMMENTS: Fe<sup>2+</sup> = 0.0 mg/l

WELL NO.: MW-102

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 80'S Sampling Date: 06/10/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: n/A (ft)      b. Depth to Water: 25.21 (ft)
- c. Depth to DNAPL: n/A (ft)      d. Total Well Depth: 45.80 (ft)
- e. LNAPL Thickness: (a-b) n/A (ft)      f. DNAPL Thickness: (c-d) n/A (ft)
- g. Length of Water Column: 20.59 (ft)      (a-d)
- h. Well Volume: 3.35 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
②	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic 12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 0945      End Purge Time: 1015

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
<b>PURGE VALUES</b>											
1	5	100	24.28	4.81	0.166	204.4	3.57	14.6	clear	none	25.25
2	10	100	24.67	4.77	0.163	213.7	0.87	6.83			25.26
3	15	100	24.82	4.82	0.164	212.6	0.81	6.21			25.26
4	20	100	24.97	4.86	0.164	211.4	0.77	5.87			25.26
5	25	100	25.10	4.88	0.163	212.9	0.74	5.65			25.26
6	30	100	25.19	4.87	0.164	210.8	0.70	5.41	↓	↓	25.27
6/10/14 R Lane											

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated teflon tubing

Sample I.D. (Name, Date, Time): MW-102 6/10/14 1020

Sample Analytical Parameters/Method: Vocs, DDE, Dow Therm, Nat Attenuation

HACH s/n: 28078 ; YSI s/n: 10H100442

Sample Start Time: 1020

End Sample Time: 1045

COMMENTS:

WELL NO.: RW-83A

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 80's Sampling Date: 06/10/2014

1. WATER LEVEL DATA (measured from top of inner well casing)
- a. Depth to LNAPL: n/a (ft)
  - b. Depth to Water: 7.05 (ft)
  - c. Depth to DNAPL: n/a (ft)
  - d. Total Well Depth: 35.96 (ft)
  - e. LNAPL Thickness: (a-b) n/a (ft)
  - f. DNAPL Thickness: (c-d) n/a (ft)
  - g. Length of Water Column: 28.91 (ft) (a-d)
  - h. Well Volume: 4.71 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

2. WELL PURGE DATA
- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
  - b. Field Testing Equipment: YSI 556; Hach
  - c. Required Total Purge Volume (1f x 2c) (gals.): NA
  - d. Total Volume and Number of Well Volumes Removed: NA
  - e. Begin Purge Time: 1055 End Purge Time: 1125

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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PRE PURGE VALUES

1	5	300	28.39	5.17	0.109	206.8	1.61	10.6	clear	Yes	7.06
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PURGING VALUES

2	10	300	28.49	5.30	0.120	196.9	1.06	6.21			7.06
3	15	300	28.60	5.44	0.129	182.6	0.92	3.19			7.06
4	20	300	28.82	5.53	0.130	179.1	0.84	1.87			7.06
5	25	300	28.91	5.55	0.131	177.9	0.77	1.76			7.06
6	30	300	29.03	5.56	0.131	178.4	0.73	1.68	↓	↓	7.06

*6/10/14 R-Lane*

3. SAMPLE COLLECTION DATA

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump dedicated teflon tubing

Sample I.D. (Name, Date, Time): RW-83A 6/10/14 1130

Sample Analytical Parameters/Method: Vocs (DDE; Dow Therm A) Nat Attenuation

HACH s/n: 28078 ; YSI s/n: 10H100442

Sample Start Time: 1130 End Sample Time: 1200

COMMENTS:  
MS/msd Taken



WELL NO.: RW-84

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 80's Sampling Date: 06/10/2014

1. WATER LEVEL DATA (measured from top of inner well casing)
- a. Depth to LNAPL: n/a (ft)
  - b. Depth to Water: 9.78 (ft)
  - c. Depth to DNAPL: n/a (ft)
  - d. Total Well Depth: 78.50 (ft)
  - e. LNAPL Thickness: (a-b) n/a (ft)
  - f. DNAPL Thickness: (c-d) n/a (ft)
  - g. Length of Water Column: 68.72 (ft) (a-d)
  - h. Well Volume: 44.87 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

2. WELL PURGE DATA
- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
  - b. Field Testing Equipment: YSI 556; Hach
  - c. Required Total Purge Volume (1f x 2c) (gals.): NA
  - d. Total Volume and Number of Well Volumes Removed: NA
  - e. Begin Purge Time: 1210 End Purge Time: \_\_\_\_\_

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
<b>PRE PURGE VALUES</b>											
1	5	100	28.10	5.09	0.125	33.3	2.02	4.16	clear	yes	9.81
<b>GING VALUES</b>											
2	10	100	28.26	5.42	0.125	18.4	1.43	3.22			9.81
3	15	100	28.34	5.58	0.124	9.6	1.16	1.64			9.83
4	20	100	28.46	5.66	0.125	6.8	1.09	1.36			9.83
5	25	100	28.61	5.68	0.126	5.3	1.04	1.28			9.85
6	30	100	28.73	5.69	0.126	5.0	1.07	1.20	↓	↓	9.86
6/10/14											

3. SAMPLE COLLECTION DATA

Sampling Personnel: R. Lane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated teflon tubing

Sample I.D. (Name, Date, Time): RW-84 6/10/14 1245

Sample Analytical Parameters/Method: Vocs (DDE; Dow Therm A) Nat Attenuation

HACH s/n: 28078 ; YSI s/n: 10H100442

Sample Start Time: 1245 End Sample Time: 1310

COMMENTS:

WELL NO.: MW-81

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 80's Sampling Date: 06/10/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

a. Depth to LNAPL: n/a (ft) b. Depth to Water: 9.24 (ft)  
 c. Depth to DNAPL: n/a (ft) d. Total Well Depth: 37.00 (ft)  
 e. LNAPL Thickness: (a-b)            (ft) f. DNAPL Thickness: (c-d) n/a (ft)  
 g. Length of Water Column: 27.76 (ft) (a-d)  
 h. Well Volume: 18.12 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
<u>4</u>	0.653
6	1.470

**2. WELL PURGE DATA**

a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water  
 b. Field Testing Equipment: YSI 556; Hach  
 c. Required Total Purge Volume (1f x 2c) (gals.): NA  
 d. Total Volume and Number of Well Volumes Removed: NA  
 e. Begin Purge Time: 1320 End Purge Time:           

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	5	100	25.02	5.89	0.126	0.7	1.08	17.6	clear	Yes	9.26
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**PURGING VALUES**

2	10	100	25.21	6.12	0.125	-13.6	0.82	9.72			9.26
3	15	100	25.39	6.17	0.125	-19.4	0.74	9.44			9.27
4	20	100	25.52	6.20	0.124	-22.6	0.68	8.87			9.27
5	25	100	25.70	6.21	0.125	-23.8	0.62	8.79			9.27
6	30	100	25.88	6.21	0.124	-23.1	0.64	8.72	↓	↓	9.27

6/10/14 R Lane

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated Teflon tubing

Sample I.D. (Name, Date, Time): MW-81 6/10/14 1355

Sample Analytical Parameters/Method: Vocs (DDE; Dow Therm A) Nat Attenuation

HACH s/n: 28078 YSI s/n: 10H100442

Sample Start Time: 1355

End Sample Time: 1420

COMMENTS:

WELL NO.: MW-41

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 90 Sampling Date: 06/10/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: n/A (ft)
- b. Depth to Water: 12.60 (ft)
- c. Depth to DNAPL: n/A (ft)
- d. Total Well Depth: 50.00 (ft)
- e. LNAPL Thickness: (a-b) n/A (ft)
- f. DNAPL Thickness: (c-d) n/A (ft)
- g. Length of Water Column: 37.40 (ft) (a-d)
- h. Well Volume: 6.09 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1430 End Purge Time:

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	5	<del>100</del>	23.59	6.35	0.162	-39.8	1.06	28.5	clear	none	12.67
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**PURGING VALUES**

2	10	100	23.59	6.51	0.160	-51.6	1.10	21.7			12.67
3	15	100	23.60	6.62	0.159	-62.7	1.22	17.8			12.69
4	20	100	23.64	6.64	0.159	-64.1	1.26	15.4			12.69
5	25	100	23.65	6.65	0.160	-62.9	1.27	15.0			12.70
6	30	100	23.69	6.67	0.158	-61.4	1.29	15.6	↓	↓	12.70

*6/10/14 R Lane*

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated teflon tubing

Sample I.D. (Name, Date, Time): MW-41 6/10/14 1500

Sample Analytical Parameters/Method: Vocs (DDE) Dow Therm A; Nat Attenuation

HACH s/n: 28078 ; YSI s/n: 10H100442

Sample Start Time: 1500

End Sample Time: 1505

COMMENTS:

WELL NO.: RW-115

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny, 90° Sampling Date: 06/17/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: NA (ft) b. Depth to Water: 32.91 (ft)  
 c. Depth to DNAPL: NA (ft) d. Total Well Depth: 88.65 (ft)  
 e. LNAPL Thickness: (a-b) NA (ft) f. DNAPL Thickness: (c-d) NA (ft)  
 g. Length of Water Column: \_\_\_\_\_ (ft) (a-d)  
 h. Well Volume: \_\_\_\_\_ (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water  
 b. Field Testing Equipment: YSI 556; Hach  
 c. Required Total Purge Volume (1f x 2c) (gals.): NA  
 d. Total Volume and Number of Well Volumes Removed: NA  
 e. Begin Purge Time: 1520 End Purge Time: 1545

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	3	200	19.52	7.48	159	52.0	2.64	13.2	Clear	None	32.93
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**PURGING VALUES**

2	5	200	17.52	7.01	160	53.7	2.60	7.1	Clear	None	32.93
3	10	200	17.55	6.94	155	53.8	3.47	6.9	Clear	None	32.93
4	15	200	17.49	6.91	151	54.6	3.82	5.6	Clear	None	32.93
5	20	200	17.47	6.88	149	55.4	2.88	5.1	Clear	None	32.93
6	25	200	17.46	6.87	149	55.9	3.90	4.8	Clear	None	32.93

~~6/10/14 AH~~

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: A. Hill

Sampling Method(s) & Equip: low flow submersible pump

Sample I.D. (Name, Date, Time): RW-115, 6/10/14, 1545

Sample Analytical Parameters/Method: Vocs; PDE; Dow Therm A; Nat Attenuation

HACH s/n: 17868 ; YSI s/n: 104100442

Sample Start Time: 1545

End Sample Time: 1600

COMMENTS:

Fe<sup>2+</sup> = 0.0 mg/l

WELL NO.: Rw-08

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 90's Sampling Date: 06/19/2014

1. WATER LEVEL DATA (measured from top of inner well casing)
- a. Depth to LNAPL: n/a (ft)
  - b. Depth to Water: 15.24 (ft)
  - c. Depth to DNAPL: n/a (ft)
  - d. Total Well Depth: 154.70 (ft)
  - e. LNAPL Thickness: (a-b) n/a (ft)
  - f. DNAPL Thickness: (c-d) n/a (ft)
  - g. Length of Water Column: 139.46 (ft) (a-d)
  - h. Well Volume: 91.06 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
<u>4</u>	0.653
6	1.470

2. WELL PURGE DATA
- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
  - b. Field Testing Equipment: YSI 556; Hach
  - c. Required Total Purge Volume (1f x 2c) (gals.): NA
  - d. Total Volume and Number of Well Volumes Removed: NA
  - e. Begin Purge Time: 1515 End Purge Time:

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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PRE PURGE VALUES

1	<u>5</u>	100	23.97	7.30	0.254	-62.7	1.37	5.96	clear	Yes	15.27
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PURGING VALUES

2	10	100	24.10	7.61	0.261	-74.8	1.03	4.28	↓	↓	15.27
3	15	100	24.21	7.69	0.263	-78.1	0.92	3.43	↓	↓	15.28
4	20	100	24.36	7.73	0.263	-80.4	0.83	3.27	↓	↓	15.28
5	25	100	24.43	7.75	0.264	-81.9	0.80	3.11	↓	↓	15.28
6	30	100	24.51	7.76	0.265	-82.1	0.77	3.18	↓	↓	15.28

6/10/14 R Lane

3. SAMPLE COLLECTION DATA Sampling Personnel: R Lane  
 Sampling Method(s) & Equip: Peristaltic Pump Dedicated Teflon tubing  
 Sample I.D. (Name, Date, Time): Rw-08 6/10/14 1550  
 Sample Analytical Parameters/Method: Vocs: DDE; Dow Therm A; Nat Attenuation  
 HACH s/n: 28078 ; YSI s/n: 101100442

Sample Start Time: 1550 End Sample Time: 1615  
 COMMENTS:

WELL NO.: MW-114

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 80s Sampling Date: 06/10/2014

1. WATER LEVEL DATA (measured from top of inner well casing)

a. Depth to LNAPL: N/A (ft) b. Depth to Water: 30.62 (ft)  
 c. Depth to DNAPL: N/A (ft) d. Total Well Depth: 56.15 (ft)  
 e. LNAPL Thickness: (a-b) N/A (ft) f. DNAPL Thickness: (c-d) N/A (ft)  
 g. Length of Water Column: 25.53 (ft) (a-d)  
 h. Well Volume: 4.16 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

2. WELL PURGE DATA

a. Purge Method: Peristaltic 12v pump/Ext Well/Surface Water  
 b. Field Testing Equipment: YSI 556; Hach  
 c. Required Total Purge Volume (1f x 2c) (gals.): NA  
 d. Total Volume and Number of Well Volumes Removed: NA  
 e. Begin Purge Time: 1615 End Purge Time: 1640

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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PRE PURGE VALUES

1	3	300	18.92	6.53	91	113.4	7.80	784	Tan	None	30.63
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PURGING VALUES

2	5	300	17.46	5.98	80	144.8	6.54	30.8	Tan	None	30.63
3	10	300	17.58	5.79	75	186.0	6.59	22.3	Clear	None	30.63
4	15	300	17.60	5.77	73	186.7	6.61	14.7	Clear	None	30.63
5	20	300	17.62	5.75	73	187.2	6.64	8.4	Clear	None	30.63
6	25	300	17.63	5.74	72	188.1	6.69	6.9	Clear	None	30.63

~~Stroke AH~~

3. SAMPLE COLLECTION DATA

Sampling Personnel: A. Hill  
 Sampling Method(s) & Equip: Low flow submersible pump  
 Sample I.D. (Name, Date, Time): MW-114 6/10/14 1640  
 Sample Analytical Parameters/Method: Vocs DDE; Dow Therm A; Nat Attenuation  
 HACH s/n: 17868; YSI s/n: 10H100442

Sample Start Time: 1640 End Sample Time: 1700  
 COMMENTS: Dup (DW-3 @ 1700) Fe<sup>+2</sup> =  $\phi$  mg/l

WELL NO.: RW-85

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC

Weather Conditions: SUNNY 91° Sampling Date: 06/19/2014

1. WATER LEVEL DATA (measured from top of inner well casing)
- a. Depth to LNAPL: N/A (ft) b. Depth to Water: 12.35 (ft)
  - c. Depth to DNAPL: N/A (ft) d. Total Well Depth: 52.00 (ft)
  - e. LNAPL Thickness: (a-b) N/A (ft) f. DNAPL Thickness: (c-d) N/A (ft)
  - g. Length of Water Column: 39.65 (ft) (a-d)
  - h. Well Volume: 6.5 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

2. WELL PURGE DATA
- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
  - b. Field Testing Equipment: YSI 556; Hach
  - c. Required Total Purge Volume (1f x 2c) (gals.): NA
  - d. Total Volume and Number of Well Volumes Removed: NA
  - e. Begin Purge Time: 1500 End Purge Time: 1540

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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PRE PURGE VALUES

INT	3	300	25.90	6.31	202	31.0	5.80	449.1	ORANGE	NO	12.41
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PURGING VALUES

2	9	260	24.88	5.79	203	55.8	3.64	206.0	TAN	NO	12.44
3	15	260	24.51	5.20	203	76.1	2.03	122.7	TAN		12.46
4	20	260	24.39	5.02	204	86.7	1.75	98.3	TAN		12.48
5	25	260	24.30	4.89	204	94.0	1.09	66.2	CLOUDY		12.49
6	30	260	24.27	4.70	205	99.6	0.86	57.0			12.51
7	35	260	24.24	4.66	205	101.4	0.80	55.1			12.53
8	40	260	24.21	4.62	205	102.0	0.77	53.9	↓	↓	12.54

3. SAMPLE COLLECTION DATA Sampling Personnel: JEFF LEAVEL  
 Sampling Method(s) & Equip: LOW FLOW PUMP TUBING  
 Sample I.D. (Name, Date, Time): RW-85 6/10/14 1544  
 Sample Analytical Parameters/Method: VOCS; DDE; Dow Therm A; Nat Attenuation  
 HACH s/n: 09120C; YSI s/n: 09K101305

\* TOOK DUP (LOW-2 @ 1800)  
 Sample Start Time: 1544 End Sample Time: 1600  
 COMMENTS:

WELL NO.: RW-87

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: SUNNY 93° Sampling Date: 06/10/2014

#### 1. WATER LEVEL DATA (measured from top of inner well casing)

- a. Depth to LNAPL: N/A (ft)
- b. Depth to Water: 7.22 (ft)
- c. Depth to DNAPL: N/A (ft)
- d. Total Well Depth: 29.00 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)
- f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 21.78 (ft) (a-d)
- h. Well Volume: 3.6 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

#### 2. WELL PURGE DATA

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1610 End Purge Time: 1645

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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#### PRE PURGE VALUES

FNT	5	140	27.18	6.13	263	48.7	4.51	11.9	CLEAR	NO	7.44
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#### PURGING VALUES

2	10	100	27.46	6.00	264	50.1	1.63	10.0	CLEAR	NO	7.48
3	15	100	27.62	5.93	265	53.0	1.47	9.16			7.51
4	20	100	27.70	5.87	265	55.3	1.39	7.22			7.54
5	25	100	27.78	5.84	266	56.4	1.33	5.91			7.56
6	30	100	27.82	5.82	266	56.9	1.25	5.50			7.58
7	35	100	27.85	5.81	266	57.5	1.21	4.67	↓	↓	7.60

*J.J. 6/10/14*

#### 3. SAMPLE COLLECTION DATA

Sampling Personnel: JEFF LEAVER

Sampling Method(s) & Equip: LOW FLOW, PUMP TUBING

Sample I.D. (Name, Date, Time): RW-87, 6/10/14, 1647

Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation

HACH s/n: 09120C; YSI s/n: 09K101305

Sample Start Time: 1647

End Sample Time: 1710

COMMENTS:



WELL NO.: MW - 42

## GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 90's Sampling Date: 06/10/2014

- 1. WATER LEVEL DATA** (measured from top of inner well casing)
- a. Depth to LNAPL: n/a (ft)
  - b. Depth to Water: 21.03 (ft)
  - c. Depth to DNAPL: n/a (ft)
  - d. Total Well Depth: 91.00 (ft)
  - e. LNAPL Thickness: (a-b) n/a (ft)
  - f. DNAPL Thickness: (c-d) n/a (ft)
  - g. Length of Water Column: 69.97 (ft) (a-d)
  - h. Well Volume: 45.69 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

- 2. WELL PURGE DATA**
- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
  - b. Field Testing Equipment: YSI 556; Hach
  - c. Required Total Purge Volume (1f x 2c) (gals.): NA
  - d. Total Volume and Number of Well Volumes Removed: NA
  - e. Begin Purge Time: 1630 End Purge Time: 1720

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	5	200	21.68	6.82	0.111	33.4	4.72	137	cloudy	Yes	21.06
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**PURGING VALUES**

2	15	200	21.81	6.77	0.107	37.1	4.01	120			21.08
3	25	200	21.89	6.70	0.091	39.6	3.86	112			21.11
4	35	200	21.96	6.66	0.083	41.4	3.70	109			21.12
5	40	200	22.03	6.64	0.081	42.0	3.52	114			21.12
6	45	200	22.11	6.64	0.080	43.5	3.48	118			21.13
7	50	200	22.19	6.63	0.079	44.8	3.43	115	↓	↓	21.13
6/10/14 R Lane											

**3. SAMPLE COLLECTION DATA** Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated teflon tubing

Sample I.D. (Name, Date, Time): MW-42 6/10/14 1725

Sample Analytical Parameters/Method: Vocs (DDE; Dow Therm A; Nat Attenuation)

HACH s/n: 28078 ; YSI s/n: 10H100442

Sample Start Time: ~~1750~~ 1725 End Sample Time: 1740

COMMENTS: well ped broken in pieces

WELL NO.: MW-09A

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: sunny 93° Sampling Date: 06/19/2014

#### 1. WATER LEVEL DATA (measured from top of inner well casing)

- a. Depth to LNAPL: N/A (ft) b. Depth to Water: 19.28 (ft)  
 c. Depth to DNAPL: N/A (ft) d. Total Well Depth: 67.00 (ft)  
 e. LNAPL Thickness: (a-b) N/A (ft) f. DNAPL Thickness: (c-d) N/A (ft)  
 g. Length of Water Column: 47.72 (ft) (a-d)  
 h. Well Volume: 7.8 (gal)

Conversion Factors (a x cf = b)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

#### 2. WELL PURGE DATA

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water  
 b. Field Testing Equipment: YSI 556; Hach  
 c. Required Total Purge Volume (1f x 2c) (gals.): NA  
 d. Total Volume and Number of Well Volumes Removed: NA  
 e. Begin Purge Time: 1717 End Purge Time: 1753

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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#### PRE PURGE VALUES

INT	4	150	25.27	6.04	63	81.3	8.01	8.04	CLEAR	NO	19.57
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#### PURGING VALUES

2	10	100	24.71	5.19	59	118.5	4.54	6.33	CLEAR	NO	19.64
3	15	100	24.40	4.90	57	161.3	4.29	6.04			19.68
4	20	100	24.23	4.69	57	184.4	4.13	4.97			19.73
5	25	100	24.11	4.61	56	190.0	4.01	4.41			19.77
6	30	100	24.04	4.57	56	192.6	3.96	4.20			19.80
7	36	100	24.00	4.54	56	193.2	3.92	3.98	↓	↓	19.82

*J. J. 6/10/14*

#### 3. SAMPLE COLLECTION DATA

Sampling Personnel: JEFF LEAVER

Sampling Method(s) & Equip: LOW FLOW, PUMP TUBING

Sample I.D. (Name, Date, Time): MW-09A, 6/10/14, 1755

Sample Analytical Parameters/Method: VOES, DDE; Dow Therm A; Nat Attenuation

HACH s/n: 09120C; YSI s/n: 09K101305

Sample Start Time: 1755

End Sample Time: 1905

COMMENTS:

WELL NO.: MW-39

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 90's Sampling Date: 06/10/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: n/A (ft) b. Depth to Water: 19.73 (ft)
- c. Depth to DNAPL: n/A (ft) d. Total Well Depth: 55.30 (ft)
- e. LNAPL Thickness: (a-b) n/A (ft) f. DNAPL Thickness: (c-d) n/A (ft)
- g. Length of Water Column: 35.57 (ft) (a-d)
- h. Well Volume: 5.8 (gal)

Conversion Factors (a x cf = b)	
Well I.D.	Conv. Fact. (cf)
1	0.041
②	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1750 End Purge Time: 1825

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	5	100	24.21	6.06	0.153	-50.7	1.89	87.0	cloudy	Yes	19.76
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**PURGING VALUES**

2	15	100	24.37	6.40	0.155	-71.4	1.03	20.7	clear		19.78
3	20	100	24.48	6.42	0.155	-73.7	0.69	11.5			19.78
4	25	100	24.62	6.45	0.156	-76.0	0.51	6.03			19.79
5	30	100	24.78	6.45	0.156	-77.4	0.44	5.62			19.79
6	35	100	24.86	6.46	0.156	-78.9	0.40	5.56	↓	↓	19.79

*6/10/14 R Lane*

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated teflon tubing

Sample I.D. (Name, Date, Time): MW-39 6/10/14, 1830

Sample Analytical Parameters/Method: Vocs: DDE; Dow Therm A; Nat Attenuation

HACH s/n: 28078 ; YSI s/n: 10H100442

Sample Start Time: 1830

End Sample Time: 1850

COMMENTS:

WELL NO.: RW-133

**GROUNDWATER SAMPLE COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 90's Sampling Date: 06/10/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)
- b. Depth to Water: 56.41 (ft)
- c. Depth to DNAPL: N/A (ft)
- d. Total Well Depth: 116.48 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)
- f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 60.07 (ft) (a-d)
- h. Well Volume: 9.79 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1810 End Purge Time:

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
VALUES											
1	5	100	21.75	6.49	223	82.3	1.54	17.8	clear	none	57.41
VALUES											
2	10	-	18.81	6.47	227	89.5	0.86	13.0	clear	none	69.72
3	15	-	19.40	6.63	229	89.9	0.06	13.7	clear	none	82.43
4	20	-	19.42	6.64	226	90.3	0.87	14.7	clear	none	93.6
5	DRY	-	19.43	6.65	225	91.3	0.87	15.6	clear	none	110.48
6	-	-									

of 10/11/11 AK

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: A.H.11

Sampling Method(s) & Equip: Low flow Submersible Pump  
 Sample I.D. (Name, Date, Time): RW-133, 6/10/14, 1845  
 Sample Analytical Parameters/Method: VOCs; DDE; Dow Therm A (Nat Attenuation)  
 HACH s/n: 17868; YSI s/n: 104100442

Sample Start Time: 1845

End Sample Time: 1900

**COMMENTS:**

low yield well pumped dry and allow to recharge before sample  
Fe<sup>2+</sup> = 0.0 mg/L

WELL NO.: RW-79

## GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: SUNNY 90° Sampling Date: 06/10/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)    b. Depth to Water: 13.20 (ft)  
 c. Depth to DNAPL: N/A (ft)    d. Total Well Depth: 54.50 (ft)  
 e. LNAPL Thickness: (a-b) N/A (ft)    f. DNAPL Thickness: (c-d) N/A (ft)  
 g. Length of Water Column: 41.30 (ft) (a-d)  
 h. Well Volume: 6.7 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water  
 b. Field Testing Equipment: YSI 556; Hach  
 c. Required Total Purge Volume (1f x 2c) (gals.): NA  
 d. Total Volume and Number of Well Volumes Removed: NA  
 e. Begin Purge Time: 1814    End Purge Time: 1850

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

<u>INF</u>	<u>5</u>	<u>100</u>	<u>24.80</u>	<u>4.88</u>	<u>79</u>	<u>136.6</u>	<u>11.43</u>	<u>22.0</u>	<u>CLEAR</u>	<u>NO</u>	<u>13.32</u>
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**PURGING VALUES**

<u>2</u>	<u>10</u>	<u>100</u>	<u>25.35</u>	<u>4.74</u>	<u>79</u>	<u>133.7</u>	<u>9.09</u>	<u>15.6</u>	<u>CLEAR</u>	<u>NO</u>	<u>13.36</u>
<u>3</u>	<u>15</u>	<u>100</u>	<u>25.02</u>	<u>4.69</u>	<u>81</u>	<u>137.8</u>	<u>6.22</u>	<u>12.3</u>			<u>13.39</u>
<u>4</u>	<u>20</u>	<u>100</u>	<u>25.00</u>	<u>4.67</u>	<u>83</u>	<u>139.1</u>	<u>5.67</u>	<u>10.8</u>			<u>13.41</u>
<u>5</u>	<u>25</u>	<u>100</u>	<u>24.97</u>	<u>4.67</u>	<u>84</u>	<u>141.0</u>	<u>5.30</u>	<u>9.04</u>			<u>13.43</u>
<u>6</u>	<u>30</u>	<u>100</u>	<u>24.95</u>	<u>4.66</u>	<u>85</u>	<u>141.5</u>	<u>5.22</u>	<u>8.66</u>			<u>13.44</u>
<u>7</u>	<u>36</u>	<u>100</u>	<u>24.94</u>	<u>4.66</u>	<u>85</u>	<u>141.9</u>	<u>5.14</u>	<u>8.40</u>	<u>↓</u>	<u>↓</u>	<u>13.46</u>

<u>6/10/14</u>											

**3. SAMPLE COLLECTION DATA**    Sampling Personnel: JEFF LEAVEL  
 Sampling Method(s) & Equip: LOW FLOW, PUMP, TUBING  
 Sample I.D. (Name, Date, Time): RW-79, 6/10/14, 1853  
 Sample Analytical Parameters/Method: VOCs; DDE; Dow Therm A; Nat Attenuation  
 HACH s/n: 09120C ; YSI s/n: 09K101305

Sample Start Time: 1853    End Sample Time: 1920  
 COMMENTS:











WELL NO.: SW-7

**GROUNDWATER SAMPLE COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Cloudy, 80°s Sampling Date: 06/11/2014

1. WATER LEVEL DATA (measured from top of inner well casing)  
 a. Depth to LNAPL: NA (ft) b. Depth to Water: NA (ft)  
 c. Depth to DNAPL: NA (ft) d. Total Well Depth: NA (ft)  
 e. LNAPL Thickness: (a-b) NA (ft) f. DNAPL Thickness: (c-d) NA (ft)  
 g. Length of Water Column: NA (ft) (a-d)  
 h. Well Volume: NA (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

2. WELL PURGE DATA  
 a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water  
 b. Field Testing Equipment: YSI 556; Hach  
 c. Required Total Purge Volume (1f x 2c) (gals.): NA  
 d. Total Volume and Number of Well Volumes Removed: NA  
 e. Begin Purge Time: 1115 End Purge Time:

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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PRE PURGE VALUES

1	-	-	22.16	7.09	63	-49.6	7.49	12.1	clear	none	NA
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PURGING VALUES


3. SAMPLE COLLECTION DATA Sampling Personnel: A.H.II  
 Sampling Method(s) & Equip: Grabs  
 Sample I.D. (Name, Date, Time): SW-7, 6/11/14, 1125  
 Sample Analytical Parameters/Method: (Vocs) (ODE) (Dow Therm A) (Nat Attenuation)  
 HACH s/n: 31559 ; YSI s/n: 105110413

Sample Start Time: 1125 End Sample Time: 1140  
 COMMENTS:



WELL NO.: SW-6

GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.
Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC
Weather Conditions: Cloudy; 80's Sampling Date: 06/11/2014

1. WATER LEVEL DATA (measured from top of inner well casing)
a. Depth to LNAPL: N/A (ft) b. Depth to Water: NA (ft)
c. Depth to DNAPL: NA (ft) d. Total Well Depth: NA (ft)
e. LNAPL Thickness: (a-b) NA (ft) f. DNAPL Thickness: (c-d) NA (ft)
g. Length of Water Column: NA (ft) (a-d)
h. Well Volume: NA (gal)

Table with 2 columns: Well I.D., Conv. Fact. (cf). Rows 1-6 with values 0.041, 0.163, 0.653, 1.470.

2. WELL PURGE DATA
a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
b. Field Testing Equipment: YSI 556; Hach
c. Required Total Purge Volume (1f x 2c) (gals.): NA
d. Total Volume and Number of Well Volumes Removed: NA
e. Begin Purge Time: 1225 End Purge Time:

Table with 12 columns: Read No., Lapse Time, Purge Rate, Temp, pH, Spec. Cond., Eh/ORP, Diss O2, TURB, Color, Odor, Water Level. Row 1 contains handwritten data: 1, -, -, 22.14, 6.91, 58, -49.3, 6.99, 12.2, clear, none, NA.

6/11/14 AH

3. SAMPLE COLLECTION DATA Sampling Personnel: A Hill
Sampling Method(s) & Equip: grab
Sample I.D. (Name, Date, Time): SW-6, 6/11/14, 1235
Sample Analytical Parameters/Method: VOCs, DDE, (Dow Therm A), Nat Attenuation
HACH s/n: 31559 ; YSI s/n: 10J10413

Sample Start Time: 1235 End Sample Time: 1250
COMMENTS:

WELL NO.: SW-4

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: P. Cloudy; 80's Sampling Date: 06/11/2014

#### 1. WATER LEVEL DATA (measured from top of inner well casing)

- a. Depth to LNAPL: NA (ft)
- b. Depth to Water: NA (ft)
- c. Depth to DNAPL: NA (ft)
- d. Total Well Depth: NA (ft)
- e. LNAPL Thickness: (a-b) NA (ft)
- f. DNAPL Thickness: (c-d) NA (ft)
- g. Length of Water Column: NA (ft) (a-d)
- h. Well Volume: NA (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

#### 2. WELL PURGE DATA

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1300 End Purge Time:

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
1	-	-	21.04	7.31	86	-32.6	7.69	6.4	clear	none	NA
<p><i>6/11/14 All</i></p>											

#### 3. SAMPLE COLLECTION DATA

Sampling Personnel: A.Hill

Sampling Method(s) & Equip: grab  
 Sample I.D. (Name, Date, Time): SW-4, 6/11/14, 1310  
 Sample Analytical Parameters/Method: Voc, DDE, Dow Therm A, Nat Attenuation  
 HACH s/n: 31559 ; YSI s/n: 105110413

Sample Start Time: 1310

End Sample Time: 1330

COMMENTS:

WELL NO.: SW-3

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Cloudy, 80's Sampling Date: 06/11/2014

#### 1. WATER LEVEL DATA (measured from top of inner well casing)

a. Depth to LNAPL: NA (ft) b. Depth to Water: NA (ft)  
 c. Depth to DNAPL: NA (ft) d. Total Well Depth: NA (ft)  
 e. LNAPL Thickness: (a-b) NA (ft) f. DNAPL Thickness: (c-d) NA (ft)  
 g. Length of Water Column: NA (ft) (a-d)  
 h. Well Volume: NA (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

#### 2. WELL PURGE DATA

a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water  
 b. Field Testing Equipment: YSI 556; Hach  
 c. Required Total Purge Volume (1f x 2c) (gals.): NA  
 d. Total Volume and Number of Well Volumes Removed: NA  
 e. Begin Purge Time: 1340 End Purge Time:

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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PRE PURGE VALUES											
1	-	-	21.07	6.98	69	-48.2	7.11	8.3	clear	None	NA

PURGING VALUES											
<del>6/11/14 All</del>											

#### 3. SAMPLE COLLECTION DATA

Sampling Personnel: A. Hill

Sampling Method(s) & Equip: Grab  
 Sample I.D. (Name, Date, Time): SW-3, 6/11/14, 1350  
 Sample Analytical Parameters/Method: Vocs, DDE, Dow Therm A; Nat Attenuation  
 HACH s/n: 31559; YSI s/n: 10J110413

Sample Start Time: 1350 End Sample Time: 1405  
 COMMENTS:

WELL NO.: SW-2

GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.
Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC
Weather Conditions: Sunny; 90°s Sampling Date: 06/11/2014

1. WATER LEVEL DATA (measured from top of inner well casing)
a. Depth to LNAPL: NA (ft) b. Depth to Water: NA (ft)
c. Depth to DNAPL: NA (ft) d. Total Well Depth: NA (ft)
e. LNAPL Thickness: (a-b) NA (ft) f. DNAPL Thickness: (c-d) NA (ft)
g. Length of Water Column: NA (ft) (a-d)
h. Well Volume: NA (gal)

Table with 2 columns: Well I.D., Conv. Fact. (cf). Rows 1-6 with values 0.041, 0.163, 0.653, 1.470.

2. WELL PURGE DATA
a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
b. Field Testing Equipment: YSI 556; Hach
c. Required Total Purge Volume (1f x 2c) (gals.): NA
d. Total Volume and Number of Well Volumes Removed: NA
e. Begin Purge Time: 4:25 End Purge Time:

Table with 11 columns: Read No., Lapse Time, Purge Rate, Temp, pH, Spec. Cond., Eh/ORP, Diss O2, TURB, Color, Odor, Water Level.

PRE PURGE VALUES table with handwritten data: 1, -, -, 21.8, 7.12, 69, -50.8, 6.98, 9.2, clear, none, NA.

PURGING VALUES table with a large diagonal line drawn across it and handwritten text '6/11/14 AH'.

3. SAMPLE COLLECTION DATA
Sampling Method(s) & Equip: grab
Sample I.D. (Name, Date, Time): SW-2, 6/11/14, 1425
Sample Analytical Parameters/Method: (Vocs) (DDA); Dow Therm A; Nat Attenuation
HACH s/n: 31569 ; YSI s/n: 10J110413
Sampling Personnel: A-H/11

Sample Start Time: 1425 End Sample Time: 1440
COMMENTS:

WELL NO.: Sw-1

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny; 90's Sampling Date: 06/11/2014

#### 1. WATER LEVEL DATA (measured from top of inner well casing)

- a. Depth to LNAPL: NA (ft)
- b. Depth to Water: NA (ft)
- c. Depth to DNAPL: NA (ft)
- d. Total Well Depth: NA (ft)
- e. LNAPL Thickness: (a-b) NA (ft)
- f. DNAPL Thickness: (c-d) NA (ft)
- g. Length of Water Column: NA (ft) (a-d)
- h. Well Volume: NA (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

#### 2. WELL PURGE DATA

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1450 End Purge Time: \_\_\_\_\_

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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1	-	-	21.44	7.14	74	-58.3	6.98	12-1	Clear	None	NA
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~~6/11/14~~

#### 3. SAMPLE COLLECTION DATA

Sampling Personnel: A-Hill

Sampling Method(s) & Equip: Grab  
 Sample I.D. (Name, Date, Time): Sw-1, 6/11/14, 1500  
 Sample Analytical Parameters/Method: Vocs, DDR, Dow Therm A, Nat Attenuation  
 HACH s/n: 31559 ; YSI s/n: 105110413

Sample Start Time: 1500

End Sample Time: 1515

COMMENTS: (



WELL NO.: Rw-80

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 70's Sampling Date: 06/11/2014

1. WATER LEVEL DATA (measured from top of inner well casing)
- a. Depth to LNAPL: n/a (ft)
  - b. Depth to Water: 6.98 (ft)
  - c. Depth to DNAPL: n/a (ft)
  - d. Total Well Depth: 52.08 (ft)
  - e. LNAPL Thickness: (a-b) n/a (ft)
  - f. DNAPL Thickness: (c-d) n/a (ft)
  - g. Length of Water Column: 45.10 (ft) (a-d)
  - h. Well Volume: 29.45 (gal)

Conversion Factors (a x cf = b)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

2. WELL PURGE DATA
- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
  - b. Field Testing Equipment: YSI 556; Hach
  - c. Required Total Purge Volume (1f x 2c) (gals.): NA
  - d. Total Volume and Number of Well Volumes Removed: NA
  - e. Begin Purge Time: 0755 End Purge Time: 0825

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
PURGE V											
1	5	100	35.15	4.36	0.767	90.3	1.02	6.51	clear	yes	7.02
DING VA											
2	10	100	35.28	4.38	0.767	87.6	0.74	4.28	↓	↓	7.02
3	15	100	35.47	4.37	0.768	84.3	0.59	4.03	↓	↓	7.03
4	20	100	35.61	4.35	0.768	83.5	0.48	3.87	↓	↓	7.03
5	25	100	35.78	4.34	0.769	82.7	0.43	3.58	↓	↓	7.04
6	30	100	35.87	4.33	0.769	82.1	0.45	3.42	↓	↓	7.04
6/11/14 R Lane											

3. SAMPLE COLLECTION DATA Sampling Personnel: R Lane  
 Sampling Method(s) & Equip: Peristaltic Pump dedicated teflon tubing  
 Sample I.D. (Name, Date, Time): Rw-80 6/11/14 0830  
 Sample Analytical Parameters/Method: Vocs (DDE; Dow Therm A) Nat Attenuation  
 HACH s/n: 28078 ; YSI s/n: 10A101442

Sample Start Time: 0830  
 COMMENTS:

End Sample Time: 0855

WELL NO.: MW-53

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Cloudy 70-80s Sampling Date: 06/11/2014

#### 1. WATER LEVEL DATA (measured from top of inner well casing)

- a. Depth to LNAPL: N/A (ft)
- b. Depth to Water: 10.63 (ft)
- c. Depth to DNAPL: N/A (ft)
- d. Total Well Depth: 42.00 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)
- f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 31.37 (ft) (a-d)
- h. Well Volume: 5.11 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

#### 2. WELL PURGE DATA

- a. Purge Method: Peristaltic/2v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 0755 End Purge Time: 0820

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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#### PRE PURGE VALUES

1	3	150	23.16	4.86	2444	126.5	1.64	8.91	Clear	None	10.63
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#### PURGING VALUES

2	5	150	23.56	4.88	2449	129.8	1.12	7.43	Clear	None	10.63
3	10	150	23.63	4.88	2442	128.1	1.03	7.21	Clear	None	10.63
4	15	150	23.71	4.88	2442	127.6	1.05	7.31	Clear	None	10.63
5	20	150	23.80	4.88	2440	127.5	1.08	8.41	Clear	None	10.63
<del>6</del>	<del>25</del>										

#### 3. SAMPLE COLLECTION DATA

Sampling Personnel: D.Hill  
 Sampling Method(s) & Equip: Low flow Peristaltic pump w/ dedicated tubing  
 Sample I.D. (Name, Date, Time): MW-53 6/11/14 0825  
 Sample Analytical Parameters/Method: Vocs (DDE ; Dow Therm A) Nat Attenuation  
 HACH s/n: 17867 ; YSI s/n: 10H100442

Sample Start Time: 0825

End Sample Time: 0900

COMMENTS:

WELL NO.: RW-82

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 70's Sampling Date: 06/11/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: n/a (ft)
- b. Depth to Water: 14.31 (ft)
- c. Depth to DNAPL: n/a (ft)
- d. Total Well Depth: 50.50 (ft)
- e. LNAPL Thickness: (a-b) n/a (ft)
- f. DNAPL Thickness: (c-d) n/a (ft)
- g. Length of Water Column: 36.19 (ft) (a-d)
- h. Well Volume: 23.63 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 0905 End Purge Time: 0930

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	5	250	25.18	5.77	0.372	6.7	1.24	4.76	clear	Yes	14.33
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**PURGING VALUES**

2	10	250	25.31	5.85	0.369	1.4	0.83	2.73			14.33
3	15	250	25.40	5.90	0.367	-2.0	0.55	2.41			14.33
4	20	250	25.47	5.91	0.365	-4.6	0.45	2.29			14.34
5	25	250	25.52	5.92	0.366	-6.1	0.39	2.18	↓	↓	14.34

6/11/14 R Lane

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated teflon tubing

Sample I.D. (Name, Date, Time): RW-82 6/11/14 0935

Sample Analytical Parameters/Method: Vocs (DDE; Dow Therm A) Nat Attenuation

HACH s/n: 28078 ; YSI s/n: 10A101442

Sample Start Time: 0935

End Sample Time: 1000

**COMMENTS:**

Dup DW-41 Taken

WELL NO.: RW-86

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Partly Cloudy 80s Sampling Date: 06/11/2014

1. WATER LEVEL DATA (measured from top of inner well casing)  
 a. Depth to LNAPL: N/A (ft) b. Depth to Water: 13.01 (ft)  
 c. Depth to DNAPL: N/A (ft) d. Total Well Depth: 50.28 (ft)  
 e. LNAPL Thickness: (a-b) N/A (ft) f. DNAPL Thickness: (c-d) N/A (ft)  
 g. Length of Water Column: 37.27 (ft) (a-d)  
 h. Well Volume: 24.34 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

2. WELL PURGE DATA  
 a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water  
 b. Field Testing Equipment: YSI 556; Hach  
 c. Required Total Purge Volume (1f x 2c) (gals.): NA  
 d. Total Volume and Number of Well Volumes Removed: NA  
 e. Begin Purge Time: 0940 End Purge Time: 1010

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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PRE PURGE VALUES

1	3	100	32.28	6.69	1285	-109.1	1.53	17.4	Clear	None	13.01
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PURGING VALUES

2	5	100	32.18	6.73	1261	-116.2	0.74	18.3	Clear	None	13.01
3	10	100	32.29	6.73	1257	-118.7	0.43	11.7	Clear	None	13.01
4	15	100	32.62	6.73	1251	-117.5	0.31	11.0	Clear	None	13.01
5	20	100	32.74	6.73	1254	-116.1	0.26	9.20	Clear	None	13.01
6	25	100	32.75	6.73	1250	-117.0	0.22	8.51	Clear	None	13.01
7	30	100	32.49	6.73	1251	-115.3	0.24	7.57	Clear	None	13.01

DHI

3. SAMPLE COLLECTION DATA Sampling Personnel: D. Hill  
 Sampling Method(s) & Equip: low flow Peristaltic Pump w/ dedicated tubing  
 Sample I.D. (Name, Date, Time): RW-86 6/11/14  
 Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation  
 HACH s/n: 17867 ; YSI s/n: 104100442

Sample Start Time: 1015 End Sample Time: 1040  
 COMMENTS:

WELL NO.: mw-07

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: overcast 80's Sampling Date: 06/11/2014

1. WATER LEVEL DATA (measured from top of inner well casing)
- a. Depth to LNAPL: n/a (ft)
  - b. Depth to Water: 15.82 (ft)
  - c. Depth to DNAPL: n/a (ft)
  - d. Total Well Depth: 38.50 (ft)
  - e. LNAPL Thickness: (a-b) n/a (ft)
  - f. DNAPL Thickness: (c-d) n/a (ft)
  - g. Length of Water Column: 22.65 (ft) (a-d)
  - h. Well Volume: 3.69 (gal)

Conversion Factors (a x cf = b)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

2. WELL PURGE DATA
- a. Purge Method: Peristaltic 12v pump/Ext Well/Surface Water
  - b. Field Testing Equipment: YSI 556; Hach
  - c. Required Total Purge Volume (1f x 2c) (gals.): NA
  - d. Total Volume and Number of Well Volumes Removed: NA
  - e. Begin Purge Time: 1030 End Purge Time:

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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PRE PURGE VALUES

1	5	100	21.74	6.24	0.219	-10.6	3.07	3.00	clear	yes	15.86
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PURGING VALUES

2	10	100	22.42	6.26	0.218	-16.9	1.04	2.27	↓	↓	15.86
3	15	100	22.48	6.30	0.218	-19.2	0.94	1.98	↓	↓	15.88
4	20	100	22.55	6.32	0.217	-21.4	0.89	1.74	↓	↓	15.88
5	25	100	22.61	6.34	0.217	-23.8	0.84	1.59	↓	↓	15.88

6/11/14 R Lane

3. SAMPLE COLLECTION DATA

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated teflon tubing

Sample I.D. (Name, Date, Time): mw-07 6/11/14, 1100

Sample Analytical Parameters/Method: Vocs (DDE; Dow Therm A; Nat Attenuation)

HACH s/n: 28078 ; YSI s/n: 10A101442

Sample Start Time: 1100 End Sample Time: 1125

COMMENTS:

WELL NO.: Rw - 92

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: overcast 80's Sampling Date: 06/11/2014

1. WATER LEVEL DATA (measured from top of inner well casing)  
 a. Depth to LNAPL: n/a (ft) b. Depth to Water: 14.08 (ft)  
 c. Depth to DNAPL: n/a (ft) d. Total Well Depth: 51.00 (ft)  
 e. LNAPL Thickness: (a-b) n/a (ft) f. DNAPL Thickness: (c-d) n/a (ft)  
 g. Length of Water Column: 36.92 (ft) (a-d)  
 h. Well Volume: 24.10 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
<u>4</u>	0.653
6	1.470

2. WELL PURGE DATA  
 a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water  
 b. Field Testing Equipment: YSI 556; Hach  
 c. Required Total Purge Volume (1f x 2c) (gals.): NA  
 d. Total Volume and Number of Well Volumes Removed: NA  
 e. Begin Purge Time: 1240 End Purge Time: 1310

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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PRE PURGE VALUES

1	5	100	23.53	6.16	0.938	-44.3	1.96	4.14	clear	none	14.12
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PURGING VALUES

2	10	100	23.67	6.22	0.949	-49.7	0.88	3.98			14.12
3	15	100	23.76	6.24	0.960	-53.6	0.72	3.67			14.13
4	20	100	23.88	6.26	0.961	-56.8	0.59	3.74			14.13
5	25	100	23.94	6.27	0.962	-57.2	0.50	3.59			14.14
6	30	100	23.98	6.28	0.962	-58.0	0.54	3.66	↓	↓	14.14

*6/11/14 R Lane*

3. SAMPLE COLLECTION DATA Sampling Personnel: R Lane  
 Sampling Method(s) & Equip: Peristaltic Pump Dedicated teflon tubing  
 Sample I.D. (Name, Date, Time): Rw-92 6/11/14, 1315  
 Sample Analytical Parameters/Method: Vocs: DDE; Dow Therm A; Nat Attenuation  
 HACH s/n: 28078; YSI s/n: 10A101442

Sample Start Time: 1315 End Sample Time: 1340  
 COMMENTS:

WELL NO.: RW-91

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Cloudy 80s Sampling Date: 06/11/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)      b. Depth to Water: 15.21 (ft)
- c. Depth to DNAPL: N/A (ft)      d. Total Well Depth: 51.2 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)      f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 35.99 (ft) (a-d)
- h. Well Volume: 23.50 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic 12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1300 End Purge Time: 1325

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	3	100	22.88	6.04	287	-26.0	1.72	1.99	Clear	None	15.21
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**PURGING VALUES**

2	5	100	22.62	5.94	275	-28.5	.64	2.25	Clear	None	15.21
3	10	100	22.85	5.97	273	-32.8	.52	2.46	Clear	None	15.21
4	15	100	22.81	5.98	271	-34.7	.50	2.44	Clear	None	15.21
5	20	100	22.82	5.97	272	-34.5	.50	2.39	Clear	None	15.21
6	25	100	22.79	5.97	271	-35.7	.49	2.40	Clear	None	15.21

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: DHil

Sampling Method(s) & Equip: Low flow Peristaltic Pump

Sample I.D. (Name, Date, Time): RW-91 6/11/14 1330

Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation

HACH s/n: 17867 ; YSI s/n: 10H100442

Sample Start Time: 1330

End Sample Time: 1350

COMMENTS:

WELL NO.: MW-05

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: overcast 80's Sampling Date: 06/11/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: n/a (ft)
- b. Depth to Water: 21.63 (ft)
- c. Depth to DNAPL: n/a (ft)
- d. Total Well Depth: 35.40 (ft)
- e. LNAPL Thickness: (a-b) n/a (ft)
- f. DNAPL Thickness: (c-d) n/a (ft)
- g. Length of Water Column: 13.77 (ft) (a-d)
- h. Well Volume: 2.24 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1350 End Purge Time: 1415

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	5	100	22.27	5.12	0.104	177.5	1.72	2.83	clear	none	21.68
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**PURGING VALUES**

2	10	100	22.41	5.00	0.090	191.6	1.09	2.37	↓	↓	21.68
3	15	100	22.55	4.96	0.084	199.9	0.88	2.14	↓	↓	21.70
4	20	100	22.68	4.94	0.082	201.7	0.80	2.05	↓	↓	21.70
5	25	100	22.80	4.93	0.080	204.7	0.75	2.08	↓	↓	21.70

6/11/14 R Lane

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated teflon tubing

Sample I.D. (Name, Date, Time): MW-05 6/11/14, 1420

Sample Analytical Parameters/Method: Vocs (DDE; Dow Therm A; Nat Attenuation)

HACH s/n: 28078 ; YSI s/n: 10A101442

Sample Start Time: 1420

End Sample Time: 1445

COMMENTS:



WELL NO.: MW-105

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sampling Date: 06/11/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)
- b. Depth to Water: 14.36 (ft)
- c. Depth to DNAPL: N/A (ft)
- d. Total Well Depth: 26.00 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)
- f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 11.64 (ft) (a-d)
- h. Well Volume: 1.90 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1500 End Purge Time: 1525

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
1	3	200	21.64	5.59	73	171.3	5.20	6.06	Clear	None	14.36
2	5	200	21.58	5.56	34	176.8	6.30	5.85	↓	↓	14.36
3	10	200	21.48	5.50	15	179.6	7.98	5.65	↓	↓	14.36
4	15	200	21.34	5.49	11	183.5	8.39	5.54	↓	↓	14.36
5	20	200	21.22	5.48	12	184.9	8.50	5.49	↓	↓	14.36
6	25	200	21.21	5.48	10	185.3	8.58	5.45	↓	↓	14.36

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: DH:ll  
 Sampling Method(s) & Equip: Low flow Peristaltic pump  
 Sample I.D. (Name, Date, Time): MW-105, 6/11/14, 1530  
 Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation  
 HACH s/n: 17867; YSI s/n: 104100442

Sample Start Time: 1530 End Sample Time: \_\_\_\_\_  
 COMMENTS:

FE<sup>+2</sup> = 0

WELL NO.: MW - 106

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: overcast 80's Sampling Date: 06/11/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: n/a (ft)      b. Depth to Water: 14.75 (ft)
- c. Depth to DNAPL: n/a (ft)      d. Total Well Depth: 44.0 (ft)
- e. LNAPL Thickness: (a-b) n/a (ft)      f. DNAPL Thickness: (c-d) n/a (ft)
- g. Length of Water Column: 29.25 (ft)      (a-d)
- h. Well Volume: 4.76 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1500      End Purge Time: 1530

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	5	200	21.96	4.60	0.033	210.6	9.40	3.40	clear	none	14.79
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**PURGING VALUES**

2	10	200	22.10	4.76	0.034	207.4	8.31	3.12	↓		14.81
3	15	200	22.17	4.88	0.033	204.9	8.02	2.77	↓		14.81
4	20	200	22.23	4.91	0.033	203.5	8.05	2.64	↓		14.82
5	25	200	22.31	4.92	0.032	203.0	7.99	2.49	↓		14.82
6	30	200	22.40	4.92	0.032	202.7	7.96	2.30	↓	↓	14.82

*PL 6/11/14*

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated teflon tubing

Sample I.D. (Name, Date, Time): mw-106 6/11/14 1535

Sample Analytical Parameters/Method: Vocs ; DDE ; Dow Therm A; Nat Attenuation

HACH s/n: 28078 ; YSI s/n: 10A101442

Sample Start Time: 1535

End Sample Time: 1615

COMMENTS:

Fe<sup>+2</sup> = 0

WELL NO.: MW-132

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04		Client: Celanese Corp.	
Project Name: Auriga Polymers, Inc.		Project Location: Spartanburg, SC	
Weather Conditions: <u>Cloudy; 80's</u>		Sampling Date: 06/11/2014	

**1. WATER LEVEL DATA (measured from top of inner well casing)**

a. Depth to LNAPL: <u>NA</u> (ft)	b. Depth to Water: <u>43.32</u> (ft)
c. Depth to DNAPL: <u>NA</u> (ft)	d. Total Well Depth: <u>64.97</u> (ft)
e. LNAPL Thickness: (a-b) <u>NA</u> (ft)	f. DNAPL Thickness: (c-d) <u>NA</u> (ft)
g. Length of Water Column: _____ (ft)	(a-d)
h. Well Volume: _____ (gal)	

Conversion Factors  
(a x cf = h)

Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

a. Purge Method: <u>Peristaltic 12v pump/Ext Well/Surface Water</u>
b. Field Testing Equipment: <u>YSI 556; Hach</u>
c. Required Total Purge Volume (1f x 2c) (gals.): <u>NA</u>
d. Total Volume and Number of Well Volumes Removed: <u>NA</u>
e. Begin Purge Time: <u>1530</u> End Purge Time: <u>1600</u>

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
<b>PRE PURGE VALUES</b>											
1	3	200	23.52	5.39	49	274.6	1.42	128	Tan	None	43.38
<b>PURGING VALUES</b>											
2	8	200	21.46	5.28	46	286.4	0.82	125	Tan	None	43.38
3	10	200	21.33	5.22	46	288.5	0.69	45	clear	None	43.39
4	15	200	21.21	5.19	46	29.3	0.65	29	clear	None	43.39
5	20	200	21.17	5.17	46	294.1	0.64	14.6	clear	None	43.39
6	25	200	21.14	5.17	45	294.8	0.61	9.4	clear	None	43.40
7	30	200	21.11	5.16	45	295.3	0.58	8.2	clear	None	43.40
<div style="position: relative; width: 100%; height: 100%;"> <span style="font-size: 2em; opacity: 0.5; position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%);">6/11/14 All</span> </div>											

**3. SAMPLE COLLECTION DATA**

Sampling Method(s) & Equip: <u>low flow w/ submersible pump</u>	Sampling Personnel: <u>Art H</u>
Sample I.D. (Name, Date, Time): <u>MW-132, 6/11/14, 1600</u>	
Sample Analytical Parameters/Method: <u>(Vocs) DDE; Dow Therm A; (Nat Attenuation)</u>	
HACH s/n: <u>31559</u> ; YSI s/n: <u>105110413</u>	

Sample Start Time: 1600 End Sample Time: 1615

COMMENTS: Fe<sup>2+</sup> = 0.0 mg/l

WELL NO.: MW-134

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Lt. Rainy Fog Sampling Date: 06/11/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: NA (ft) b. Depth to Water: 52.24 (ft)
- c. Depth to DNAPL: NA (ft) d. Total Well Depth: 75.07 (ft)
- e. LNAPL Thickness: (a-b) NA (ft) f. DNAPL Thickness: (c-d) NA (ft)
- g. Length of Water Column: 22.83 (ft) (a-d)
- h. Well Volume: 3.7 (gal)

Conversion Factors (a x cf = b)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1630 End Purge Time: 1700

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	03	150	20.33	5.43	53	192.3	2.28	138.6	tan	None	52.25
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**PURGING VALUES**

2	5	150	20.55	5.40	52	203.9	2.09	45.1	clear	None	52.25
3	10	150	20.23	5.40	52	200.0	1.91	16.4	clear	None	52.26
4	15	150	20.21	5.40	52	200.3	1.91	12.2	clear	None	52.26
5	20	150	20.20	5.40	52	200.7	1.89	8.3	clear	None	52.26
6	25	150	20.20	5.40	52	201.3	1.88	6.9	clear	None	52.27
7	30	150	20.19	5.40	52	201.6	1.87	6.2	clear	None	52.27

*6/11/14 AH*

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: A. Hill

Sampling Method(s) & Equip: low flow w/ submersible pump

Sample I.D. (Name, Date, Time): MW-134, 6/11/14, 1700

Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation

HACH s/n: 31559; YSI s/n: 105110413

Sample Start Time: 1700

End Sample Time: 1720

COMMENTS:

*Fe<sup>+2</sup> = 0 mg/l*

WELL NO.: RW-121

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: swmy 70° Sampling Date: 06/11/2014

#### 1. WATER LEVEL DATA (measured from top of inner well casing)

- a. Depth to LNAPL: N/A (ft) b. Depth to Water: 33.16 (ft)
- c. Depth to DNAPL: N/A (ft) d. Total Well Depth: 79.60 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft) f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 46.44 (ft) (a-d)
- h. Well Volume: 7.6 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

#### 2. WELL PURGE DATA

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 0802 End Purge Time: 0838

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
<b>PURGE VALUES</b>											
INT	4	200	17.65	5.88	144	76.6	9.70	71.4	cloudy	NO	33.90
<b>GING VA</b>											
2	10	100	18.25	5.32	144	99.4	2.38	48.1	cloudy	NO	35.11
3	15	100	18.53	5.13	144	109.7	1.50	16.6	CLEAR	NO	35.62
4	20	100	18.70	5.08	145	113.0	1.31	12.0			35.77
5	25	100	18.76	5.01	145	116.3	1.04	10.1			35.84
6	30	100	18.79	4.98	146	117.2	0.97	9.33			35.90
7	35	100	18.82	4.97	146	117.9	0.95	8.67	↓	↓	35.95
<i>Jeff Leavel</i> 6/11/14											

#### 3. SAMPLE COLLECTION DATA

Sampling Personnel: JEFF LEAVEL

Sampling Method(s) & Equip: Low Flow, Pump Tubing  
 Sample I.D. (Name, Date, Time): RW-121, 6/11/14, 0840  
 Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation  
 HACH s/n: 09120C; YSI s/n: 09101305; Fe+2 = 0.0 mg/L

Sample Start Time: 0840 End Sample Time: 0917  
 COMMENTS:

# GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-120

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: SUNNY 80° Sampling Date: 06/11/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft) b. Depth to Water: 32.62 (ft)  
 c. Depth to DNAPL: N/A (ft) d. Total Well Depth: 55.03 (ft)  
 e. LNAPL Thickness: (a-b) N/A (ft) f. DNAPL Thickness: (c-d) N/A (ft)  
 g. Length of Water Column: 22.41 (ft) (a-d)  
 h. Well Volume: 3.7 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water  
 b. Field Testing Equipment: YSI 556; Hach  
 c. Required Total Purge Volume (1f x 2c) (gals.): NA  
 d. Total Volume and Number of Well Volumes Removed: NA  
 e. Begin Purge Time: 0925 End Purge Time: 1010

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

INT	4	250	18.63	4.65	38	161.4	5.67	cloudy	280Y	NO	33.80
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**PURGING VALUES**

2	10	150	19.01	4.22	37	173.0	4.89	306.0	cloudy	NO	34.36
3	15	100	19.17	4.08	37	185.3	4.40	221.7	cloudy	NO	34.43
4	20	100	19.09	3.99	37	186.3	4.32	190.4	cloudy	NO	34.48
5	25	100	19.04	3.90	38	185.2	4.27	186.3			34.52
6	30	100	19.01	3.88	38	184.1	4.19	140.8			34.56
7	35	100	19.12	3.82	39	183.8	4.08	119.0			34.61
8	40	100	19.19	3.79	39	183.0	4.00	108.4			34.65
9	45	100	19.24	3.76	40	182.6	4.02	107.6	↓	↓	34.69

*J.A. Clulley*

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: JEFF LEAVER

Sampling Method(s) & Equip: LOW FLOW, PUMP TUBING

Sample I.D. (Name, Date, Time): MW-120, 6/11/14, 1010

Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation

HACH s/n: 09120C; YSI s/n: 09K101305, Fe<sup>+2</sup> = 0.0 mg/L

Sample Start Time: 1010

End Sample Time: 1048

COMMENTS:

WELL NO.: RW-108

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: R. SUNNY 84° Sampling Date: 06/11/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)      b. Depth to Water: 45.20 (ft)
- c. Depth to DNAPL: N/A (ft)      d. Total Well Depth: 124.56 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)      f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 79.36 (ft)      (a-d)
- h. Well Volume: 12.9 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA\*
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1100      End Purge Time: 1140

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
<b>PURGE VALUES</b>											
<u>1</u>	<u>4</u>	<u>150</u>	<u>18.22</u>	<u>6.45</u>	<u>290</u>	<u>19.9</u>	<u>3.45</u>	<u>104.7</u>	<u>Cloudy</u>	<u>NO</u>	<u>45.64</u>
<b>VALUES</b>											
<u>2</u>	<u>10</u>	<u>100</u>	<u>18.15</u>	<u>6.60</u>	<u>338</u>	<u>0.4</u>	<u>1.83</u>	<u>66.2</u>	<u>Cloudy</u>	<u>NO</u>	<u>45.80</u>
<u>3</u>	<u>15</u>	<u>100</u>	<u>18.09</u>	<u>6.87</u>	<u>367</u>	<u>-27.3</u>	<u>1.00</u>	<u>40.1</u>	<u>CLEAR</u>	<u>NO</u>	<u>45.87</u>
<u>4</u>	<u>20</u>	<u>100</u>	<u>18.18</u>	<u>6.86</u>	<u>359</u>	<u>-32.9</u>	<u>0.79</u>	<u>22.3</u>	<u>CLEAR</u>	<u>NO</u>	<u>45.92</u>
<u>5</u>	<u>25</u>	<u>100</u>	<u>18.07</u>	<u>6.80</u>	<u>336</u>	<u>-35.7</u>	<u>0.68</u>	<u>19.2</u>			<u>45.96</u>
<u>6</u>	<u>30</u>	<u>100</u>	<u>18.11</u>	<u>6.78</u>	<u>328</u>	<u>-41.4</u>	<u>0.63</u>	<u>17.6</u>			<u>46.01</u>
<u>7</u>	<u>35</u>	<u>100</u>	<u>18.14</u>	<u>6.78</u>	<u>324</u>	<u>-42.9</u>	<u>0.60</u>	<u>17.1</u>			<u>46.05</u>
<u>8</u>	<u>40</u>	<u>100</u>	<u>18.17</u>	<u>6.77</u>	<u>321</u>	<u>-43.8</u>	<u>0.58</u>	<u>16.4</u>	<u>↓</u>	<u>↓</u>	<u>46.08</u>
<u>A.A. 6/11/14</u>											

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: JEFF LEAVER

Sampling Method(s) & Equip: LOW FLOW, PUMP TURNING

Sample I.D. (Name, Date, Time): RW-108, 6/11/14, 1144

Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation

HACH s/n: 09120C ; YSI s/n: 09K101305 , Fet2 = 0.0 mg/L

Sample Start Time: 1144

End Sample Time: 1230

COMMENTS:

WELL NO.: MW-109

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: P. SUNNY 85° Sampling Date: 06/11/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft) b. Depth to Water: 43.67 (ft)
- c. Depth to DNAPL: N/A (ft) d. Total Well Depth: 89.85 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft) f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 46.18 (ft) (a-d)
- h. Well Volume: 7.5 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1240 End Purge Time: 1315

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

JNT	5	220	19.37	5.64	60	100.2	10.07	290.4	TAN	NO	44.80
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**PURGING VALUES**

2	10	160	19.48	5.22	61	140.8	8.97	233.0	TAN	NO	44.99
3	15	160	19.55	4.71	61	167.2	6.42	199.7	TAN	NO	45.09
4	20	160	19.53	4.33	62	174.0	6.20	186.4	cloudy	NO	45.08
5	25	160	19.52	4.15	62	186.7	6.01	158.1	cloudy	NO	45.11
6	30	160	19.50	4.11	63	191.1	5.89	155.0			45.15
7	35	160	19.47	4.08	63	192.9	5.55	150.9			45.18
8	40	160	19.44	4.06	63	194.0	5.43	148.8			45.22
9	45	160	19.41	4.05	64	194.5	5.36	146.2	↓	↓	45.25

*J.L. 6/11/14*

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: JEFF LEAVEL

Sampling Method(s) & Equip: Low Flow Pump TUBING

Sample I.D. (Name, Date, Time): MW-109, 6/11/14, 1317

Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation

HACH s/n: 09120C; YSI s/n: 09K10305, Fe+2 = 0.0 mg/L

Sample Start Time: 1317

End Sample Time: 1345

COMMENTS:



WELL NO.: MW-118

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Cloudy 86° Sampling Date: 06/11/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)      b. Depth to Water: 31.44 (ft)
- c. Depth to DNAPL: N/A (ft)      d. Total Well Depth: 44.00 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)      f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 12.56 (ft)      (a-d)
- h. Well Volume: 2.0 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1573      End Purge Time: 1548

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
<b>PURGE VALUES</b>											
INT	4	200	18.16	5.69	61	121.0	10.83	244.7	TAW	NO	32.90
<b>GING VA</b>											
2	10	100	17.53	4.85	60	156.5	6.68	210.3	TAW	NO	33.41
3	15	100	17.54	4.47	59	174.3	6.64	188.4	TAW	NO	33.47
4	20	100	17.70	4.29	57	181.7	6.49	171.0			33.50
5	25	100	17.78	4.18	54	192.3	6.41	167.8			33.54
6	30	100	17.81	4.12	53	194.1	6.37	166.1			33.59
7	35	100	17.82	4.10	53	195.0	6.33	164.5	√	√	33.63
<i>A.J. 6/11/14</i>											

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: JEFF LEAVER

Sampling Method(s) & Equip: LOW FLOW PUMP TUBING

Sample I.D. (Name, Date, Time): MW-118, 6/11/14, 1550

Sample Analytical Parameters/Method: Vocs; DDE; Dow Thermo A; Nat Attenuation

HACH s/n: 09120C ; YSI s/n: 09K101305 , Fe+2 = 0.0 mg/L

Sample Start Time: 1550

End Sample Time: 1612

COMMENTS:

WELL NO.: SW-13

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: RAIN 82° Sampling Date: 06/11/2014

#### 1. WATER LEVEL DATA (measured from top of inner well casing)

- a. Depth to LNAPL: N/A (ft)
- b. Depth to Water: N/A (ft)
- c. Depth to DNAPL: N/A (ft)
- d. Total Well Depth: N/A (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)
- f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: N/A (ft) (a-d)
- h. Well Volume: N/A (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

#### 2. WELL PURGE DATA

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1620 N/A End Purge Time: N/A

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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#### PRE PURGE VALUES

INT — — 22.01 5.95 96 90.7 8.14 552 CLEAR NO MOD. FLOW

#### PURGING VALUES

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#### 3. SAMPLE COLLECTION DATA

Sampling Personnel: JEFF LEAVER

Sampling Method(s) & Equip: GRAB SAMPLE

Sample I.D. (Name, Date, Time): SW-13, 6/11/14, 1630

Sample Analytical Parameters/Method: Vocs; DDE; Dew Therm A; Nat Attenuation

HACH s/n: 09120C; YSI s/n: 09K101305

Sample Start Time: 1630

End Sample Time: 1640

COMMENTS:



WELL NO.: EW-49

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: overcast / rein 80's Sampling Date: 06/11/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: n/a (ft) b. Depth to Water: 21.02 (ft)
- c. Depth to DNAPL: n/a (ft) d. Total Well Depth: 77.0 (ft)
- e. LNAPL Thickness: (a-b) n/a (ft) f. DNAPL Thickness: (c-d) n/a (ft)
- g. Length of Water Column: 55.98 (ft) (a-d)
- h. Well Volume: 82.29 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1625 End Purge Time: 1650

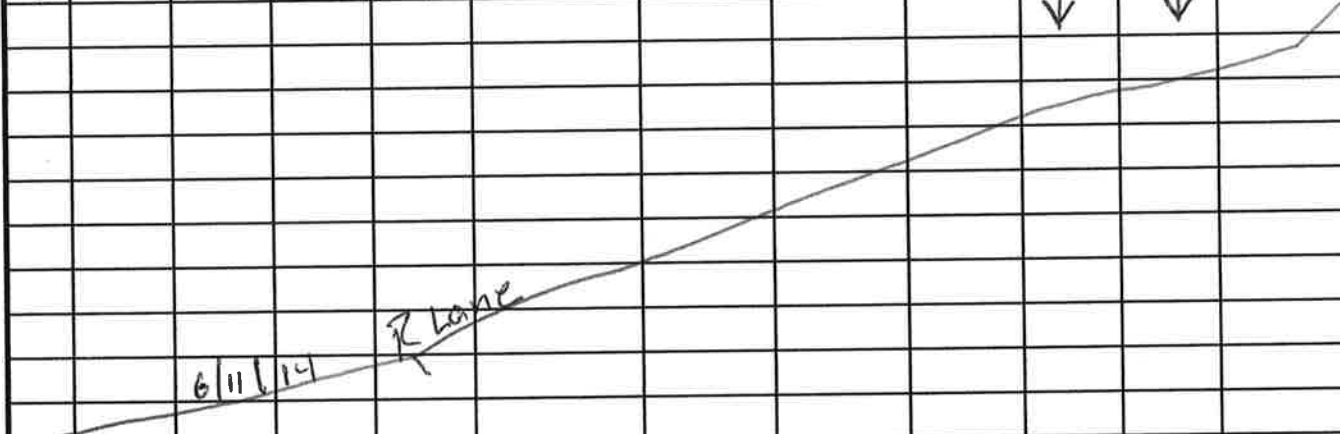
Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	5	200	21.13	7.01	0.242	-14.6	2.41	2.23	clear	none	21.03
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**PURGING VALUES**

2	10	200	21.02	7.69	0.234	-57.8	0.92	1.68	↓	↓	21.03
3	15	200	20.93	7.75	0.232	-69.4	0.54	1.49	↓	↓	21.04
4	20	200	20.84	7.77	0.231	-74.8	0.49	1.40	↓	↓	21.04
5	25	200	20.76	7.78	0.230	-79.6	0.43	1.31	↓	↓	21.04



**3. SAMPLE COLLECTION DATA**

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump dedicated teflon tubing

Sample I.D. (Name, Date, Time): EW-49 6/11/14 1655

Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation

HACH s/n: 28078; YSI s/n: 10A101442

Sample Start Time: 1655

End Sample Time: 1730

COMMENTS: FE 0.2 mg/L

WELL NO.: RW-119

## GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Cloudy 87° Sampling Date: 06/11/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)    b. Depth to Water: 32.04 (ft)  
 c. Depth to DNAPL: N/A (ft)    d. Total Well Depth: 90.10 (ft)  
 e. LNAPL Thickness: (a-b) N/A (ft)    f. DNAPL Thickness: (c-d) N/A (ft)  
 g. Length of Water Column: 58.06 (ft) (a-d)  
 h. Well Volume: 9.5 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water  
 b. Field Testing Equipment: YSI 556; Hach  
 c. Required Total Purge Volume (1f x 2c) (gals.): NA  
 d. Total Volume and Number of Well Volumes Removed: NA  
 e. Begin Purge Time: 1400 End Purge Time: 1500

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
<b>PURGE VALUES</b>											
INT	4	200	17.77	6.53	181	82.9	7.79	91.4	Cloudy	NO	34.11
<b>GING VALUES</b>											
2	10	140	18.58	6.35	187	99.0	6.30	78.6	Cloudy	NO	39.69
3	15	100	18.79	6.26	191	104.6	5.51	66.8	Cloudy	NO	44.02
4	20	500	18.84	6.07	184	111.4	5.02	122.5			53.44
5	32	500	18.97	5.83	179	117.8	4.77	206.0			61.80
6	45	500	19.04	5.79	177	119.0	4.60	244.7			75.06
7	58	500	19.08	5.77	176	119.4	4.49	308.9	↓	↓	86.95
		<u>DRY</u>									

*6/12/14*

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: JEFF LEAVER

Sampling Method(s) & Equip: Low Flow, PUMP TUBING  
 Sample I.D. (Name, Date, Time): RW-119, 6/12/14, 0700  
 Sample Analytical Parameters/Method: (Vocs) (DDE) Dow Therm A; (Nat Attenuation)

HACH s/n: 09120 C ; YSI s/n: 09K101305 , Fe<sup>+2</sup> = 0.0 mg/L

Sample Start Time: 0700

End Sample Time: 0730

**COMMENTS:**

VERY LOW YIELD, INCREASE FLOW RATE + PUMP WELL DRY, LET RECHARGE + SAMPLE

WELL NO.: EW-50

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: overcast 80's Sampling Date: 06/11/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: n/a (ft)
- b. Depth to Water: 22.02 (ft)
- c. Depth to DNAPL: n/a (ft)
- d. Total Well Depth: 44.0 (ft)
- e. LNAPL Thickness: (a-b) n/a (ft)
- f. DNAPL Thickness: (c-d) n/a (ft)
- g. Length of Water Column: 21.98 (ft) (a-d)
- h. Well Volume: 32.31 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic 12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1745 End Purge Time: 1815

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
<b>PURGE VALUES</b>											
1	5	200	22.32	8.02	1.066	46.5	2.78	24.9	clear	none	22.05
<b>GING VA</b>											
2	10	200	22.40	8.03	1.078	27.6	0.74	21.7	↓	↓	22.05
3	15	200	22.48	8.03	1.080	24.8	0.62	20.8	↓	↓	22.05
4	20	200	22.53	8.04	1.081	23.4	0.56	22.1	↓	↓	22.06
5	25	200	22.60	8.06	1.081	22.6	0.50	23.8	↓	↓	22.06
6	30	200	22.64	8.05	1.082	22.3	0.44	21.0	↓	↓	22.06
<i>6/11/14 R Lane</i>											

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated teflon tubing

Sample I.D. (Name, Date, Time): EW-50 6/11/14 1820

Sample Analytical Parameters/Method: Vocs DDE; Dow Therm A/Nat Attenuation

HACH s/n: 28078; YSI s/n: 10A101442

Sample Start Time: 1820

End Sample Time: 1835

**COMMENTS:**

FE = 1.0 mg/L

WELL NO.: RW-129

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: SUNNY 87° Sampling Date: 06/11/2014

#### 1. WATER LEVEL DATA (measured from top of inner well casing)

- a. Depth to LNAPL: N/A (ft)
- b. Depth to Water: 42.08 (ft)
- c. Depth to DNAPL: N/A (ft)
- d. Total Well Depth: 150.03 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)
- f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 107.95 (ft) (a-d)
- h. Well Volume: 17.6 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

#### 2. WELL PURGE DATA

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1800 End Purge Time: 1840

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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#### PRE PURGE VALUES

INT	4	200	22.44	5.89	485	6.6	4.52	27.4	CLEAR	NO	44.71
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#### PURGING VALUES

2	10	150	21.04	5.42	482	37.8	1.44	49.0	CLEAR	NO	45.89
3	15	100	21.28	6.13	460	-7.6	1.24	47.7	CLEAR	NO	46.45
4	20	100	21.42	6.24	473	-24.5	0.90	45.3			46.55
5	25	100	21.35	6.26	473	-30.4	0.63	40.1			46.62
6	30	100	21.31	6.26	473	-32.7	0.55	37.8			46.70
7	35	100	21.39	6.28	472	-32.8	0.49	35.4			46.75
8	40	100	21.44	6.29	472	-34.1	0.45	33.9	↓	↓	46.81

*J. J. 6/11/14*

#### 3. SAMPLE COLLECTION DATA

Sampling Personnel: JEFF LEAVER

Sampling Method(s) & Equip: LOW FLOW, PUMP TUBING

Sample I.D. (Name, Date, Time): RW-129, 6/11/14, 1844

Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation

HACH s/n: 09120 C ; YSI s/n: 09K101305 , Ferr = 0.0 mg/L

Sample Start Time:

End Sample Time:

COMMENTS:

WELL NO.: MW-98

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: P. cloudy; 70's Sampling Date: 06/12/2014

1. WATER LEVEL DATA (measured from top of inner well casing)
- a. Depth to LNAPL: NA (ft)
  - b. Depth to Water: 45.63 (ft)
  - c. Depth to DNAPL: NA (ft)
  - d. Total Well Depth: 91.50 (ft)
  - e. LNAPL Thickness: (a-b) NA (ft)
  - f. DNAPL Thickness: (c-d) NA (ft)
  - g. Length of Water Column: NA 45.63 (ft) (a-d)
  - h. Well Volume: 45.63 x 7.5 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

2. WELL PURGE DATA
- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
  - b. Field Testing Equipment: YSI 556; Hach
  - c. Required Total Purge Volume (1f x 2c) (gals.): NA
  - d. Total Volume and Number of Well Volumes Removed: NA
  - e. Begin Purge Time: 0810 End Purge Time:

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
VALUES											
1	3	100	19.29	6.27	59	96.5	5.11	694	Tan	None	45.69
2	5	100	19.49	5.69	58	147.3	3.69	124	Tan	None	45.69
3	10	100	19.65	5.68	56	173.6	2.52	52.2	clear	None	45.70
4	15	100	19.69	5.69	56	173.3	2.51	21.4	clear	None	45.70
5	20	100	19.70	5.69	56	172.9	2.50	12.6	clear	None	45.70
6	25	100	19.73	5.70	56	172.6	2.50	9.4	clear	None	45.71
7	30	100	19.74	5.71	56	172.2	2.49	7.2	clear	None	45.71
<del>6/12/14 AH</del>											

3. SAMPLE COLLECTION DATA

Sampling Method(s) & Equip: low flow w/ submersible pump Sampling Personnel: A-H-11

Sample I.D. (Name, Date, Time): MW-98, 6/12/14, 0840

Sample Analytical Parameters/Method: (Vocs, DDE); Dow Therm A; Nat Attenuation

HACH s/n: 31559 ; YSI s/n: 105110413

Sample Start Time: 0840 End Sample Time: 0845

COMMENTS:



WELL NO.: MW-99

## GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Cloudy, 80s Sampling Date: 06/12/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: NA (ft) b. Depth to Water: 46.99 (ft)  
 c. Depth to DNAPL: NA (ft) d. Total Well Depth: 65.97 (ft)  
 e. LNAPL Thickness: (a-b) NA (ft) f. DNAPL Thickness: (c-d) NA (ft)  
 g. Length of Water Column: 18.98 (ft) (a-d)  
 h. Well Volume: 3.1 (gal)

Conversion Factors (a x cf = b)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water  
 b. Field Testing Equipment: YSI 556; Hach  
 c. Required Total Purge Volume (1f x 2c) (gals.): NA  
 d. Total Volume and Number of Well Volumes Removed: NA  
 e. Begin Purge Time: 0850 End Purge Time:

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	3	200	20.31	5.28	32	205.4	3.19	859	clear	none	47.02
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**PURGING VALUES**

2	5	200	20.52	5.02	31	230.7	2.55	65.7	clear	None	47.
3	10	200	21.07	5.11	31	225.9	2.58	12.0	clear	None	47.
4	15	200	21.10	5.12	31	229.6	2.42	9.6	clear	None	47.
5	20	200	21.12	5.14	31	231.3	2.37	6.9	clear	None	47.

6/12/14 All

**3. SAMPLE COLLECTION DATA**

Sampling Method(s) & Equip: low flow w/ submersible pump  
 Sample I.D. (Name, Date, Time): MW-99, 6/12/14, 0910  
 Sample Analytical Parameters/Method: NO3-, DDE, Dow Therm A; Nat Attenuation  
 HACH s/n: 31559 ; YSI s/n: 10J110413

Sampling Personnel: A. Hill

Sample Start Time: 0910

End Sample Time: 0930

**COMMENTS:**

F<sub>2</sub> = 0.0 mg/l



WELL NO.: RW-130

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: cloudy 77° Sampling Date: 06/12/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)      b. Depth to Water: 51.68 (ft)
- c. Depth to DNAPL: N/A (ft)      d. Total Well Depth: 60.34 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)      f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 8.66 (ft) (a-d)
- h. Well Volume: 1.4 (gal)

Conversion Factors (a x cf = b)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic (12v pump)/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 0800      End Purge Time: 0845

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
VALUES											
INT	4	300	21.17	7.05	49	17.2	10.11	444.7	TAN	NO	52.00
VALUES											
2	10	300	20.23	5.38	36	120.4	7.72	386.1	cloudy	NO	52.02
3	15	300	20.46	4.64	32	184.6	5.59	308.7	cloudy	NO	52.02
4	20	300	20.57	4.60	32	191.0	4.98	164.0		NO	52.04
5	25	300	20.57	4.54	31	199.3	4.60	99.8			52.05
6	30	300	20.60	4.41	31	209.9	4.22	75.3			52.07
7	35	300	20.64	4.39	30	214.8	4.08	70.1			52.07
8	40	300	20.67	4.37	30	216.1	3.97	68.2			52.08
9	45	300	20.69	4.37	30	217.4	3.93	66.9	V	V	52.09
A-Z 6/12/14											

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: JEFF LEAVER

Sampling Method(s) & Equip: LOW FLOW, PUMP TUBING  
 Sample I.D. (Name, Date, Time): RW-130, 6/12/14, 0847  
 Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation  
 HACH s/n: 09120C ; YSI s/n: 09K10130.5 , Fe+2 = 0.0 mg/L

Sample Start Time: 0847

End Sample Time: 0910

COMMENTS:

WELL NO.: EW-36

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: overcast 70's Sampling Date: 06/12/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: n/a (ft) b. Depth to Water: 14.96 (ft)
- c. Depth to DNAPL: n/a (ft) d. Total Well Depth: 87.0 (ft)
- e. LNAPL Thickness: (a-b) n/a (ft) f. DNAPL Thickness: (c-d) n/a (ft)
- g. Length of Water Column: 72.04 (ft) (a-d)
- h. Well Volume: 105.89 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
<u>6</u>	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 0840 End Purge Time: 0910

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
<b>PURGE VALUES</b>											
1	5	300	19.61	6.20	0.128	-14.3	2.17	128	cloudy	none	15.00
<b>GING VALUES</b>											
2	10	300	19.69	6.36	0.130	-33.6	0.71	120			15.00
3	15	300	19.74	6.38	0.130	-39.2	0.47	124			15.01
4	20	300	19.80	6.39	0.129	-40.4	0.41	131			15.03
5	25	300	19.86	6.39	0.126	-41.0	0.36	133			15.03
6	30	300	19.90	6.40	0.129	-41.8	0.34	129	↓	↓	15.03
<del>6/12/14 R Lane</del>											

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated tetlon tubing

Sample I.D. (Name, Date, Time): EW-36 6/12/14, 0915

Sample Analytical Parameters/Method: Vocs DDE; Dow Therm A Nat Attenuation

HACH s/n: 28078 ; YSI s/n: 10A101442

Sample Start Time: 0915

End Sample Time: 0930

**COMMENTS:**

FE = 4.4 mg/l

WELL NO.: EW-53

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Cloudy 80° Sampling Date: 06/12/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft) b. Depth to Water: 52.32 (ft)
- c. Depth to DNAPL: N/A (ft) d. Total Well Depth: 137.00 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft) f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 84.68 (ft) (a-d)
- h. Well Volume: 129.5 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 0920 End Purge Time: 0955

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
VALUES											
1	3	300	19.79	6.08	245	-19.0	9.93	78.5	Cloudy	SLIGHT	52.60
VALUES											
2	10	300	19.83	5.62	240	17.1	1.50	60.8	Cloudy	SLIGHT	52.64
3	15	300	19.68	5.29	242	35.2	0.98	55.3	Cloudy	SLIGHT	52.66
4	20	300	19.64	5.18	242	55.0	0.83	51.7	Cloudy	SLIGHT	52.67
5	25	300	19.68	5.11	243	56.9	0.72	49.9			52.67
6	30	300	19.72	5.07	245	57.3	0.67	49.1			52.67
7	35	300	19.75	5.05	245	58.1	0.65	48.3	↓	↓	52.68
6/12/14											

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: JEFF LEAVER

Sampling Method(s) & Equip: low FLOW, PUMP TUBING  
 Sample I.D. (Name, Date, Time): EW-53, 6/12/14, 1000  
 Sample Analytical Parameters/Method: (Vocs; DDE; Dow Therm A; Nat Attenuation)  
 HACH s/n: 09620C; YSI s/n: 09K101305, Fe<sup>2+</sup> = 1.0 mg/L

Sample Start Time: 1000

End Sample Time: 1022

**COMMENTS:**

TOOK OVP (DW-5 @ 1800)

WELL NO.: EW-41

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Pt. Cloudy 80's Sampling Date: 06/12/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: n/a (ft)
- b. Depth to Water: 23.12 (ft)
- c. Depth to DNAPL: n/a (ft)
- d. Total Well Depth: 115.30 (ft)
- e. LNAPL Thickness: (a-b) n/a (ft)
- f. DNAPL Thickness: (c-d) \_\_\_\_\_ (ft)
- g. Length of Water Column: 92.18 (ft) (a-d)
- h. Well Volume: 135.50 (gal)

Conversion Factors (a x cf = b)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 0940 End Purge Time: 1025

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	5	150	19.70	5.45	0.070	121.7	3.67	108	cloudy	none	23.16
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**PURGING VALUES**

2	20	150	19.76	5.57	0.068	116.2	0.82	91.0			23.20
3	30	150	19.87	5.61	0.070	108.4	0.60	82.6			23.20
4	35	150	19.91	5.63	0.071	104.7	0.46	81.7			23.20
5	40	150	19.97	5.63	0.071	103.3	0.39	80.8			23.20
6	45	150	20.02	5.64	0.072	102.5	0.34	80.2	↓	↓	23.20

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated teflon tubing

Sample I.D. (Name, Date, Time): EW-41 6/12/14 1030

Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation

HACH s/n: 28078 ; YSI s/n: 10A101442

Sample Start Time: 1030

End Sample Time: 1100

COMMENTS:

FE = 4.2 mg/L

6/12/14 R Lane

WELL NO.: RW-65

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: P. Cloudy 80's Sampling Date: 06/12/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: NA (ft)
- b. Depth to Water: 36.40 (ft)
- c. Depth to DNAPL: NA (ft)
- d. Total Well Depth: 173.00 (ft)
- e. LNAPL Thickness: (a-b) NA (ft)
- f. DNAPL Thickness: (c-d) NA (ft)
- g. Length of Water Column: 136.6 (ft) (a-d)
- h. Well Volume: 22.3 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1015 End Purge Time: 1045

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
VALUES											
1	3	300	19.08	6.87	250	-19.5	2.25	8.7	clear	none	36.40
VALUES											
2	5	300	17.35	7.51	251	-96.6	0.70	2.02	clear	none	36.40
3	10	300	17.36	7.52	251	-96.8	0.69	2.0	clear	none	36.40
4	15	300	17.37	7.54	251	-97.0	0.63	2.0	clear	none	36.41
5	20	300	17.39	7.55	252	-97.2	0.58	2.0	clear	none	36.41
6	25	300	17.40	7.55	252	-97.7	0.51	1.9	clear	none	36.41
7	30	300	17.40	7.56	252	-97.8	0.55	1.8	clear	none	36.41
<del>6/12/14 All</del>											

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: A.H.T.  
 Sampling Method(s) & Equip: low flow w/ submersible pump  
 Sample I.D. (Name, Date, Time): RW-65, 6/12/14, 1045  
 Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation  
 HACH s/n: 31559; YSI s/n: 10J110413

Sample Start Time: 1045 End Sample Time: 1100

COMMENTS: Fe<sup>2+</sup> = 0.2 mg/l

WELL NO.: EW-39

**GROUNDWATER SAMPLE COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: P. Sunny 89° Sampling Date: 06/12/2014

1. WATER LEVEL DATA (measured from top of inner well casing)  
 a. Depth to LNAPL: N/A (ft) b. Depth to Water: 40.48 (ft)  
 c. Depth to DNAPL: N/A (ft) d. Total Well Depth: 115.00 (ft)  
 e. LNAPL Thickness: (a-b) N/A (ft) f. DNAPL Thickness: (c-d) N/A (ft)  
 g. Length of Water Column: 74.52 (ft) (a-d)  
 h. Well Volume: 109.5 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

2. WELL PURGE DATA  
 a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water  
 b. Field Testing Equipment: YSI 556; Hach  
 c. Required Total Purge Volume (1f x 2c) (gals.): NA  
 d. Total Volume and Number of Well Volumes Removed: NA  
 e. Begin Purge Time: 10:35 End Purge Time: 11:10

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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PRE PURGE VALUES

INT	4	300	20.10	6.64	497	-36.9	2.52	81.7	CLOUDY	SLIGHT	40.59
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PURGING VALUES

2	10	200	20.30	6.36	788	-47.3	1.70	49.3	CLOUDY	SLIGHT	40.63
3	15	200	20.73	6.33	943	-53.6	1.39	33.0	CLEAR	SLIGHT	40.65
4	20	200	21.00	6.30	1226	-58.5	1.20	28.4	CLEAR	SLIGHT	40.66
5	25	200	21.28	6.31	1280	-56.8	0.79	19.8			40.66
6	30	200	21.35	6.31	1294	-57.6	0.73	17.7			40.67
7	35	200	21.39	6.31	1307	-58.8	0.68	17.1	↓	↓	40.67

*J. L. 6/12/14*

3. SAMPLE COLLECTION DATA Sampling Personnel: JEFF LEAVER  
 Sampling Method(s) & Equip: LOW FLOW, PUMP TUBING  
 Sample I.D. (Name, Date, Time): EW-39, 6/12/14, 1111  
 Sample Analytical Parameters/Method: (Vocs; DDE; Dow-Therm-A; Nat Attenuation)  
 HACH s/n: 09120C ; YSI s/n: 09K101305, Fe+2 = 1.0 mg/L

Sample Start Time: 1111 End Sample Time: 1130  
 COMMENTS:



WELL NO.: RW-47

## GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Rain; 70°s Sampling Date: 06/12/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: NA (ft)
- b. Depth to Water: 31.98 (ft)
- c. Depth to DNAPL: NA (ft)
- d. Total Well Depth: 108.00 (ft)
- e. LNAPL Thickness: (a-b) NA (ft)
- f. DNAPL Thickness: (c-d) NA (ft)
- g. Length of Water Column: 76.02 (ft) (a-d)
- h. Well Volume: 50.2 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic (12v pump) Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1210 End Purge Time: 1235

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	5	100	20.11	8.03	912	245.4	4.83	47.1	clear	none	32.01
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**PURGING VALUES**

2	10	100	17.85	8.14	918	-212.7	1.27	29.7	clear	none	32.03
3	15	100	17.57	8.15	919	-183.6	0.57	12.7	clear	none	32.04
4	20	100	17.54	8.15	919	-178.2	0.51	8.6	clear	none	32.06
5	25	100	17.52	8.16	919	-176.4	0.49	7.1	clear	none	32.09

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: A. Hill  
 Sampling Method(s) & Equip: low flow w/ submersible pump  
 Sample I.D. (Name, Date, Time): RW-47, 6/12/14, 1235  
 Sample Analytical Parameters/Method: (Vocs); DDE; Dow Therm A; (Nat Attenuation)  
 HACH s/n: 31559; YSI s/n: 105110413

Sample Start Time: 1235

End Sample Time: 1250

**COMMENTS:**

Fe<sup>+2</sup> = 0.9 mg/l

WELL NO.: EW-31

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: overcast 80's Sampling Date: 06/12/2014

1. WATER LEVEL DATA (measured from top of inner well casing)
- a. Depth to LNAPL: n/A (ft) b. Depth to Water: 20.91 (ft)
  - c. Depth to DNAPL: n/A (ft) d. Total Well Depth: 110.50 (ft)
  - e. LNAPL Thickness: (a-b) n/A (ft) f. DNAPL Thickness: (c-d) n/A (ft)
  - g. Length of Water Column: 39.59 (ft) (a-d)
  - h. Well Volume: 131.69 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
<u>6</u>	1.470

2. WELL PURGE DATA
- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
  - b. Field Testing Equipment: YSI 556; Hach
  - c. Required Total Purge Volume (1f x 2c) (gals.): NA
  - d. Total Volume and Number of Well Volumes Removed: NA
  - e. Begin Purge Time: 1200 End Purge Time: 1230

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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PRE PURGE VALUES

1	5	200	19.60	6.73	0.259	-61.2	2.48	17.8	clear	none	20.93
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PURGING VALUES

2	10	200	19.68	6.90	0.256	-87.6	0.68	12.6	↓	↓	20.93
3	15	200	19.72	7.04	0.256	-98.4	0.42	10.2	↓	↓	20.94
4	20	200	19.79	7.07	0.255	-102.3	0.33	9.64	↓	↓	20.94
5	25	200	19.85	7.08	0.254	-103.2	0.28	9.51	↓	↓	20.94
6	30	200	19.92	7.09	0.254	-104.0	0.24	9.42	↓	↓	20.94

~~6/12/14 R Lane~~

3. SAMPLE COLLECTION DATA Sampling Personnel: R Lane  
 Sampling Method(s) & Equip: Peristaltic Pump Dedicated teflon tubing  
 Sample I.D. (Name, Date, Time): EW-31 6/12/14 1235  
 Sample Analytical Parameters/Method: Vocs DDE Dow Therm A Nat Attenuation  
 HACH s/n: 28078 ; YSI s/n: 10A101442

Sample Start Time: 1235 End Sample Time: 1250

COMMENTS: FE = 0.8 mg/L

WELL NO.: RW-29

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.

Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC

Weather Conditions: Cloudy 80° Sampling Date: 06/12/2014

#### 1. WATER LEVEL DATA (measured from top of inner well casing)

- a. Depth to LNAPL: N/A (ft) b. Depth to Water: 41.35 (ft)
- c. Depth to DNAPL: N/A (ft) d. Total Well Depth: 134.00 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft) f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 92.65 (ft) (a-d)
- h. Well Volume: 60.5 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

#### 2. WELL PURGE DATA

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1150 End Purge Time: 1238

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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#### PRE PURGE VALUES

INT.	3	300	18.94	7.71	184	37.1	8.74	6.90	CLEAR	NO	41.47
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#### PURGING VALUES

2	9	300	17.66	7.13	155	47.7	2.21	4.77	CLEAR	NO	41.50
3	15	300	17.62	6.90	154	58.6	1.31	4.50			41.52
4	20	300	17.70	6.67	154	46.2	0.92	4.38			41.53
5	26	300	17.74	6.53	154	44.1	0.78	3.94			41.53
6	32	300	17.78	6.51	153	42.0	0.72	3.30			41.54
7	39	300	17.81	6.51	153	40.9	0.70	2.86	↓	↓	41.54

*J.L. 6/12/14*

#### 3. SAMPLE COLLECTION DATA

Sampling Personnel: JEFF LEAVEL

Sampling Method(s) & Equip: LOW FLOW, PUMP TUBING

Sample I.D. (Name, Date, Time): RW-29, 6/12/14, 1240

Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation

HACH s/n: 09120C; YSI s/n: 09K101305, Fe<sup>2+</sup> = 0.0 mg/l

Sample Start Time: 1240

End Sample Time: 1315

#### COMMENTS:

TOOK DUP (DW-6 @ 2000)

WELL NO.: MW-46

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: P.C. cloudy, 80° Sampling Date: 06/12/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: NA (ft) b. Depth to Water: 29.61 (ft)
- c. Depth to DNAPL: NA (ft) d. Total Well Depth: 48.50 (ft)
- e. LNAPL Thickness: (a-b) NA (ft) f. DNAPL Thickness: (c-d) NA (ft)
- g. Length of Water Column: 18.89 (ft) (a-d)
- h. Well Volume: 3.1 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1300 End Purge Time: 1330

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	3	200	19.94	5.63	181	225.9	6.01	8.3	clear	none	29.63
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**PURGING VALUES**

2	5	200	19.20	5.27	172	240.4	5.66	5.2	clear	none	29.64
3	16	200	19.28	5.18	163	273.2	5.72	4.8	clear	none	29.65
4	15	200	19.43	5.17	163	269.8	5.72	4.0	clear	none	29.65
5	26	200	19.47	5.16	163	268.6	5.70	3.4	clear	none	29.66
6	25	200	19.48	5.16	163	265.3	5.69	2.8	clear	none	29.67
7	30	200	19.51	5.15	163	264.8	5.69	2.13	clear	none	29.67

~~6/12/14 AH~~

**3. SAMPLE COLLECTION DATA**

Sampling Method(s) & Equip: low flow w/ submersible pump Sampling Personnel: A. Hill  
 Sample I.D. (Name, Date, Time): MW-46 6/12/14, 1330  
 Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation  
 HACH s/n: 31559 ; YSI s/n: 10J110413

Sample Start Time: 1330

End Sample Time: 1340

**COMMENTS:**

Fe<sup>+2</sup> = 0.0 mg/l

WELL NO.: EW-30

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: PT Cloudy 80's Sampling Date: 06/12/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: n/a (ft)
- b. Depth to Water: 11.83 (ft)
- c. Depth to DNAPL: n/a (ft)
- d. Total Well Depth: 134.50 (ft)
- e. LNAPL Thickness: (a-b) n/a (ft)
- f. DNAPL Thickness: (c-d) n/a (ft)
- g. Length of Water Column: 122.67 (ft) (a-d)
- h. Well Volume: 180.32 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1300 End Purge Time: 1330

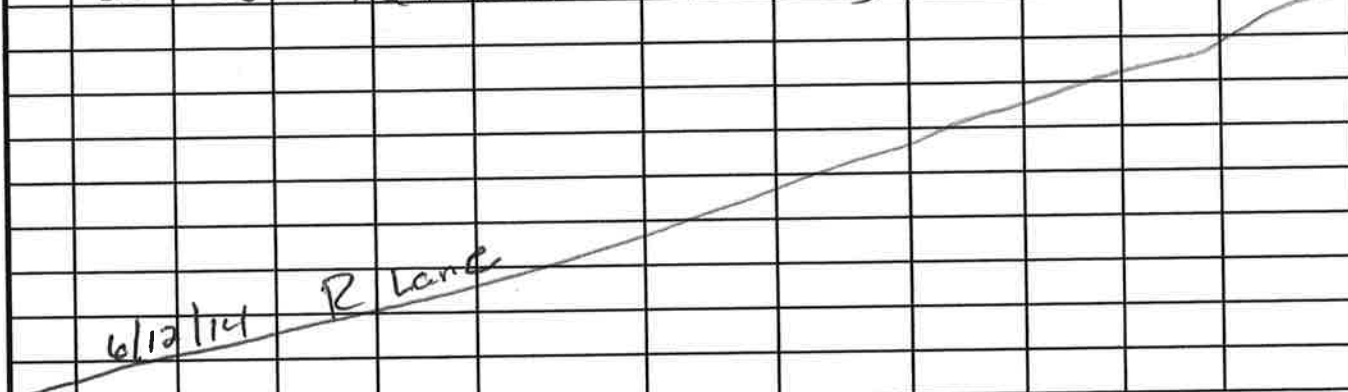
Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	5	300	21.01	6.45	0.179	-40.8	1.43	12.8	clear	none	11.85
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**PURGING VALUES**

2	10	300	21.20	6.47	0.178	-46.3	0.79	9.43			11.85
3	15	300	21.32	6.47	0.179	-47.2	0.58	9.01			11.85
4	20	300	21.40	6.46	0.179	-48.0	0.50	8.54			11.87
5	25	300	21.49	6.45	0.180	-48.7	0.47	8.39			11.87
6	30	300	21.57	6.44	0.180	-49.2	0.43	8.31	↓	↓	11.87



**3. SAMPLE COLLECTION DATA**

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated teflon tubing

Sample I.D. (Name, Date, Time): EW-30 6/12/14, 1335

Sample Analytical Parameters/Method: (Vocs) DDE; Dow Therm A; (Nat Attenuation)

HACH s/n: 28078 ; YSI s/n: 10A100442

Sample Start Time: 1335

End Sample Time: 1350

**COMMENTS:**

FE = 1.4 mg/l

WELL NO.: MW-103

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny; 80°S Sampling Date: 06/12/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: NA (ft)
- b. Depth to Water: 34.80 (ft)
- c. Depth to DNAPL: NA (ft)
- d. Total Well Depth: 59.0 (ft)
- e. LNAPL Thickness: (a-b) NA (ft)
- f. DNAPL Thickness: (c-d) NA (ft)
- g. Length of Water Column: 24.20 (ft) (a-d)
- h. Well Volume: 4.0 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1300 End Purge Time: 1440

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
VALUES											
1	3	200	17.94	4.94	50	285.3	8.25	694	Tan	None	34.83
2	5	200	17.76	4.85	49	300.2	7.36	628	Tan	None	34.84
3	10	200	17.97	4.87	49	306.8	6.82	106	clear	None	34.84
4	15	200	18.11	4.87	49	310.6	6.77	72.6	clear	None	34.85
5	20	200	18.11	4.86	49	309.8	6.80	32.4	clear	None	34.85
6	25	200	18.17	4.86	49	310.4	6.78	12.3	clear	None	34.86
7	30	200	18.19	4.86	49	311.6	6.69	10.6	clear	None	34.86
8	35	200	18.20	4.86	49	312.2	6.64	9.4	clear	None	34.87
9	40	200	18.23	4.86	49	312.5	6.61	8.9	clear	None	34.87
<del>6/12/14 AH</del>											

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: A-Hill  
 Sampling Method(s) & Equip: low flow w/ submersible pump  
 Sample I.D. (Name, Date, Time): MW-103, 6/12/14, 1440  
 Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation  
 HACH s/n: 31559; YSI s/n: 10J110413

Sample Start Time: 1440

End Sample Time: 1455

**COMMENTS:**

Fe<sup>+2</sup> = 0.0 mg/l

WELL NO.: RW-48

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: RAIN 77° Sampling Date: 06/12/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)      b. Depth to Water: 36.80 (ft)
- c. Depth to DNAPL: N/A (ft)      d. Total Well Depth: 109.15 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)      f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 72.35 (ft) (a-d)
- h. Well Volume: 47.3 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1340      End Purge Time: 1440

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

INT	4	360	19.90	6.68	237	-50.4	8.70	644.0	BROWN	NO	37.11
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**PURGING VALUES**

2	10	300	19.84	6.44	235	-42.8	2.99	480.6	ORANGE	NO	37.19
3	15	300	19.80	6.21	234	-39.1	1.74	422.7	ORANGE	NO	37.22
4	20	300	19.84	6.09	235	-38.4	0.89	365.0	TAN	NO	37.24
5	30	300	19.88	6.01	237	-40.2	0.66	328.4	TAN	NO	37.27
6	40	300	19.92	5.93	238	-42.9	0.52	289.3			37.30
7	50	300	19.95	5.90	240	-44.0	0.47	281.0			37.33
8	60	300	19.97	5.88	240	-44.7	0.44	275.4	↓	↓	37.35

*J.D. 6/12/14*

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: JEFF LEAVEL

Sampling Method(s) & Equip: LOW FLOW, PUMP TUBING

Sample I.D. (Name, Date, Time): RW-48, 6/12/14, 1444

Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation

HACH s/n: 09120C ; YSI s/n: 09K101305 , Fe+2 = 1.6 mg/L

Sample Start Time: 1444

End Sample Time: 1510

COMMENTS:

WELL NO.: Ew. 37

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: overcast 80 Sampling Date: 06/12/2014

**1. WATER LEVEL DATA** (measured from top of inner well casing)

- a. Depth to LNAPL: n/a (ft)      b. Depth to Water: 27.80 (ft)
- c. Depth to DNAPL: n/a (ft)      d. Total Well Depth: 87.00 (ft)
- e. LNAPL Thickness: (a-b) n/a (ft)      f. DNAPL Thickness: (c-d) n/a (ft)
- g. Length of Water Column: 59.20 (ft) (a-d)
- h. Well Volume: 87.02 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1400 End Purge Time: 1445

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	5	300	20.76	5.70	0.128	132.6	3.21	42.7	clear	none	27.83
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**PURGING VALUES**

2	10	300	20.84	5.64	0.125	138.4	0.98	48.4			27.83
3	20	300	20.90	5.60	0.122	136.3	0.74	44.6			27.84
4	30	300	20.97	5.55	0.123	134.7	0.68	39.1			27.84
5	35	300	21.03	5.54	0.122	135.8	0.60	41.0			27.85
6	40	300	21.10	5.53	0.123	136.4	0.53	41.4	↓	↓	27.85

6/12/14 Blank

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated tetlon tubing

Sample I.D. (Name, Date, Time): EW-37 6/12/14 1450

Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm; Nat Attenuation

HACH s/n: 28078 ; YSI s/n: 10A101442

Sample Start Time: 1450

End Sample Time: 1505

COMMENTS: FE 1.2 mg/L



WELL NO.: MW-45

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Cloudy 78° Sampling Date: 06/12/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)
- b. Depth to Water: 36.35 (ft)
- c. Depth to DNAPL: N/A (ft)
- d. Total Well Depth: 55.00 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)
- f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 18.65 (ft) (a-d)
- h. Well Volume: 3.0 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1530 End Purge Time: 1610

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
INT.	4	250	25.46	6.08	76	99.1	10.02	104.7	cloudy	NO	36.59
2	10	200	26.37	5.46	53	142.8	8.80	76.6	cloudy	NO	36.64
3	15	200	25.90	5.29	52	146.7	7.46	58.5	cloudy	NO	36.66
4	20	200	25.72	5.18	50	149.0	6.91	34.3	cloudy	NO	36.67
5	25	200	25.66	5.12	49	151.4	6.67	21.7	clear		36.67
6	30	200	25.60	5.09	48	153.0	6.50	14.0	clear		36.67
7	35	200	25.57	5.07	48	153.7	6.43	11.2	clear		36.68
8	40	200	25.53	5.06	48	154.4	6.38	9.64	clear	✓	36.68
<i>J.J. 6/12/14</i>											

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: JEFF LEAVER

Sampling Method(s) & Equip: LOW FLOW, PUMP TUBING

Sample I.D. (Name, Date, Time): MW-45 6/12/14 1614

Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation

HACH s/n: 09120C ; YSI s/n: 09K101305 , Fe<sup>+2</sup> = 0.0 mg/L

Sample Start Time: 1614

End Sample Time: 1635

COMMENTS:

WELL NO.: EW-28

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: SUNNY 80s Sampling Date: 06/12/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft) b. Depth to Water: 22.54 (ft)
- c. Depth to DNAPL: N/A (ft) d. Total Well Depth: ~~1230~~ 1230 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft) f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 100.46 (ft) (a-d)
- h. Well Volume: 147.68 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic 12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1600 End Purge Time: 1630

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	3	700	21.59	6.15	137	4.0	1.15	18.3	clear	None	22.54
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**PURGING VALUES**

2	5	700	21.20	6.37	150	-23.4	0.79	24.3			22.54
3	10	700	21.11	6.51	159	-30.6	0.66	14.3			22.54
4	15	700	21.00	6.56	161	-29.5	0.60	13.9			22.54
5	20	700	20.94	6.57	162	-32.7	0.60	11.8			22.54
6	25	700	20.68	6.56	162	-34.2	0.54	11.10	↓	↓	22.54
7	30	700	20.42	6.57	162	-31.5	0.54	9.98	↓	↓	22.54

~~6/12/14 DIT~~

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: D.H.H.

Sampling Method(s) & Equip: Low flow Peristaltic Pump  
 Sample I.D. (Name, Date, Time): EW-28 6/12/14 1635  
 Sample Analytical Parameters/Method: Vocs: DDE; Dow Therm A; Nat Attenuation  
 HACH s/n: 17868; YSI s/n: 104100442

Sample Start Time: 1635

End Sample Time: 1650

COMMENTS:

WELL NO.: EW 43

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Pt Cloudy 80's Sampling Date: 06/12/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: n/a (ft)
- b. Depth to Water: 26.17 (ft)
- c. Depth to DNAPL: n/a (ft)
- d. Total Well Depth: 131.0 (ft)
- e. LNAPL Thickness: (a-b) n/a (ft)
- f. DNAPL Thickness: (c-d) n/a (ft)
- g. Length of Water Column: 104.83 (ft) (a-d)
- h. Well Volume: 154.10 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic 12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1550 End Purge Time: 1620

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	5	400	19.13	6.66	0.207	-41.7	2.03	33.6	clear	none	26.20
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**PURGING VALUES**

2	10	400	19.36	6.85	0.210	-57.4	1.10	16.5			26.20
3	15	400	19.46	6.78	0.212	-81.4	0.88	10.5			26.20
4	20	400	19.39	6.79	0.216	-88.7	0.79	8.32			26.20
5	25	400	19.24	6.81	0.218	-92.6	0.71	8.19			26.20
6	30	400	19.20	6.83	0.220	-94.1	0.65	8.06	↓	↓	26.20

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated section tubing

Sample I.D. (Name, Date, Time): EW-43 6/12/14 1625

Sample Analytical Parameters/Method: Vocs (DDE; Dow Therm A) Nat Attenuation

HACH s/n: 28078 ; YSI s/n: 10A101442

Sample Start Time: 1625

End Sample Time: 1635

COMMENTS:

6/12/14  
R Lane

# GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: EW-02

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Pt cloudy 80's Sampling Date: 06/12/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: n/a (ft)      b. Depth to Water: 10.80 (ft)
- c. Depth to DNAPL: n/a (ft)      d. Total Well Depth: 92.0 (ft)
- e. LNAPL Thickness: (a-b) n/a (ft)      f. DNAPL Thickness: (c-d) \_\_\_\_\_ (ft)
- g. Length of Water Column: 81.20 (ft) (a-d)
- h. Well Volume: 119.36 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
<u>6</u>	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1645 End Purge Time: 1715

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
<b>PURGE V</b>											
1	5	150	18.54	6.90	0.111	1.0	2.74	26.1	clear	none	10.82
<b>GING VA</b>											
2	10	150	18.45	6.30	0.128	-4.8	1.10	10.4	↓	↓	10.82
3	15	150	18.40	6.19	0.130	-8.2	0.91	6.14	↓	↓	10.84
4	20	150	18.33	6.17	0.131	-10.4	0.84	3.21	↓	↓	10.84
5	25	150	18.29	6.15	0.132	-12.1	0.80	3.19	↓	↓	10.84
6	30	150	18.22	6.14	0.132	-13.0	0.76	3.08	↓	↓	10.84
<i>6/12/14 PLane</i>											

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: PLane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated tetlon tubing

Sample I.D. (Name, Date, Time): EW-02 6/12/14 1720

Sample Analytical Parameters/Method: Vocs (DDE; Dow Therm A; Nat Attenuation)

HACH s/n: 28078 ; YSI s/n: 10A101442

Sample Start Time: 1720

End Sample Time: 1735

COMMENTS:

WELL NO.: EW-47

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 70's Sampling Date: 06/12/2014

1. WATER LEVEL DATA (measured from top of inner well casing)  
 a. Depth to LNAPL: n/a (ft) b. Depth to Water: 19.50 (ft)  
 c. Depth to DNAPL: n/a (ft) d. Total Well Depth: 65.00 (ft)  
 e. LNAPL Thickness: (a-b) n/a (ft) f. DNAPL Thickness: (c-d) n/a (ft)  
 g. Length of Water Column: 45.5 (ft) (a-d)  
 h. Well Volume: 66.88 (gal)

Conversion Factors (a x cf = b)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
<u>6</u>	1.470

2. WELL PURGE DATA  
 a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water  
 b. Field Testing Equipment: YSI 556; Hach  
 c. Required Total Purge Volume (1f x 2c) (gals.): NA  
 d. Total Volume and Number of Well Volumes Removed: NA  
 e. Begin Purge Time: 0720 End Purge Time: 0750

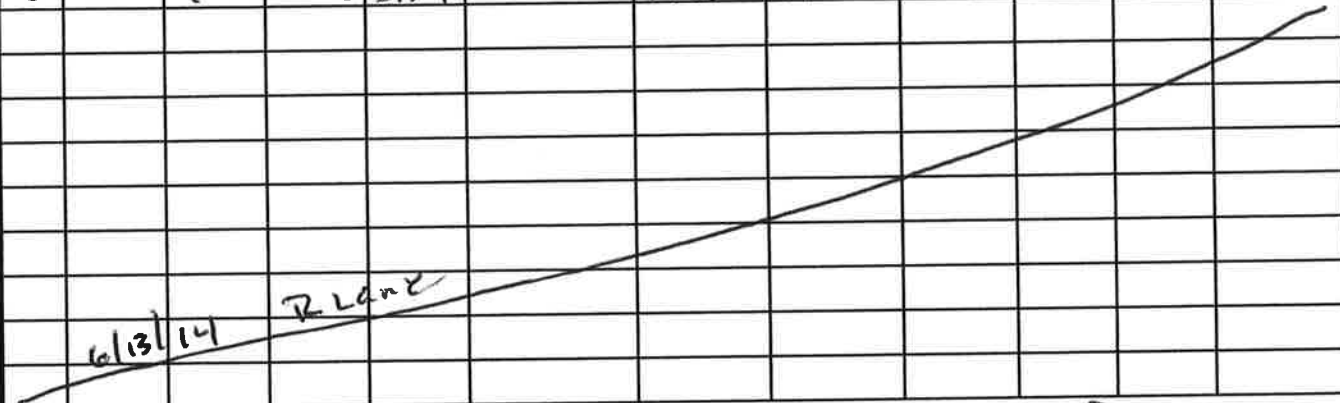
Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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PRE PURGE VALUES

1	5	400	16.72	5.58	0.069	166.0	7.99	70.2	clear	Yes	19.52
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PURGING VALUES

2	10	400	16.68	5.32	0.068	187.3	6.64	42.4	↓	↓	19.52
3	15	400	16.60	5.27	0.068	190.6	6.02	24.1	↓	↓	19.52
4	20	400	16.57	5.25	0.066	191.4	5.86	22.8	↓	↓	19.54
5	25	400	16.54	5.24	0.065	192.0	5.80	21.4	↓	↓	19.54
6	30	400	16.50	5.24	0.065	193.1	5.78	22.3	↓	↓	19.54



3. SAMPLE COLLECTION DATA Sampling Personnel: R. Lane  
 Sampling Method(s) & Equip: Peristaltic Pump Dedicated teflon tubing  
 Sample I.D. (Name, Date, Time): EW-47 6/13/14, 0755  
 Sample Analytical Parameters/Method: (Vocs; DDE) Dow Therm A; Nat Attenuation  
 HACH s/n: 28078 ; YSI s/n: 10 A101442

Sample Start Time: 0755 End Sample Time: 0800  
 COMMENTS:

WELL NO.: MW-57

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 80s Sampling Date: 06/13/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)
- b. Depth to Water: 16.09 (ft)
- c. Depth to DNAPL: N/A (ft)
- d. Total Well Depth: 38.00 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)
- f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 21.91 (ft)
- h. Well Volume: 3.57 (gal)

Conversion Factors (a x cf = b)	
Well I.D.	Conv. Fact. (cf)
1	0.041
3	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 0735 End Purge Time: 0800

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
1	3	150	17.33	4.83	31	269.0	6.89	9.15	clear	none	16.09
2	5	150	17.35	4.86	30	273.2	6.28	7.68	↓	↓	16.09
3	10	150	17.41	5.07	30	247.1	5.93	13.54	↓	↓	16.09
4	15	150	17.84	5.01	28	270	5.69	12.30	↓	↓	16.09
5	20	150	17.95	4.98	28	279.8	5.48	11.90	↓	↓	16.09
6	25	150	17.82	4.97	28	283.2	5.99	9.78	↓	↓	16.09
<del>DH 12/13/14</del>											

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: D.Hill

Sampling Method(s) & Equip: Low Flow Peristaltic Pump

Sample I.D. (Name, Date, Time): MW-57 6/13/14 0805

Sample Analytical Parameters/Method: Vocs; ODE; Dow Therm A; Nat Attenuation

HACH s/n: 17868; YSI s/n: 10H 100442

Sample Start Time: 0805

End Sample Time: 0810

COMMENTS:

WELL NO.: EW-38

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 70's Sampling Date: 06/12/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: n/a (ft) b. Depth to Water: 19.32 (ft)
- c. Depth to DNAPL: n/a (ft) d. Total Well Depth: 113.0 (ft)
- e. LNAPL Thickness: (a-b) n/a (ft) f. DNAPL Thickness: (c-d) n/a (ft)
- g. Length of Water Column: 93.68 (ft) (a-d)
- h. Well Volume: 137.70 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/2v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 0815 End Purge Time: 0845

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	5	200	16.56	6.73	0.126	8.7	1.25	35.4	clear	Yes	19.34
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**PURGING VALUES**

2	10	200	16.60	6.92	0.126	-19.9	0.81	21.4			19.34
3	15	200	16.65	7.04	0.125	-34.2	0.59	18.6			19.34
4	20	200	16.67	7.07	0.124	-41.6	0.53	17.4			19.35
5	25	200	16.70	7.08	0.125	-44.2	0.49	18.1			19.35
6	30	200	16.72	7.10	0.125	-46.0	0.44	17.2	↓	↓	19.36

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated teflon tubing

Sample I.D. (Name, Date, Time): EW-38 6/13/14, 0850

Sample Analytical Parameters/Method: Vocs; DDE; Dow Therm A; Nat Attenuation

HACH s/n: 28078 ; YSI s/n: 10A101442

Sample Start Time: 0850

End Sample Time: 0855

COMMENTS:

6/13/14 R Lane

WELL NO.: DW-56

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 80s Sampling Date: 06/13/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)
- b. Depth to Water: 16.41 (ft)
- c. Depth to DNAPL: N/A (ft)
- d. Total Well Depth: 71.2 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)
- f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: DNAPL 59.79 (ft) (a-d)
- h. Well Volume: 8.93 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
3	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 0835 End Purge Time: \_\_\_\_\_

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

0	3	100	20.34	6.49	87	113.2	5.80	16.1	Clear	None	16.41
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**PURGING VALUES**

1	5	100	20.65	6.41	89	117.7	2.89	14.2			16.41
2	10	100	20.59	6.41	88	116.4	3.65	13.4			16.41
3	15	100	20.74	6.41	88	114.7	3.23	7.31			16.41
4	20	100	20.70	6.38	89	112.4	2.89	5.86	✓	✓	16.41
5	25										
6											

*DH 6/13/14*

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: DHill

Sampling Method(s) & Equip: Low flow Peristaltic pump

Sample I.D. (Name, Date, Time): RW-56 6/13/14, 0906

Sample Analytical Parameters/Method: Vocs: ODE; Dow Therm A; Nat Attenuation

HACH s/n: 17868; YSI s/n: 10H100442

Sample Start Time: 0900

End Sample Time: 0905

COMMENTS:



WELL NO.: MW-40R

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: SUNNY 70° Sampling Date: 06/13/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft) b. Depth to Water: 36.26 (ft)
- c. Depth to DNAPL: N/A (ft) d. Total Well Depth: 50.50 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft) f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 14.24 (ft) (a-d)
- h. Well Volume: 2.3 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 0830 End Purge Time: 0906

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

INT	5	200	19.10	4.77	127	103.4	3.92	40.3	CLOUDY	YES	37.50
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**PURGING VALUES**

2	10	100	19.15	4.76	131	111.3	2.33	29.5	CLOUDY	YES	37.57
3	15	100	19.40	4.72	130	109.6	1.97	22.1	CLEAR	YES	37.60
4	20	100	19.54	4.69	129	107.1	1.40	17.0	CLEAR	YES	37.64
5	25	100	19.57	4.67	129	105.9	1.29	11.4	↓	↓	37.67
6	30	100	19.60	4.66	128	105.4	1.22	9.86	↓	↓	37.69
7	35	100	19.62	4.66	128	104.9	1.19	9.17	↓	↓	37.71

*John 6/13/14*

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: JEFF LEAVER

Sampling Method(s) & Equip: LOW FLOW, PUMP TUBING

Sample I.D. (Name, Date, Time): MW-40R, 6/13/14, 0910

Sample Analytical Parameters/Method: Voocs (DDE) Dow Therm A) Nat Attenuation

HACH s/n: 09120C ; YSI s/n: 09K101305

Sample Start Time: 0910

End Sample Time: 0940

COMMENTS:

WELL NO.: EW-07

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 70's Sampling Date: 06/12/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: n/a (ft)
- b. Depth to Water: 22.85 (ft)
- c. Depth to DNAPL: n/a (ft)
- d. Total Well Depth: 179.00 (ft)
- e. LNAPL Thickness: (a-b) n/a (ft)
- f. DNAPL Thickness: (c-d) n/a (ft)
- g. Length of Water Column: 156.15 (ft) (a-d)
- h. Well Volume: 229.54 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 0905 End Purge Time: 0935

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	5	300	16.41	7.13	0.121	-38.5	1.41	19.8	clear	none	22.85
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**PURGING VALUES**

2	10	300	16.44	7.17	0.121	-49.2	0.92	14.6			22.85
3	15	300	16.48	7.18	0.120	-55.6	0.77	10.7			22.86
4	20	300	16.51	7.19	0.120	-58.1	0.59	8.41			22.86
5	25	300	16.49	7.19	0.121	-59.4	0.55	8.55			22.86
6	30	300	16.47	7.20	0.120	-60.7	0.51	8.39	↓	↓	22.86

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: R Lane

Sampling Method(s) & Equip: Peristaltic Pump Dedicated teflon tubing

Sample I.D. (Name, Date, Time): EW-07 6/13/14, 0940

Sample Analytical Parameters/Method: Vocs (DDE), Dow Therm A; Nat Attenuation

HACH s/n: 28078 ; YSI s/n: 10A101447

Sample Start Time: 0940

End Sample Time: 0945

COMMENTS:

6/13/14 R Lane

WELL NO.: MW-26

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC

Weather Conditions: Sunny 80s Sampling Date: 06/13/2014

1. WATER LEVEL DATA (measured from top of inner well casing)
- a. Depth to LNAPL: N/A (ft)
  - b. Depth to Water: 25.15 (ft)
  - c. Depth to DNAPL: N/A (ft)
  - d. Total Well Depth: 35.00 (ft)
  - e. LNAPL Thickness: (a-b) N/A (ft)
  - f. DNAPL Thickness: (c-d) N/A (ft)
  - g. Length of Water Column: 9.85 (ft) (a-d)
  - h. Well Volume: 1.6 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

2. WELL PURGE DATA
- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
  - b. Field Testing Equipment: YSI 556; Hach
  - c. Required Total Purge Volume (1f x 2c) (gals.): NA
  - d. Total Volume and Number of Well Volumes Removed: NA
  - e. Begin Purge Time: 0930 End Purge Time: 0955

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
PRE PURGE VALUES											
1	5	100	22.31	5.4	63	220.7	2.69	4.20	clear	None	26.75
PURGE VALUES											
2	10	100	22.41	5.38	62	224.3	2.10	8.59	clear	None	26.75
3	15	100	22.20	5.36	61	228.2	2.06	8.84	clear	None	26.75
4	20	100	21.56	5.33	60	235.6	2.11	3.32	clear	None	26.75
5	25	100	21.30	5.31	60	237.8	2.15	3.34	clear	None	
6											

~~6/13/14 DAH~~

3. SAMPLE COLLECTION DATA

Sampling Method(s) & Equip: low flow peristaltic pump

Sample I.D. (Name, Date, Time): MW-26 6/13/14, 1000

Sample Analytical Parameters/Method: Vocs; 1000; Dow Therm A; Nat Attenuation

HACH s/n: 17868; YSI s/n: 104100442

D.H.11

Sample Start Time: 1000 End Sample Time: 1005

COMMENTS:

WELL NO.: EW-17

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny, 80°s Sampling Date: 06/13/2014

#### 1. WATER LEVEL DATA (measured from top of inner well casing)

- a. Depth to LNAPL: NA (ft)
- b. Depth to Water: 28.40 (ft)
- c. Depth to DNAPL: NA (ft)
- d. Total Well Depth: 109.00 (ft)
- e. LNAPL Thickness: (a-b) NA (ft)
- f. DNAPL Thickness: (c-d) NA (ft)
- g. Length of Water Column: 80.6 (ft) (a-d)
- h. Well Volume: 118.5 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

#### 2. WELL PURGE DATA

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 0930 End Purge Time: 1000

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
<b>PRE PURGE VALUES</b>											
1	5	100	21.3	7.45	144	-138.6	0.49	32.6	clear	none	28.44
<b>PURGE VALUES</b>											
2	10	100	21.2	7.42	144	-136.1	0.42	21.6	clear	none	28.48
3	15	100	21.3	7.40	144	-132.3	0.38	16.3	clear	none	28.52
4	20	100	21.3	7.42	143	-130.6	0.35	12.8	clear	none	28.56
5	25	100	21.4	7.44	143	-129.4	0.36	9.7	clear	none	28.63
6	30	100	21.4	7.45	143	-129.7	0.34	8.6	clear	none	28.69

#### 3. SAMPLE COLLECTION DATA

Sampling Personnel: A Hill  
 Sampling Method(s) & Equip: low flow w/ peristaltic pump  
 Sample I.D. (Name, Date, Time): EW-17 6/13/14, 1005  
 Sample Analytical Parameters/Method: Vocs: DDE/Dow Therm A Nat Attenuation  
 HACH s/n: 31559 ; YSI s/n: 10413

Sample Start Time: 1005

End Sample Time: 1030

COMMENTS:

WELL NO.: MW-03

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC

Weather Conditions: SUNNY 77° Sampling Date: 06/13/2014

1. WATER LEVEL DATA (measured from top of inner well casing)
- a. Depth to LNAPL: N/A (ft)
  - b. Depth to Water: 30.62 (ft)
  - c. Depth to DNAPL: N/A (ft)
  - d. Total Well Depth: 50.80 (ft)
  - e. LNAPL Thickness: (a-b) N/A (ft)
  - f. DNAPL Thickness: (c-d) N/A (ft)
  - g. Length of Water Column: 20.18 (ft) (a-d)
  - h. Well Volume: 3.3 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

2. WELL PURGE DATA
- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
  - b. Field Testing Equipment: YSI 556; Hach
  - c. Required Total Purge Volume (1f x 2c) (gals.): NA
  - d. Total Volume and Number of Well Volumes Removed: NA
  - e. Begin Purge Time: 0954 End Purge Time: 1037

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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PRE PURGE VALUES

INT	4	200	19.68	5.00	45	78.2	4.57	65.3	CLOUDY	NO	31.40
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PURGING VALUES

2	10	100	20.43	4.11	44	146.5	3.06	57.0	CLOUDY	NO	32.90
3	15	100	20.46	4.08	42	138.7	1.45	34.8	CLOUDY	NO	33.00
4	20	100	20.90	3.96	43	12.2	0.98	29.7	CLOUDY	NO	33.05
5	25	100	20.96	3.80	43	173.7	0.79	21.0	CLEAR	NO	33.09
6	30	100	20.99	3.76	43	174.1	0.72	17.6	↓	↓	33.13
7	36	100	21.01	3.74	43	175.0	0.67	15.9	↓	↓	33.17
8	42	100	21.04	3.73	43	175.4	0.65	15.4	↓	↓	33.20

*JA 6/13/14*

3. SAMPLE COLLECTION DATA Sampling Personnel: JEFF LEAVER
- Sampling Method(s) & Equip: LOW FLOW, PUMP TUBING
- Sample I.D. (Name, Date, Time): MW-03, 6/13/14, 1040
- Sample Analytical Parameters/Method: Vocs (DDE), Dow Therm A; Nat Attenuation
- HACH s/n: 09120C; YSI s/n: 09K101305

Sample Start Time: 1040 End Sample Time: 1055

COMMENTS: BUSTED UP PAD

WELL NO.: RW-43

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny; 80's Sampling Date: 06/13/2014

#### 1. WATER LEVEL DATA (measured from top of inner well casing)

- a. Depth to LNAPL: NA (ft) b. Depth to Water: 13.40 (ft)
- c. Depth to DNAPL: NA (ft) d. Total Well Depth: 108.0 (ft)
- e. LNAPL Thickness: (a-b) NA (ft) f. DNAPL Thickness: (c-d) NA (ft)
- g. Length of Water Column: 94.6 (ft) (a-d)
- h. Well Volume: 15.4 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

#### 2. WELL PURGE DATA

- a. Purge Method: Peristaltic (12v pump) Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 0730 End Purge Time:

Read No.	Lapse Time (min.)	Purge Rate (gpm)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
1	3	1.0	15.72	8.95	268	-69.8	2.11	10.4	clear	None	13.69
2	5	1.0	15.71	9.14	262	-64.3	0.31	6.9	clear	None	45.16
3	10	1.0	15.70	9.26	262	-58.3	0.28	4.8	clear	None	77.69
4	15	1.0	15.69	9.22	261	-57.1	0.27	8.2	clear	None	106.21
<del>DRY</del>											
<del>6/13/14 4:11</del>											

#### 3. SAMPLE COLLECTION DATA

Sampling Personnel: A.Hill  
 Sampling Method(s) & Equip: purge dry w/ submersible pump  
 Sample I.D. (Name, Date, Time): RW-43, 6/13/14, 1145  
 Sample Analytical Parameters/Method: Vocs: ODE Dow Therm A Nat Attenuation  
 HACH s/n: 31559 ; YSI s/n: 105110413

Sample Start Time: 1145

End Sample Time: 1200

COMMENTS: purge dry and allow to recharge before sampling

WELL NO.: MW-107

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: JUNNY 68° Sampling Date: 06/17/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)
- b. Depth to Water: 37.33 (ft)
- c. Depth to DNAPL: N/A (ft)
- d. Total Well Depth: 120.70 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)
- f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 83.37 (ft) (a-d)
- h. Well Volume: 13.6 (gal)

Conversion Factors (a x cf = b)	
Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic (12v pump) Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 0800 End Purge Time: 0840

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
INT.	5	300	18.41	8.05	72	57.8	10.94	32.4	CLEAR	NO	38.55
2	10	200	18.22	6.24	71	149.0	8.41	24.0	CLEAR	NO	39.34
3	15	150	18.60	5.86	72	183.1	7.43	23.2	CLEAR	NO	39.41
4	20	150	18.69	5.72	73	194.4	7.24	19.1			39.46
5	25	150	18.53	5.59	75	199.5	6.96	14.8			39.50
6	30	150	18.58	5.53	75	198.4	6.65	12.4			39.55
7	35	150	18.62	5.50	75	197.9	6.49	11.0			39.59
8	40	150	18.69	5.48	76	197.5	6.44	9.67	∇	∇	39.62

*J. J. 6/17/14*

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: JEFF LEVIER, D. HAN

Sampling Method(s) & Equip: LOW FLOW, PUMP TUBING  
 Sample I.D. (Name, Date, Time): MW-107, 6/17/14, 0844  
 Sample Analytical Parameters/Method: (Vocs; DDE; Dow Thern A; Nat Attenuation)  
 HACH s/n: 28078 ; YSI s/n: 09K101305 , Fet2 = 0.0 mg/L

Sample Start Time: 0844

End Sample Time: 0910

**COMMENTS:**

TOOK FR-01 @ 0820

WELL NO.: EW-40

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: SUNNY 78° Sampling Date: 06/17/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)
- b. Depth to Water: 32.26 (ft)
- c. Depth to DNAPL: N/A (ft)
- d. Total Well Depth: 115.30 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)
- f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 83.04 (ft) (a-d)
- h. Well Volume: 121.2 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 0924 End Purge Time: 1004

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
INT.	4	200	17.99	8.33	9,012	133.0	7.67	14.0	CLOUDY	YES	32.35
2	10	100	18.36	7.28	20,872	-88.0	1.85	11.7	CLEAR	YES	32.60
3	15	100	18.59	7.29	22,010	-89.1	1.32	10.3	CLEAR	YES	32.66
4	20	100	18.52	7.31	22,256	-95.0	1.00	12.2			32.70
5	25	100	18.78	7.31	22,594	-92.4	0.82	12.0			32.73
6	30	100	18.94	7.30	22,592	-95.3	0.78	12.0			32.76
7	35	100	18.02	7.30	22,600	-96.7	0.70	11.4			32.78
8	40	100	19.11	7.30	22,611	-98.2	0.67	11.1	↓	↓	32.81

*J.P. 6/17/14*

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: JEFF LEAVEL, DAVID HILL

Sampling Method(s) & Equip: LOW FLOW, PUMP TUBING

Sample I.D. (Name, Date, Time): EW-40, 6/17/14, 1010

Sample Analytical Parameters/Method: Vocs, DDE, Dow Therm A, Nat Attenuation

HACH s/n: 28078 ; YSI s/n: 09K101305 , Fe+2 = 7.0 mg/L

Sample Start Time: 1010

End Sample Time: 1030

COMMENTS:



WELL NO.: EW-01

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: SUNNY 85° Sampling Date: 06/17/2014

#### 1. WATER LEVEL DATA (measured from top of inner well casing)

- a. Depth to LNAPL: N/A (ft) b. Depth to Water: 34.05 (ft)
- c. Depth to DNAPL: N/A (ft) d. Total Well Depth: 90.00 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft) f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 55.95 (ft) (a-d)
- h. Well Volume: 82.25 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

#### 2. WELL PURGE DATA

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1040 End Purge Time: 1115

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
<b>PURGE V</b>											
1	4	300	18.24	7.68	397	-91.1	4.68	75.0	CLOUDY	NO	34.40
<b>GING VA</b>											
2	10	280	17.70	7.07	224	-50.0	2.11	48.7	CLOUDY	NO	34.44
3	15	280	17.43	6.76	192	-28.2	1.37	36.3	CLOUDY	NO	34.47
4	20	280	17.20	6.29	180	17.9	0.94	26.1	CLOUDY	NO	34.49
5	25	280	17.44	5.86	176	50.7	0.80	21.4	CLEAR	NO	34.50
6	30	280	17.47	5.75	176	54.2	0.76	22.6	CLEAR	NO	34.52
7	35	280	17.42	5.71	176	55.0	0.73	21.8	CLEAR	NO	34.54
<i>6/17/14</i>											

#### 3. SAMPLE COLLECTION DATA

Sampling Personnel: R. CANE, D. H. II

Sampling Method(s) & Equip: LOW FLOW PUMP TURBINE

Sample I.D. (Name, Date, Time): EW-01 6/17/14 1117

Sample Analytical Parameters/Method: Voest DDE, Dow Therm A, Nat Attenuation

HACH s/n: 28078 ; YSI s/n: 09K101305

Sample Start Time: 1117

End Sample Time: 1135

COMMENTS:

WELL NO.: EW-22

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: SUNNY 88° Sampling Date: 06/17/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)
- b. Depth to Water: 46.30 (ft)
- c. Depth to DNAPL: N/A (ft)
- d. Total Well Depth: 110.00 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)
- f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 63.70 (ft) (a-d)
- h. Well Volume: 93-4 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1240 End Purge Time: 1320

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

INT	6	200	21.04	5.63	695.2	-11.9	4.22	216.0	CLOUDY	YES	46.34
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**PURGING VALUES**

2	15	200	17.80	5.59	789.1	-27.0	2.08	128.9	CLOUDY	YES	46.39
3	20	200	17.59	5.69	788.0	-40.3	1.22	68.4	CLOUDY	YES	46.43
4	25	200	17.70	5.88	783.7	-41.7	0.91	55.7	CLOUDY		46.47
5	30	200	17.74	6.03	782.3	-43.0	0.55	44.3	CLEAR		46.50
6	35	200	17.79	6.07	782.0	-44.9	0.49	40.9	CLEAR		46.54
7	40	200	17.82	6.09	781.7	-45.5	0.44	40.0	CLEAR	✓	46.57

*J.S. 6/17/14*

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: JEFF LEAVEL

Sampling Method(s) & Equip: LOW FLOW, PUMP TUBING,

Sample I.D. (Name, Date, Time): EW-22, 6/17/14, 1324

Sample Analytical Parameters/Method: Vocs, DDE, Dow Therm A, Nat Attenuation

HACH s/n: 09120 C ; YSI s/n: 105110113

Sample Start Time: 1324

End Sample Time: 1340

COMMENTS:

WELL NO.: EW-16

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: SUNNY 88° Sampling Date: 06/17/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)      b. Depth to Water: 35.83 (ft)
- c. Depth to DNAPL: N/A (ft)      d. Total Well Depth: 127.00 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)      f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 91.17 (ft) (a-d)
- h. Well Volume: 134.0 (gal)

Conversion Factors (a x cf = b)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1355      End Purge Time: 1436

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
<b>PURGE V</b>											
INT	4	300	16.79	6.06	815.0	-1.6	4.40	77.3	TAN	YES	36.11
2	10	250	17.11	6.03	815.6	-19.0	1.91	50.8	TAN	YES	36.35
3	15	200	17.70	6.05	813.1	-22.7	1.08	45.3	TAN	YES	36.41
4	20	200	17.84	6.06	812.4	-31.6	0.77	44.1	TAN		36.44
5	25	200	17.90	6.06	812.2	-38.3	0.58	40.1	cloudy		36.46
6	30	200	17.96	6.07	812.0	-40.1	0.49	37.0	cloudy		36.48
7	35	200	18.00	6.07	811.6	-41.2	0.49	35.9	CLEAR		36.49
8	40	200	18.04	6.07	811.9	-41.9	0.39	35.4	CLEAR	↓	36.51
<i>J.J. 6/17/14</i>											

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: JEFF LEAVER

Sampling Method(s) & Equip: LOW FLOW, PUMP TUBING  
 Sample I.D. (Name, Date, Time): EW-16, 6/17/14, 1440  
 Sample Analytical Parameters/Method: Voac, DDE, Dow Therm A, Nat Attenuation  
 HACH s/n: 09120C ; YSI s/n: 10J110113

Sample Start Time: 1440  
 COMMENTS:

End Sample Time: 1500

WELL NO.: EW-27

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 80's Sampling Date: 06/17/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: n/a (ft)
- b. Depth to Water: 31.17 (ft)
- c. Depth to DNAPL: n/a (ft)
- d. Total Well Depth: 102.00 (ft)
- e. LNAPL Thickness: (a-b) n/a (ft)
- f. DNAPL Thickness: (c-d) n/a (ft)
- g. Length of Water Column: 76.83 (ft) (a-d)
- h. Well Volume: 112.94 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1225 End Purge Time: 1255

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	5	300	19.77	6.58	0.081	20.4	3.70	2.82	Tan	none	31.22
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**PURGING VALUES**

2	10	300	20.08	5.93	0.081	46.5	3.08	144	Tan		31.24
3	15	300	19.84	5.49	0.084	85.5	3.06	51	clear		31.24
4	20	300	19.72	5.39	0.082	84.3	2.97	54	↓	↓	31.24
5	25	300	19.53	5.32	0.084	81.6	2.76	56	↓	↓	31.24
6	30	300	19.47	5.35	0.083	79.4	2.82	60	↓	↓	31.24

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: RLane

Sampling Method(s) & Equip: 12V pump Dedicated teflon tubing

Sample I.D. (Name, Date, Time): EW-27 6/17/14 1300

Sample Analytical Parameters/Method: Vocs: DDE; Dow Therm A; Nat Attenuation

HACH s/n: 28078 ; YSI s/n: 09K101305

Sample Start Time: 1300

End Sample Time: 1315

COMMENTS:

*6/17/14 RLane*

WELL NO.: mw-97

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 90's Sampling Date: 06/17/2014

1. WATER LEVEL DATA (measured from top of inner well casing)
- a. Depth to LNAPL: n/a (ft) b. Depth to Water: 35.60 (ft)
  - c. Depth to DNAPL: n/a (ft) d. Total Well Depth: 49.50 (ft)
  - e. LNAPL Thickness: (a-b) n/a (ft) f. DNAPL Thickness: (c-d) n/a (ft)
  - g. Length of Water Column: 13.9 (ft) (a-d)
  - h. Well Volume: 2.26 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
②	0.163
4	0.653
6	1.470

2. WELL PURGE DATA
- a. Purge Method: Peristaltic (12v pump) Ext Well/Surface Water
  - b. Field Testing Equipment: YSI 556; Hach
  - c. Required Total Purge Volume (1f x 2c) (gals.): NA
  - d. Total Volume and Number of Well Volumes Removed: NA
  - e. Begin Purge Time: 1435 End Purge Time: 1505

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
VALUES											
1	5	300	17.79	3.30	0.035	314.3	10.39	13.7	clear	none	35.67
VALUES											
2	10	300	17.54	3.06	0.034	325.1	10.19	5.14			35.67
3	15	300	17.70	2.83	0.034	321.2	9.54	2.26			35.69
4	20	300	17.82	2.81	0.035	319.0	9.40	1.97			35.69
5	25	300	17.86	2.79	0.035	318.1	9.46	1.76			35.70
6	30	300	17.93	2.77	0.034	317.0	9.42	1.68	↓	↓	35.70
6/17/14 R. Lane											

3. SAMPLE COLLECTION DATA Sampling Personnel: R. Lane

Sampling Method(s) & Equip: 12V Pump Dedicated teflon tubing

Sample I.D. (Name, Date, Time): mw-97, 6/17/14, 1510

Sample Analytical Parameters/Method: Vocs; (ODE; Dow Therm A) Nat Attenuation

HACH s/n: 28078 ; YSI s/n: 09K101305

Sample Start Time: 1510 End Sample Time: 1520

COMMENTS:

WELL NO.: MW-96

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 90's Sampling Date: 06/17/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: n/a (ft) b. Depth to Water: 35.92 (ft)
- c. Depth to DNAPL: n/a (ft) d. Total Well Depth: 62.50 (ft)
- e. LNAPL Thickness: (a-b) (ft) f. DNAPL Thickness: (c-d) (ft)
- g. Length of Water Column: 26.58 (ft) (a-d)
- h. Well Volume: 26.4,34 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic (12v pump) Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1340 End Purge Time: 1410

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	5	200	17.17	4.95	0.042	207.8	6.38	11.9	clear	none	35.97
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**PURGING VALUES**

2	10	200	16.70	4.24	0.040	248.7	6.31	7.42			35.99
3	15	200	16.94	4.05	0.041	256.1	5.99	4.56			35.99
4	20	200	16.98	3.97	0.042	259.5	5.24	3.97			36.00
5	25	200	16.91	3.94	0.041	264.2	5.30	3.74			36.00
6	30	200	16.93	3.91	0.042	262.3	5.27	3.56	✓	✓	36.00

*6/17/14 Plane*

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: R Lane

Sampling Method(s) & Equip: 12V Pump dedicated teflon tubing

Sample I.D. (Name, Date, Time): MW-96 6/17/14, 1415

Sample Analytical Parameters/Method: Vocs (DDE; Dow Therm) Nat Attenuation

HACH s/n: 28078 ; YSI s/n: 0914101305

Sample Start Time: 1415

End Sample Time: 1430

COMMENTS:

WELL NO.: EW-15

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: SUNNY 90° Sampling Date: 06/17/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)
- b. Depth to Water: 31.91 (ft)
- c. Depth to DNAPL: N/A (ft)
- d. Total Well Depth: 78.00 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)
- f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 46.09 (ft) (a-d)
- h. Well Volume: 67.8 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1550 End Purge Time: 1630

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
<b>PURGE VALUES</b>											
<u>INT</u>	<u>4</u>	<u>300</u>	<u>16.91</u>	<u>6.75</u>	<u>242</u>	<u>4.7</u>	<u>7.05</u>	<u>389.7</u>	<u>TAN</u>	<u>NO</u>	<u>32.19</u>
<b>GING VA</b>											
<u>2</u>	<u>10</u>	<u>260</u>	<u>16.94</u>	<u>6.69</u>	<u>243</u>	<u>-29.3</u>	<u>3.44</u>	<u>233.0</u>	<u>TAN</u>	<u>NO</u>	<u>32.24</u>
<u>3</u>	<u>15</u>	<u>260</u>	<u>16.78</u>	<u>6.68</u>	<u>243</u>	<u>-38.9</u>	<u>1.96</u>	<u>180.6</u>	<u>TAN</u>	<u>NO</u>	<u>32.28</u>
<u>4</u>	<u>20</u>	<u>260</u>	<u>16.62</u>	<u>6.67</u>	<u>244</u>	<u>-56.7</u>	<u>1.20</u>	<u>149.1</u>	<u>TAN</u>	<u>NO</u>	<u>32.31</u>
<u>5</u>	<u>25</u>	<u>260</u>	<u>16.58</u>	<u>6.67</u>	<u>244</u>	<u>-70.1</u>	<u>0.88</u>	<u>122.7</u>			<u>32.33</u>
<u>6</u>	<u>30</u>	<u>260</u>	<u>16.55</u>	<u>6.66</u>	<u>244</u>	<u>-77.3</u>	<u>0.69</u>	<u>120.4</u>			<u>32.34</u>
<u>7</u>	<u>35</u>	<u>260</u>	<u>16.52</u>	<u>6.65</u>	<u>244</u>	<u>-78.9</u>	<u>0.63</u>	<u>120.9</u>			<u>32.36</u>
<u>8</u>	<u>40</u>	<u>260</u>	<u>16.50</u>	<u>6.65</u>	<u>244</u>	<u>-80.0</u>	<u>0.58</u>	<u>121.8</u>	<u>↓</u>	<u>↓</u>	<u>32.36</u>
<u>JEFF LOANE</u> 6/17/14											

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: JEFF LOANE

Sampling Method(s) & Equip: LOW FLOW, PUMP TUBING  
 Sample I.D. (Name, Date, Time): EW-15, 6/17/14, 1633  
 Sample Analytical Parameters/Method: Voes, DDE, Dow Therm A, Nat Attenuation  
 HACH s/n: 09120C; YSI s/n: 10511013

Sample Start Time: 1633

End Sample Time: 1700

COMMENTS:

WELL NO.: EW-20

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: Sunny 90's Sampling Date: 06/17/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: n/A (ft)
- b. Depth to Water: 43.10 (ft)
- c. Depth to DNAPL: n/A (ft)
- d. Total Well Depth: 116.00 (ft)
- e. LNAPL Thickness: (a-b) \_\_\_\_\_ (ft)
- f. DNAPL Thickness: (c-d) n/A (ft)
- g. Length of Water Column: 72.9 (ft) (a-d)
- h. Well Volume: 107.16 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic (12v pump) Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1640 End Purge Time: 1710

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

1	5	200	17.81	6.31	147	35.5	0.90	49.0	clear	none	43.12
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**PURGING VALUES**

2	10	200	17.41	5.99	155	25.1	0.62	38.7			43.12
3	15	200	17.35	5.91	155	21.4	0.56	34.3			43.13
4	20	200	17.21	5.78	156	16.6	0.52	36.2			43.13
5	25	200	17.26	5.74	156	18.1	0.49	36.7			43.13
6	30	200	17.31	5.73	156	16.8	0.45	35.8	↓	↓	43.13

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: R Lane

Sampling Method(s) & Equip: 12v Pump Dedicated testion tubing

Sample I.D. (Name, Date, Time): EW-20 6/17/14 1715

Sample Analytical Parameters/Method: Vocs; DDE Dow Therm A; Nat Attenuation

HACH s/n: 28078 ; YSI s/n: 09K101305

Sample Start Time: 1715

End Sample Time: 1720

COMMENTS:

*6/17/14  
Plane*



WELL NO.: EW-14

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: sunny 90's Sampling Date: 06/17/2014

#### 1. WATER LEVEL DATA (measured from top of inner well casing)

a. Depth to LNAPL: n/a (ft) b. Depth to Water: 48.85 (ft)  
 c. Depth to DNAPL: n/a (ft) d. Total Well Depth: 110.00 (ft)  
 e. LNAPL Thickness: (a-b) n/a (ft) f. DNAPL Thickness: (c-d) n/a (ft)  
 g. Length of Water Column: 61.15 (ft) (a-d)  
 h. Well Volume: 89.89 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

#### 2. WELL PURGE DATA

a. Purge Method: Peristaltic (12v pump) Ext Well/Surface Water  
 b. Field Testing Equipment: YSI 556; Hach  
 c. Required Total Purge Volume (1f x 2c) (gals.): NA  
 d. Total Volume and Number of Well Volumes Removed: NA  
 e. Begin Purge Time: 1540 End Purge Time: 1610

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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#### PRE PURGE VALUES

1	5	200	18.34	5.16	0.158	47.5	1.71	9.76	clear	none	48.87
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#### PURGING VALUES

2	10	200	18.74	4.89	0.159	62.1	2.06	6.42	↓	↓	48.89
3	15	200	18.91	4.85	0.158	81.7	1.42	5.38	↓	↓	48.89
4	20	200	19.06	4.85	160	76.3	1.23	5.40	↓	↓	48.90
5	25	200	19.10	4.83	161	75.6	1.27	5.31	↓	↓	48.90
6	30	200	19.15	4.81	161	74.2	1.20	5.24	↓	↓	48.90

#### 3. SAMPLE COLLECTION DATA

Sampling Personnel: R Lane

Sampling Method(s) & Equip: 12V Pump Dedicated teflon tubing

Sample I.D. (Name, Date, Time): EW-14 6/17/14 1615

Sample Analytical Parameters/Method: (Vocs; DDE; Dow Therm A) Nat Attenuation

HACH s/n: 28078 ; YSI s/n: 09K101305

Sample Start Time: 1615

End Sample Time: 1630

COMMENTS:

6/17/14 R Lane

WELL NO.: RW-24

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: SUNNY 82° Sampling Date: 06/18/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)
- b. Depth to Water: 35.26 (ft)
- c. Depth to DNAPL: N/A (ft)
- d. Total Well Depth: 84.70 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)
- f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: 49.34 (ft) (a-d)
- h. Well Volume: 32.2 (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 1030 End Purge Time: 1106

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
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**PRE PURGE VALUES**

INT	4	300	18.37	6.00	580	3.7	10.69	14.2	CLAR	NO	35.40
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**PURGING VALUES**

2	10	300	18.06	5.91	589	1.0	3.54	11.9	CLAR	NO	35.42
3	15	300	17.45	5.72	587	-9.5	2.19	9.64			35.45
4	20	300	17.58	5.63	590	-16.2	1.03	7.72			35.47
5	25	300	17.62	5.61	594	-22.4	0.79	7.40			35.48
6	30	300	17.67	5.61	597	-24.1	0.73	7.08			35.50
7	35	300	17.70	5.60	599	-24.7	0.68	6.94	✓	✓	35.51

*J.J. 6/18/14*

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: JEFF LEAVER

Sampling Method(s) & Equip: LOW FLOW, PUMP TUBING  
 Sample I.D. (Name, Date, Time): RW-24, 6/18/14, 1110  
 Sample Analytical Parameters/Method: Vocs, DDE (Dow Therm A), Nat Attenuation  
 HACH s/n: 28078 ; YSI s/n: 09K101305

Sample Start Time: 1110

End Sample Time: 1128

COMMENTS:

WELL NO.: EW-32

### GROUNDWATER SAMPLE COLLECTION RECORD

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: SUNNY 77° Sampling Date: 06/18/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)
- b. Depth to Water: 31.10 (ft)
- c. Depth to DNAPL: N/A (ft)
- d. Total Well Depth: 75.00 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)
- f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: \_\_\_\_\_ (ft) (a-d)
- h. Well Volume: \_\_\_\_\_ (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
<u>6</u>	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic/12v pump/Ext Well/Surface Water
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 0800 End Purge Time: 0836

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
PRE I											
INT	4	300	20.50	6.68	256	3.1	9.44	42.3	cloudy	SLIGHT	31.27
2	10	300	19.16	5.96	247	52.0	3.11	11.0	cloudy	SLIGHT	31.29
3	15	300	19.64	5.43	244	88.9	1.27	10.8			31.30
4	20	300	19.68	5.28	245	95.4	0.92	9.66			31.30
5	25	300	19.72	5.21	242	94.8	0.79	8.94			31.30
6	30	300	19.75	5.27	240	94.0	0.73	8.22			31.31
7	35	300	19.79	5.26	239	93.7	0.70	6.41	↓	↓	31.31
<i>J.F. 6/18/14</i>											

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: SELF LEAVED

Sampling Method(s) & Equip: LOW FLOW, PUMP TUBING  
 Sample I.D. (Name, Date, Time): EW-32, 6/18/14, 0840  
 Sample Analytical Parameters/Method: Vocs, DDE, Dow Therm A, Nat Attenuation  
 HACH s/n: 28078 ; YSI s/n: 095101305

Sample Start Time: 0840

End Sample Time: 0855

COMMENTS:

WELL NO.: EW-26

**GROUNDWATER SAMPLE  
COLLECTION RECORD**

PERMIT NO.:

Project No.: 62510.04 Client: Celanese Corp.  
 Project Name: Auriga Polymers, Inc. Project Location: Spartanburg, SC  
 Weather Conditions: SUNNY 80° Sampling Date: 06/18/2014

**1. WATER LEVEL DATA (measured from top of inner well casing)**

- a. Depth to LNAPL: N/A (ft)
- b. Depth to Water: 53.30 (ft)
- c. Depth to DNAPL: N/A (ft)
- d. Total Well Depth: 85.00 (ft)
- e. LNAPL Thickness: (a-b) N/A (ft)
- f. DNAPL Thickness: (c-d) N/A (ft)
- g. Length of Water Column: (ft) (a-d)
- h. Well Volume: (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

**2. WELL PURGE DATA**

- a. Purge Method: Peristaltic (12v pump/Ext Well/Surface Water)
- b. Field Testing Equipment: YSI 556; Hach
- c. Required Total Purge Volume (1f x 2c) (gals.): NA
- d. Total Volume and Number of Well Volumes Removed: NA
- e. Begin Purge Time: 0910 End Purge Time: 0950

Read No.	Lapse Time (min.)	Purge Rate (ml/min)	Temp (deg. C) (±10%)	pH (0.1s.u.) (±0.1)	Spec. Cond. (0.1uS/cm) (±10%)	Eh/ORP (1.0mV) (±10mV)	Diss O2 (0.1mg/L) (±10%)	TURB (1.0NTU) (<10NTU)	Color	Odor	Water Level (ft)
----------	-------------------	---------------------	----------------------	---------------------	-------------------------------	------------------------	--------------------------	------------------------	-------	------	------------------

**PRE PURGE VALUES**

INT	3	300	16.93	7.08	281	-56.3	8.13	21.0	CLEAR	NO	53.54
-----	---	-----	-------	------	-----	-------	------	------	-------	----	-------

**PURGING VALUES**

2	9	260	16.64	6.87	276	-64.8	2.92	19.4	CLEAR	NO	53.61
3	15	260	16.62	6.60	276	-69.0	1.38	14.1			53.66
4	20	260	16.69	6.48	275	-74.5	0.71	10.8			53.69
5	25	260	16.78	6.36	274	-77.9	0.58	6.27			53.71
6	30	260	16.85	6.33	274	-78.4	0.52	6.11			53.73
7	35	260	16.91	6.30	274	-79.1	0.46	5.24			53.74
8	40	260	16.96	6.28	274	-79.6	0.44	5.08	V	V	53.76

*Jeff Leaver 6/18/14*

**3. SAMPLE COLLECTION DATA**

Sampling Personnel: JEFF LEAVER

Sampling Method(s) & Equip: LOW FLOW, PUMP TUBING

Sample I.D. (Name, Date, Time): EW-26, 6/18/14, 0954

Sample Analytical Parameters/Method: Voese DDE, Dow Therm A, Nat Attenuation

HACH s/n: 28078 ; YSI s/n: 09K101305

Sample Start Time: 0954

End Sample Time: 1015

COMMENTS:



July 01, 2014

Service Request No: R1404628

Mr. Bryon Dahlgren  
AECOM, Inc.  
1360 Peachtree Street NE  
Suite 500  
Atlanta, GA 30309

**Laboratory Results for: Auriga Spartanburg/60280417.610**

Dear Mr. Dahlgren:

Enclosed are the results of the sample(s) submitted to our laboratory on June 18, 2014. For your reference, these analyses have been assigned our service request number **R1404628**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at [Janice.Jaeger@alsglobal.com](mailto:Janice.Jaeger@alsglobal.com).

Respectfully submitted,

**ALS Group USA Corp. dba ALS Environmental**

  
Janice Jaeger  
Client Services Manager

Page 1 of 10

## CASE NARRATIVE

<b>Client:</b>	AECOM	<b>Service Request:</b>	R1404628
<b>Project:</b>	Auriga	<b>Project Number:</b>	60280417
<b>Sample Matrix:</b>	Water	<b>Date Received:</b>	06/18/14

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

### Sample Receipt

Samples were collected on 06/17/14 and received on 06/18/14 at a cooler temperature of 2.6°C in good condition except as noted on the cooler receipt and preservation check form. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory.

### 1,4-Dioxane

One water sample was analyzed for 1,4-Dioxane by Method 522.

All Tuning criteria were within QC limits.

All the initial and continuing calibration criteria were met for all analytes.

All Internal Standard Areas (IS) were within QC limits except the IS was outside limits high for the LCS/LCSD. As the LCS/LCSD recoveries were within limits, the data was accepted.

All Surrogate Standard recoveries were acceptable.

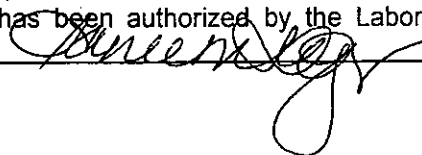
All Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD) recoveries were within limits. All RPD's were acceptable.

Site specific QC was not requested on these samples.

The Method Blanks associated with these samples were free of contamination.

No other analytical or QC problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the details conditioned above. Release of the data contained in this data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.



---

### ALS ASP/CLP Batching Form/Login Sheet

Client Proj #: 60280417.610	Batch Complete: Yes	Date Revised:
Submission: R1404628	Diskette Requested: No	Date Due: 7/9/14
Client: AECOM, Inc.	Date: 7/1/14	Protocol: EPA
Client Rep: JJAEGER	Custody Seal: Present/Absent:	Shipping No.:
Project: Auriga Spartanburg	Chain of Custody: Present/Absent:	SDG #:

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1404628-001	MW-95	Water	522	6/17/14	6/18/14			



Folder Comments:



**REPORT QUALIFIERS AND DEFINITIONS**

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.
- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)  
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



**Rochester Lab ID # for State Certifications<sup>1</sup>**

NELAP Accredited	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Connecticut ID # PH0556	Nebraska Accredited	
Delaware Accredited	Nevada ID # NY-00032	North Carolina #676
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047		Virginia #460167

<sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>

RIGHT SOLUTIONS ; RIGHT PARTNER





# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

16141

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name <i>Auriga</i>		Project Number <i>6028047.610</i>		ANALYSIS REQUESTED (Include Method Number and Container Preservative)															
Project Manager <i>Bryan Dallgren</i>		Report CC		PRESERVATIVE															
Company/Address <i>AECOM</i>		NUMBER OF CONTAINERS		<i>GC/MS VOAs • 8260 • 624 • CLP GC/MS SVOAs • 8270 • 825 GC VOAs • 8021 • 601/602 PESTICIDES • 8081 • 608 PCBs • 8082 • 608 METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below) <i>5/23/14 Dixie FP 003</i></i>										Preservative Key					
One Midtown Plaza, 1360 Peachtree St NE, Atlanta GA 30309														0. NONE 1. HCL 2. HNO <sub>3</sub> 3. H <sub>2</sub> SO <sub>4</sub> 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO <sub>4</sub> 8. Other _____					
Phone # <i>1-404-965-9657</i>														REMARKS/ ALTERNATE DESCRIPTION					
Samples Signature <i>Randy Morgan</i>		Samples Printed Name <i>Randy Morgan</i>																	
CLIENT SAMPLE ID		FOR OFFICE USE ONLY LAB ID	SAMPLING DATE		TIME		MATRIX												
<i>MW-95</i>			<i>10-17-14</i>		<i>1203</i>		<i>Ground water 2</i>												
SPECIAL INSTRUCTIONS/COMMENTS <i>Metals - STAT - Standard Turnaround Time</i>										TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day ___ 2 day ___ 3 day ___ 4 day ___ 5 day ___ <i>STAT</i> REQUESTED REPORT DATE _____			REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data Edata ___ Yes ___ No			INVOICE INFORMATION PO # _____ BILL TO: _____			
STATE WHERE SAMPLES WERE COLLECTED <i>Spartanburg SC</i>																			
RELINQUISHED BY <i>Randy Morgan</i>		RECEIVED BY <i>Debra Yip</i>		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY					
Signature <i>Randy Morgan</i>		Signature <i>Debra Yip</i>		Signature		Signature		Signature		Signature		Signature		Signature					
Printed Name <i>Randy Morgan</i>		Printed Name <i>Debra Yip</i>		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name					
Firm <i>AECOM</i>		Firm <i>AECOM</i>		Firm		Firm		Firm		Firm		Firm		Firm					
Date/Time <i>10-17-14 1430</i>		Date/Time <i>10/18/14 0855</i>		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time					

**R1404628** **5**  
 AECOM, Inc.  
 Auriga Spartanburg



# Cooler Receipt and Preservation Check Form

Project/Client Ascom Folder Number R14-4628

Cooler received on 6/18/14 by: (Signature)

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="radio"/> Y <input type="radio"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="radio"/> Y <input type="radio"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="radio"/> Y <input type="radio"/> N
4	Circle: Wet Ice Dry Ice Gel packs present?	<input checked="" type="radio"/> Y <input type="radio"/> N

5a	Perchlorate samples have required headspace?	Y N <input checked="" type="radio"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y N <input checked="" type="radio"/> NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<input checked="" type="radio"/> NA

8. Temperature Readings Date: 6/18/14 Time: 0959 ID: IR#3 IR#4 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>2.4°</u>						
Correction Factor (°C)	<u>10.2</u>						
Corrected Temp (°C)	<u>2.6°</u>						
Within 0-6°C?	<input checked="" type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted \_\_\_\_\_ Poorly Packed \_\_\_\_\_ Same Day Rule \_\_\_\_\_

& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval \_\_\_\_\_ Client aware at drop-off \_\_\_\_\_ Client notified by: \_\_\_\_\_

All samples held in storage location: R-002 by (Signature) on 6/18/14 at 1010  
 5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_

PC Secondary Review: (Signature) 6/18/14

Cooler Breakdown: Date: 6/18/14 Time: 1355 by: (Signature)

- Were all bottle labels complete (i.e. analysis, preservation, etc.)?  YES  NO
- Did all bottle labels and tags agree with custody papers?  YES  NO
- Were correct containers used for the tests indicated?  YES  NO
- Air Samples: Cassettes / Tubes Intact \_\_\_\_\_ Canisters Pressurized \_\_\_\_\_ Tedlar® Bags Inflated  N/A

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO <sub>3</sub>								
≤2	H <sub>2</sub> SO <sub>4</sub>								
<4	NaHSO <sub>4</sub>	<input checked="" type="checkbox"/>		<u>BDB 1234</u>	<u>5/15</u>				
Residual Chlorine (-)	For CN Phenol and 522	<input checked="" type="checkbox"/>		If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-						
	Zn Acetate	-	-						
	HCl	**	**						

Yes=All samples OK  
No=Samples were preserved at The lab as listed

\*\*Not to be tested before analysis - pH tested and recorded by VOAs on a separate worksheet

PM OK to Adjust: \_\_\_\_\_

Bottle lot numbers: 021014-1BMC

Other Comments:

*(Handwritten notes)*  
Signy  
6/18/14

PC Secondary Review: (Signature) 6/30/14

\*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.610  
 Sample Matrix: Water

Service Request: R1404628  
 Date Collected: 6/17/14 1203  
 Date Received: 6/18/14  
 Date Extracted: 6/25/14  
 Date Analyzed: 6/26/14 14:35

Sample Name: MW-95  
 Lab Code: R1404628-001

Units: µg/L  
 Basis: As Received

1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

Analytical Method: 522  
 Prep Method: Method  
 Data File Name: I:\ACQUDATA\5975E\data\062614\AG073.D\

Analysis Lot: 399233  
 Extraction Lot: 211375  
 Instrument Name: R-MS-56  
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
123-91-1	1,4-Dioxane	0.0404	0.0400	0.0200	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	91	70-130	6/26/14 14:35	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.610  
 Sample Matrix: Water

Service Request: R1404628  
 Date Collected: NA  
 Date Received: NA  
 Date Extracted: 6/25/14  
 Date Analyzed: 6/26/14 12:45

Sample Name: Method Blank  
 Lab Code: RQ1407012-01

Units: µg/L  
 Basis: As Received

1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

Analytical Method: 522  
 Prep Method: Method  
 Data File Name: I:\ACQUADATA\5975E\data\062614\AG067.D\

Analysis Lot: 399233  
 Extraction Lot: 211375  
 Instrument Name: R-MS-56  
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
123-91-1	1,4-Dioxane	0.0400	U	0.0400	0.0200	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	89	70-130	6/26/14 12:45	



Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.610  
 Sample Matrix: Water

Service Request: R1404628  
 Date Analyzed: 6/26/14

**Lab Control Sample Summary**  
**1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring**

Analytical Method: 522  
 Prep Method: Method

Units: µg/L  
 Basis: As Received

Extraction Lot: 211375

Analyte Name	Lab Control Sample RQ1407012-02			Duplicate Lab Control Sample RQ1407012-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,4-Dioxane	8.97	10.1	89	8.78	10.1	87	70 - 130	2	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.610  
 Sample Matrix: Water

Service Request: R1404628  
 Date Analyzed: 6/26/14

**Lab Control Sample Summary**  
**1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring**

Analytical Method: 522  
 Prep Method: Method

Units: µg/L  
 Basis: As Received

Extraction Lot: 211375

**Lab Control Sample**  
 RQ1407012-04

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,4-Dioxane	0.0468	0.0405	116	70 - 130

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



July 01, 2014

Service Request No: R1404628

Mr. Bryon Dahlgren  
AECOM, Inc.  
1360 Peachtree Street NE  
Suite 500  
Atlanta, GA 30309

**Laboratory Results for: Auriga Spartanburg/60280417.610**

Dear Mr. Dahlgren:

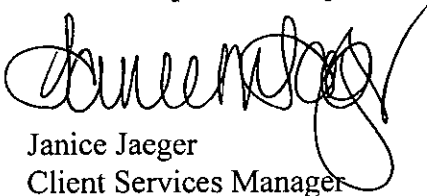
Enclosed are the results of the sample(s) submitted to our laboratory on June 18, 2014. For your reference, these analyses have been assigned our service request number **R1404628**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at [Janice.Jaeger@alsglobal.com](mailto:Janice.Jaeger@alsglobal.com).

Respectfully submitted,

**ALS Group USA Corp. dba ALS Environmental**



Janice Jaeger  
Client Services Manager

Page 1 of 75



## **SDG NARRATIVE**

**ALS Environmental - Rochester, NY**  
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



## CASE NARRATIVE

<b>Client:</b>	AECOM	<b>Service Request:</b>	R1404628
<b>Project:</b>	Auriga	<b>Project Number:</b>	60280417
<b>Sample Matrix:</b>	Water	<b>Date Received:</b>	06/18/14

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

### Sample Receipt

Samples were collected on 06/17/14 and received on 06/18/14 at a cooler temperature of 2.6°C in good condition except as noted on the cooler receipt and preservation check form. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory.

### 1,4-Dioxane

One water sample was analyzed for 1,4-Dioxane by Method 522.

All Tuning criteria were within QC limits.

All the initial and continuing calibration criteria were met for all analytes.

All Internal Standard Areas (IS) were within QC limits except the IS was outside limits high for the LCS/LCSD. As the LCS/LCSD recoveries were within limits, the data was accepted.

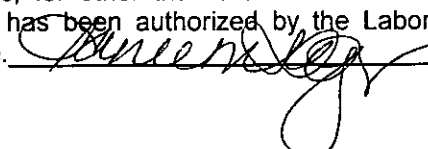
All Surrogate Standard recoveries were acceptable.

All Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD) recoveries were within limits. All RPD's were acceptable.

Site specific QC was not requested on these samples.

The Method Blanks associated with these samples were free of contamination.

No other analytical or QC problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the details conditioned above. Release of the data contained in this data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature. 

## ALS ASP/CLP Batching Form/Login Sheet

Client Proj #: 60280417.610	Batch Complete: Yes	Date Revised:
Submission: R1404628	Diskette Requested: No	Date Due: 7/9/14
Client: AECOM, Inc.	Date: 7/1/14	Protocol: EPA
Client Rep: JJAEGER	Custody Seal: Present/Absent:	Shipping No.:
Project: Auriga Spartanburg	Chain of Custody: Present/Absent:	SDG #:

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1404628-001	MW-95	Water	522	6/17/14	6/18/14			

00004

Folder Comments:



REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).
B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E Organics- Concentration has exceeded the calibration range for that specific analysis.
D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
\* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
# Spike was diluted out.
+ Correlation coefficient for MSA is <0.995.
N Inorganics- Matrix spike recovery was outside laboratory limits.
N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S Concentration has been determined using Method of Standard Additions (MSA).
W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P Concentration >40% (25% for CLP) difference between the two GC columns.
C Confirmed by GC/MS
Q DoD reports: indicates a pesticide/Aroclor is not confirmed (>=100% Difference between two GC columns).
X See Case Narrative for discussion.
MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Table with 3 columns: State ID, State Name, and State ID #. Rows include Connecticut, Delaware, Florida, Illinois, Maine, Nebraska, Nevada, New Jersey, New York, North Carolina, Pennsylvania, Rhode Island, and Virginia.

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads





## CHAINS OF CUSTODY

**ALS Environmental - Rochester, NY**  
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# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

16141

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name <b>Auriga</b>		Project Number <b>00280417.610</b>		ANALYSIS REQUESTED (Include Method Number and Container Preservative)												
Project Manager <b>Bryan Dattgren</b>		Report CC		PRESERVATIVE												
Company/Address <b>AECOM</b>				NUMBER OF CONTAINERS	GC/MS VOA's • 8280 • 824 • CLP	GC/MS SVOA's • 8270 • 825	GC VOA's • 8021 • 801/802	PESTICIDES • 8981 • 808	PCBS • 8092 • 808	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	<b>523/1/4 Dip Xylene FP</b>	<b>802</b>	<b>803</b>	Preservative Key	
One Midtown Plaza, 1360 Peachtree St NE, Atlanta GA 30309															0. NONE	
Phone # <b>1-404-965-9657</b>		Email													1. HCL	
Sample Signature <b>Randy Morgan</b>		Sample Printed Name <b>Randy Morgan</b>													2. HNO <sub>3</sub>	
CLIENT SAMPLE ID <b>MW-95</b>		FOR OFFICE USE ONLY LAB ID		SAMPLING DATE <b>10-17-14</b>		SAMPLING TIME <b>1203</b>		MATRIX <b>Ground water</b>		<b>2</b>		<b>X</b>		3. H <sub>2</sub> SO <sub>4</sub>		
														4. NaOH		
SPECIAL INSTRUCTIONS/COMMENTS <b>Metals STAT - Standard Turnaround Time</b>				TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day <b>STAT</b> REQUESTED REPORT DATE				REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data Edata Yes No				INVOICE INFORMATION PO # BILL TO:				
STATE WHERE SAMPLES WERE COLLECTED <b>Spartanburg SC</b>																
RELINQUISHED BY <b>Randy Morgan</b>		RECEIVED BY <b>Gregory</b>		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY						
Signature <b>Randy Morgan</b>		Signature <b>Gregory</b>		Signature		Signature		Signature		Signature						
Printed Name <b>AECOM</b>		Printed Name <b>Gregory</b>		Printed Name		Printed Name		Printed Name		Printed Name						
Firm <b>10-17-14 1430</b>		Firm <b>10/18/14 0935</b>		Firm		Firm		Firm		Firm						
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time						

R1404628 5

AECOM, Inc.  
Auriga Spartanburg



# Cooler Receipt and Preservation Check Form

Project/Client ASCOM Folder Number R14-4628

Cooler received on 6/18/14 by: AD COURIER: ALS UPS ~~FEDEX~~ VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="radio"/> Y <input type="radio"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="radio"/> Y <input type="radio"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="radio"/> Y <input type="radio"/> N
4	Circle: Wet Ice Dry Ice Gel packs present?	<input checked="" type="radio"/> Y <input type="radio"/> N

5a	Perchlorate samples have required headspace?	Y N <input checked="" type="radio"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y N <input checked="" type="radio"/> NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<input checked="" type="radio"/> NA

8. Temperature Readings Date: 6/18/14 Time: 0959 ID: IR#3 IR#4 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>2.4°</u>						
Correction Factor (°C)	<u>10.2</u>						
Corrected Temp (°C)	<u>2.6°</u>						
Within 0-6°C?	<input checked="" type="radio"/> Y <input type="radio"/> N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted \_\_\_\_\_ Poorly Packed \_\_\_\_\_ Same Day Rule \_\_\_\_\_  
& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval \_\_\_\_\_ Client aware at drop-off \_\_\_\_\_ Client notified by: \_\_\_\_\_

All samples held in storage location: R-002 by AD on 6/18/14 at 1010  
5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_

PC Secondary Review: ms 6/18/14

Cooler Breakdown: Date: 6/18/14 Time: 1355 by: AD

- Were all bottle labels complete (i.e. analysis, preservation, etc.)?  YES  NO
- Did all bottle labels and tags agree with custody papers?  YES  NO
- Were correct containers used for the tests indicated?  YES  NO
- Air Samples: Cassettes / Tubes Intact \_\_\_\_\_ Canisters Pressurized \_\_\_\_\_ Tedlar® Bags Inflated  N/A

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO <sub>3</sub>								
≤2	H <sub>2</sub> SO <sub>4</sub>								
<4	NaHSO <sub>4</sub>	<input checked="" type="checkbox"/>		<u>BDA36123H</u>	<u>5/15</u>				
Residual Chlorine (-)	For CN Phenol and 522	<input checked="" type="checkbox"/>		If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

Yes=All samples OK  
No=Samples were preserved at The lab as listed  
PM OK to Adjust: \_\_\_\_\_

\*\*Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 021014-1BMC  
Other Comments:

*August 4/14*  
*Ernst*  
*6/18/14 0955*

PC Secondary Review: ms 6/30/14 \*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



ALS ENVIRONMENTAL  
Chain of Custody Report

Client: AECOM, Inc.  
Project: Auriga Spartanburg/60280417.610

Service Request: R1404628

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1404628-001.01	522	6/18/14	1400	SMO / JSEWARD	
		6/25/14	1048	In Lab / LPRUNOSKE	
		6/25/14	1207	R-002 / AGRAHAM	
R1404628-001.02		6/18/14	1400	SMO / JSEWARD	



# PERCHLORATE QC SUMMARY

**ALS Environmental - Rochester, NY**  
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Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.610  
 Sample Matrix: Water

Service Request: R1404628  
 Date Analyzed: 6/26/14

**Lab Control Sample Summary**  
**1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring**

Analytical Method: 522  
 Prep Method: Method

Units: µg/L  
 Basis: As Received

Extraction Lot: 211375

Analyte Name	Lab Control Sample RQ1407012-02			Duplicate Lab Control Sample RQ1407012-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,4-Dioxane	8.97	10.1	89	8.78	10.1	87	70 - 130	2	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.610  
 Sample Matrix: Water

Service Request: R1404628  
 Date Analyzed: 6/26/14

Lab Control Sample Summary  
 1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

Analytical Method: 522  
 Prep Method: Method

Units: µg/L  
 Basis: As Received  
 Extraction Lot: 211375

Lab Control Sample  
 RQ1407012-04

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,4-Dioxane	0.0468	0.0405	116	70 - 130

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: AECOM, Inc.  
Project: Auriga Spartanburg/60280417.610  
Sample Matrix: Water

Service Request: R1404628  
Date Analyzed: 6/26/14 12:45  
Date Extracted: 6/25/14

Method Blank Summary  
1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

Sample Name: Method Blank      Instrument ID: R-MS-56  
Lab Code: RQ1407012-01      File ID: I:\ACQUDATA\5975E\data\062614\AG067.D\  
Analytical Method: 522  
Prep Method: Method

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1407012-02	I:\ACQUDATA\5975E\data\062614\AG068.D	6/26/14 13:04
Duplicate Lab Control Sample	RQ1407012-03	I:\ACQUDATA\5975E\data\062614\AG069.D	6/26/14 13:22
Lab Control Sample	RQ1407012-04	I:\ACQUDATA\5975E\data\062614\AG070.D	6/26/14 13:40
MW-95	R1404628-001	I:\ACQUDATA\5975E\data\062614\AG073.D	6/26/14 14:35

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.610

Service Request: R1404628  
 Date Analyzed: 6/26/14 08:21

**Tune Summary**  
**1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring**

File ID: I:\ACQUDATA\5975E\data\062614\AG054.D\  
 Instrument ID: R-MS-56

Analytical Method: 522  
 Analysis Lot: 399233

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
173	174	0	2	0.97	496	Pass
174	95	50	120	77.33	51117	Pass
175	174	5	9	6.93	3544	Pass
176	174	95	101	98.04	50117	Pass
177	176	5	9	7.65	3833	Pass
50	95	15	40	15.95	10545	Pass
75	95	30	60	44.06	29125	Pass
95	95	100	100	100.00	66101	Pass
96	95	5	9	6.39	4224	Pass

Sample Name	Lab Code	File ID	Date Analyzed	Q
STD 1	2 ppb STD	I:\ACQUDATA\5975E\data\062614\AG057.D\	6/26/14 09:36	
STD 2	10 ppb STD	I:\ACQUDATA\5975E\data\062614\AG058.D\	6/26/14 09:55	
STD 3	20 ppb STD	I:\ACQUDATA\5975E\data\062614\AG059.D\	6/26/14 10:15	
STD 4	100ppb STD	I:\ACQUDATA\5975E\data\062614\AG060.D\	6/26/14 10:35	
STD 5	200 ppb STD	I:\ACQUDATA\5975E\data\062614\AG061.D\	6/26/14 10:55	
STD 6	500 ppb STD	I:\ACQUDATA\5975E\data\062614\AG062.D\	6/26/14 11:14	
STD 7	1000 ppb STD	I:\ACQUDATA\5975E\data\062614\AG063.D\	6/26/14 11:32	
STD 8	5000 ppb STD	I:\ACQUDATA\5975E\data\062614\AG064.D\	6/26/14 11:50	
Continuing Calibration Verification	RQ1407315-02	I:\ACQUDATA\5975E\data\062614\AG066.D\	6/26/14 12:27	
Method Blank	RQ1407012-01	I:\ACQUDATA\5975E\data\062614\AG067.D\	6/26/14 12:45	
Lab Control Sample	RQ1407012-02	I:\ACQUDATA\5975E\data\062614\AG068.D\	6/26/14 13:04	
Duplicate Lab Control Sample	RQ1407012-03	I:\ACQUDATA\5975E\data\062614\AG069.D\	6/26/14 13:22	
Lab Control Sample	RQ1407012-04	I:\ACQUDATA\5975E\data\062614\AG070.D\	6/26/14 13:40	
MW-95	R1404628-001	I:\ACQUDATA\5975E\data\062614\AG073.D\	6/26/14 14:35	
Continuing Cal. VerificationCCVA	RQ1407315-03	I:\ACQUDATA\5975E\data\062614\AG077.D\	6/26/14 15:49	

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.610

Service Request: R1404628  
 Date Analyzed: 6/26/14 12:27

**Internal Standard Area and RT Summary**  
**1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring**

File ID: I:\ACQUADATA\5975E\data\062614\AG066.D\  
 Instrument ID: R-MS-56  
 Analytical Method: 522

Lab Code: RQ1407315-02  
 Analysis Lot: 399233  
 Signal ID:

	Tetrahydrofuran-d8	
	Area	RT
Results ==>	88,717	2.81
Upper Limit ==>	115,332	3.31
Lower Limit ==>	62,102	2.31
ICAL Result ==>	89,136	2.81

**Associated Analyses**

		Area	RT
Method Blank	RQ1407012-01	90,175	2.81
Lab Control Sample	RQ1407012-02	97,435	2.82
Duplicate Lab Control Sample	RQ1407012-03	104,566	2.82
Lab Control Sample	RQ1407012-04	100,237	2.81
MW-95	R1404628-001	97,530	2.82
Continuing Cal. Verification	RQ1407315-03	96,435	2.83

Results flagged with an asterisk (\*) indicate values outside control criteria.



# PERCHLORATE SAMPLE DATA

**ALS Environmental - Rochester, NY**  
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Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.610  
 Sample Matrix: Water

Service Request: R1404628  
 Date Collected: 6/17/14 1203  
 Date Received: 6/18/14  
 Date Extracted: 6/25/14  
 Date Analyzed: 6/26/14 14:35

Sample Name: MW-95  
 Lab Code: R1404628-001

Units: µg/L  
 Basis: As Received

1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

Analytical Method: 522  
 Prep Method: Method  
 Data File Name: I:\ACQUDATA\5975E\data\062614\AG073.D\

Analysis Lot: 399233  
 Extraction Lot: 211375  
 Instrument Name: R-MS-56  
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
123-91-1	1,4-Dioxane	0.0404		0.0400	0.0200	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	91	70-130	6/26/14 14:35	

Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG073.D  
 Acq On : 26 Jun 2014 2:35 pm  
 Operator : J.Misiurewicz  
 Sample : R1404628-001|1.0  
 Misc : 06/25/14 522  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 26 14:55:00 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 12:13:22 2014  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	2.815	46	97530	500.00	PPB	0.00
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	3.860	96	21291	91.04	PPB	0.02
Spiked Amount	100.000	Range	70 - 130	Recovery	=	91.04%
Target Compounds						
2) 1,4-Dioxane	3.938	88	412	2.02	PPB	Qvalue 93
-----						

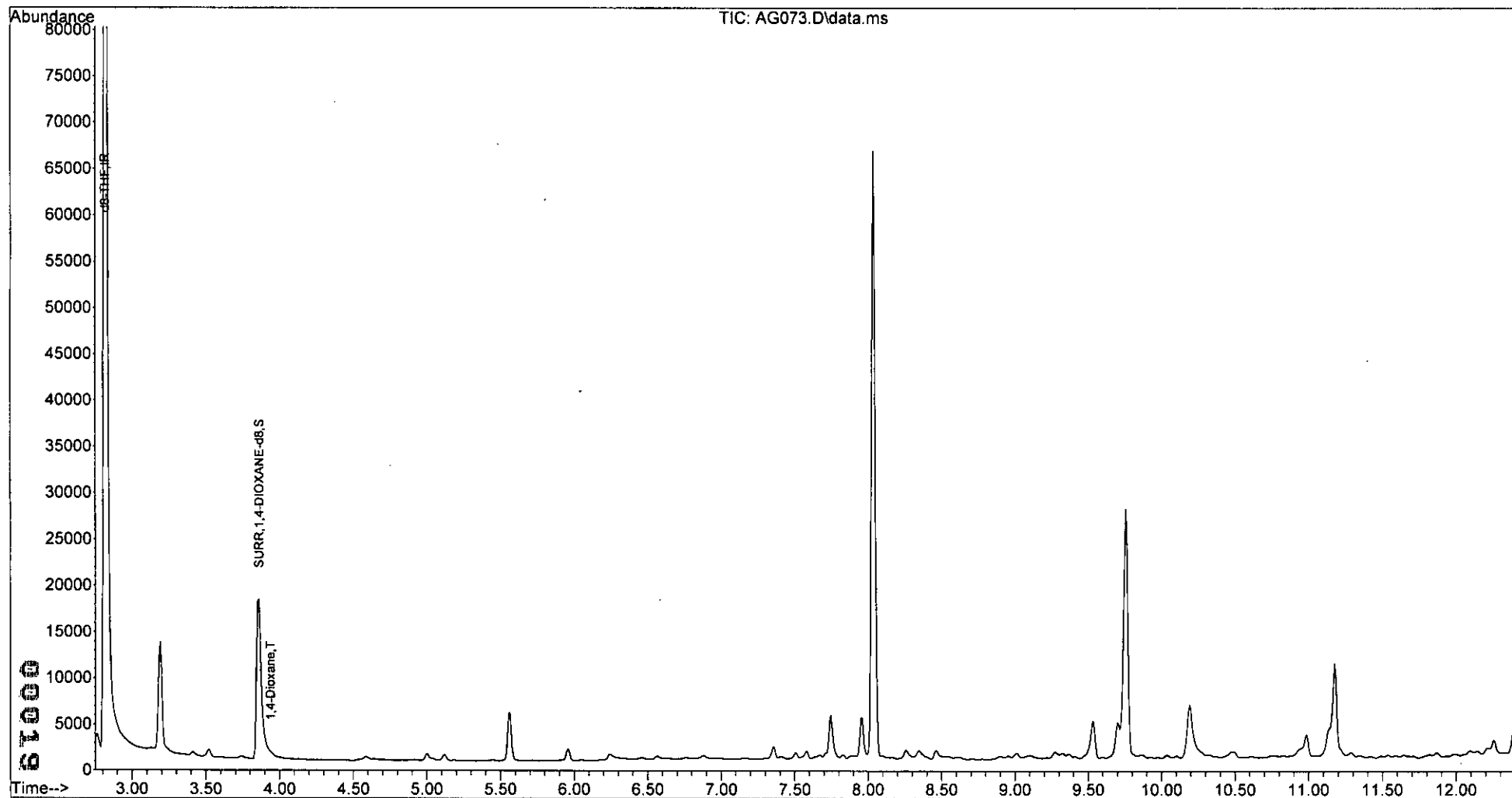
*OK  
GHW*

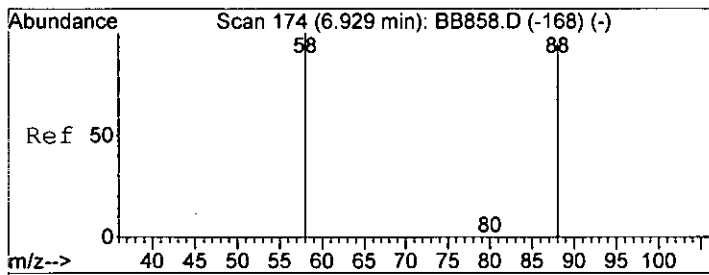
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\5975E\data\062614\  
Data File : AG073.D  
Acq On : 26 Jun 2014 2:35 pm  
Operator : J.Misiurewicz  
Sample : R1404628-001|1.0  
Misc : 06/25/14 522  
ALS Vial : 18 Sample Multiplier: 1

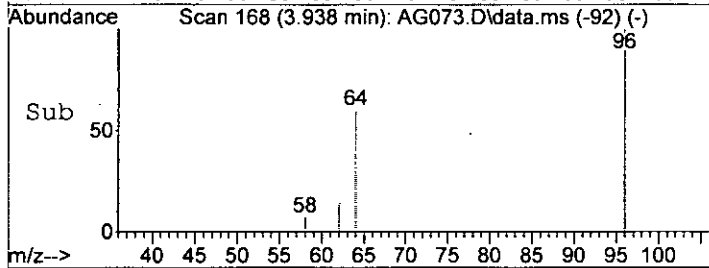
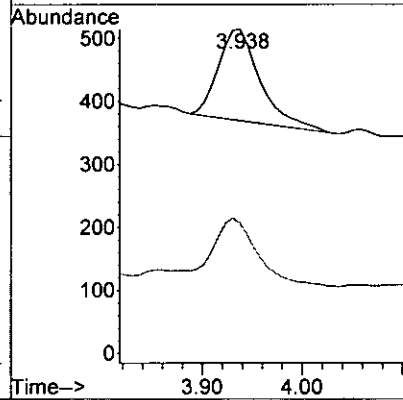
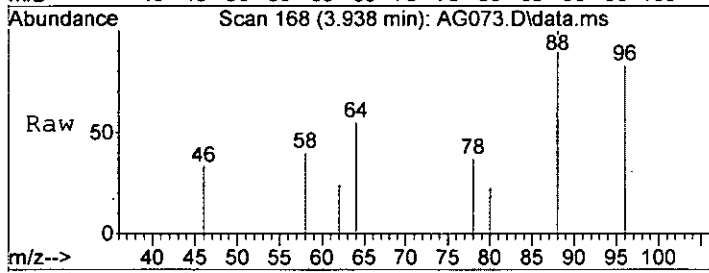
Quant Time: Jun 26 14:55:00 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Thu Jun 26 12:13:22 2014  
Response via : Initial Calibration





#2  
 1,4-Dioxane  
 Concen: 2.02 PPB  
 RT: 3.938 min Scan# 168  
 Delta R.T. 0.040 min  
 Lab File: AG073.D  
 Acq: 26 Jun 2014 2:35 pm

Tgt Ion	Resp	Lower	Upper
88	100		
58	58.9	44.6	84.6





# PERCHLORATE STANDARDS DATA

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Method Path : I:\ACQUDATA\5975E\METHODS\  
 Method File : SDIOX062614.M  
 Title : 8270 BNA ANALYSIS  
 Last Update : Thu Jun 26 12:13:22 2014  
 Response Via : Initial Calibration

Calibration Files

2 =AG057.D 10 =AG058.D 20 =AG059.D 100 =AG060.D 200 =AG061.D 500 =AG062.D 1000=AG063.D 5000=AG064.D

Compound	2	10	20	100	200	500	1000	5000	Avg	%RSD
-----										
1) IR d8-THF	-----ISTD-----									
2) T 1,4-Dioxane	1.064	1.230	1.303	1.415	1.390	1.385	1.519	1.599	1.363	12.22
3) S SURR,1,4-DIOXA...	1.007	1.144	1.128	1.225	1.196	1.204	1.304	1.360	1.196	9.07

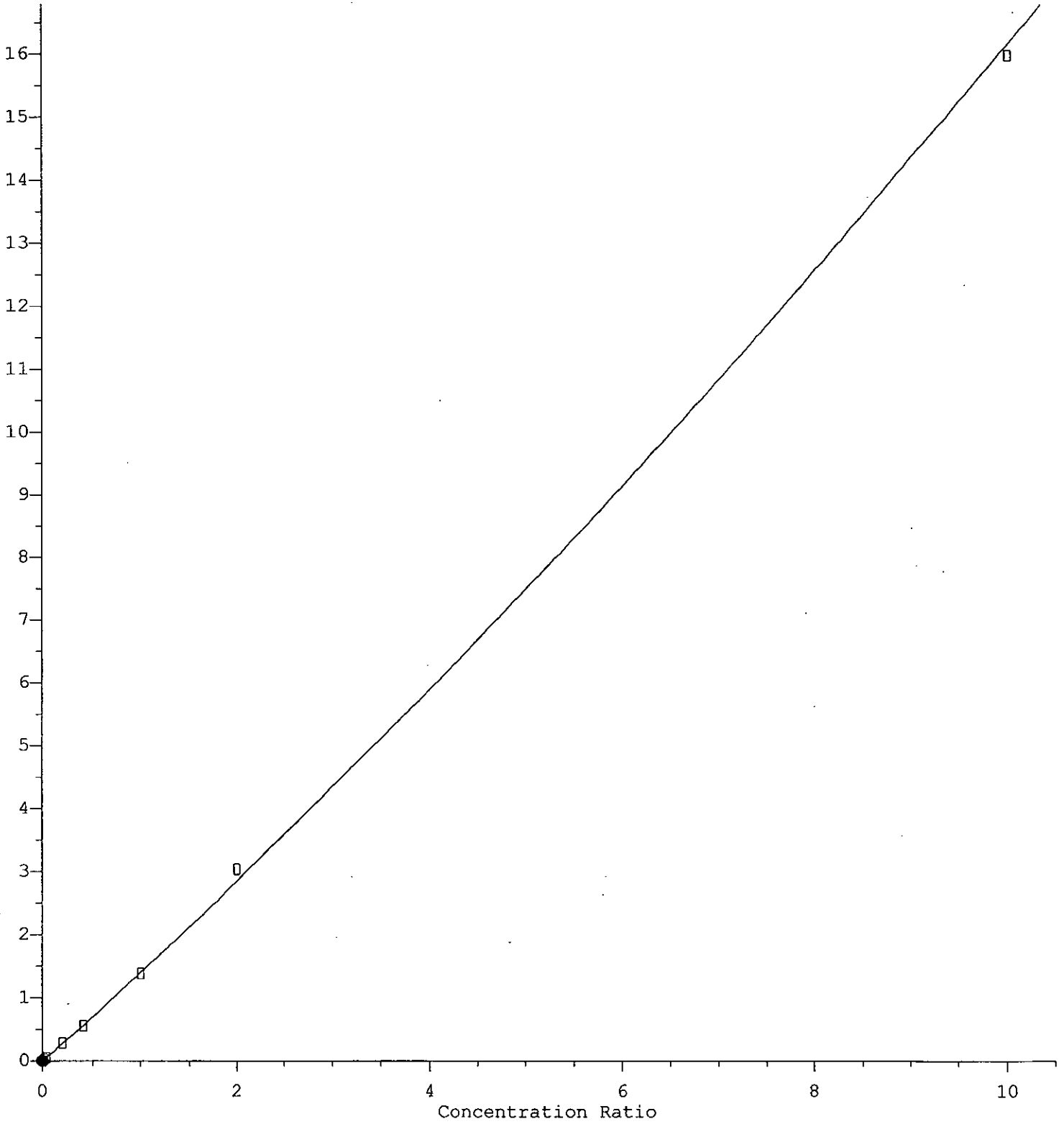
*DM*  
*6/24/14*

(#) = Out of Range

000000

1,4-Dioxane

Response Ratio



*Handwritten:* 074  
6/24/14

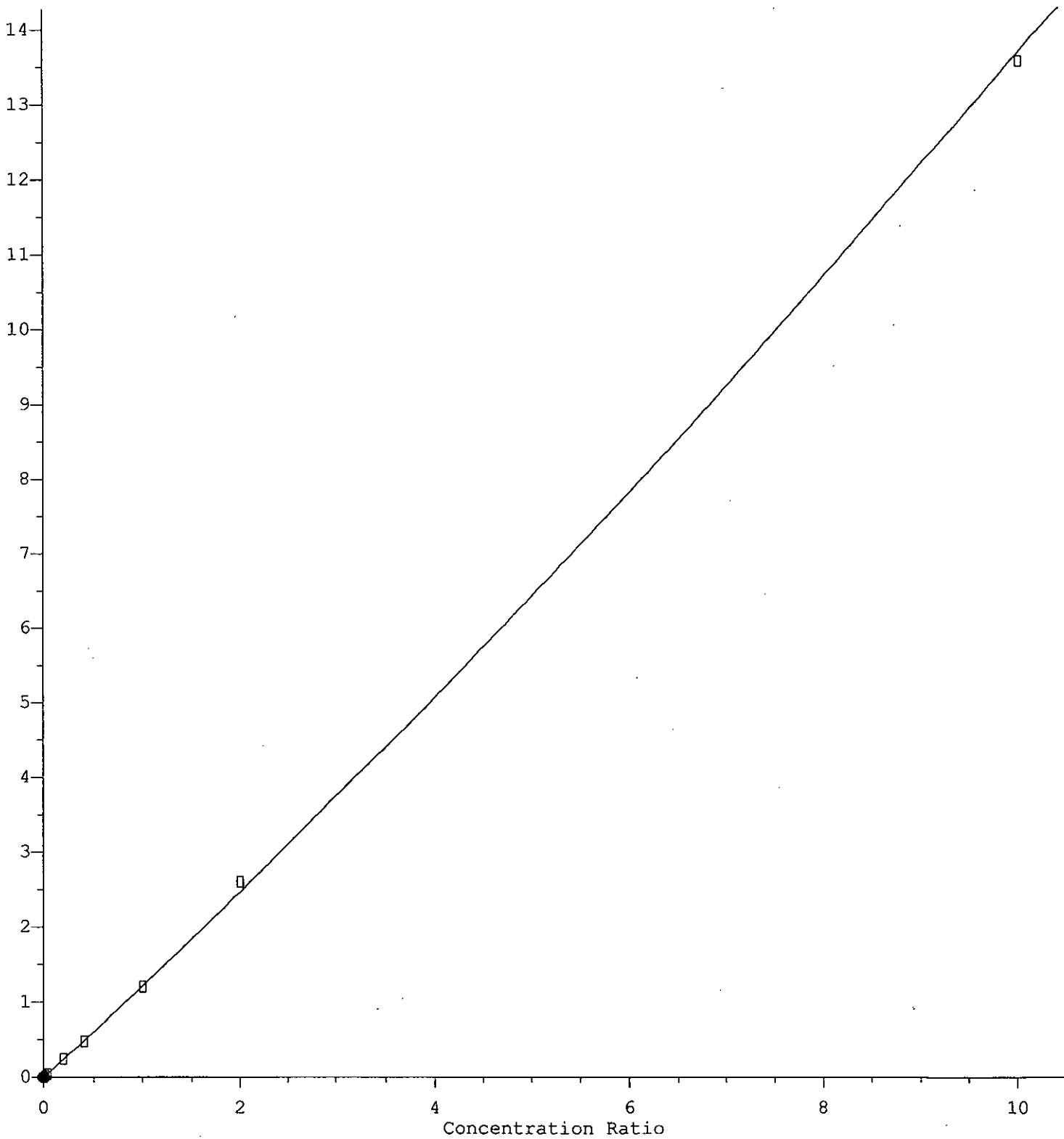
R = 2.39e-002 A\*A + 1.38e+000 A - 1.33e-003  
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)  
Method Name: I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
Calibration Table Last Updated: Thu Jun 26 12:13:22 2014

00023

Lab Code	Type	Standard Amount	Calculated Conc	Difference
RC1400055-01	ICAL	2.000	2.0133	0.67
RC1400055-02	ICAL	10.000	9.8653	-1.35
RC1400055-03	ICAL	20.000	19.126	-4.37
RC1400055-04	ICAL	100.000	102.07	2.07
RC1400055-05	ICAL	200.000	198.53	-0.74
RC1400055-06	ICAL	500.000	495.04	-0.99
RC1400055-07	ICAL	1000.000	1054.7	5.47
RC1400055-08	ICAL	5000.000	4959.3	-0.81

00024

Response Ratio



*Handwritten:* 2/11  
6/27/14

R = 1.72e-002 A\*A + 1.20e+000 A - 8.07e-004  
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)  
Method Name: I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
Calibration Table Last Updated: Thu Jun 26 12:13:22 2014

00025

Lab Code	Type	Standard Amount	Calculated Conc	Difference
RC1400055-01	ICAL	2.000	2.0285	1.43
RC1400055-02	ICAL	10.000	9.4074	-5.93
RC1400055-03	ICAL	20.000	19.382	-3.09
RC1400055-04	ICAL	100.000	102.78	2.78
RC1400055-05	ICAL	200.000	200.80	0.40
RC1400055-06	ICAL	500.000	494.70	-1.06
RC1400055-07	ICAL	1000.000	1063.3	6.33
RC1400055-08	ICAL	5000.000	4951.9	-0.96



Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG057.D  
 Acq On : 26 Jun 2014 9:36 am  
 Operator : J.Misiurewicz  
 Sample : STD 1  
 Misc : Initial Calibration 2 ppb STD  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 09:53:59 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon May 05 07:43:33 2014  
 Response via : Initial Calibration

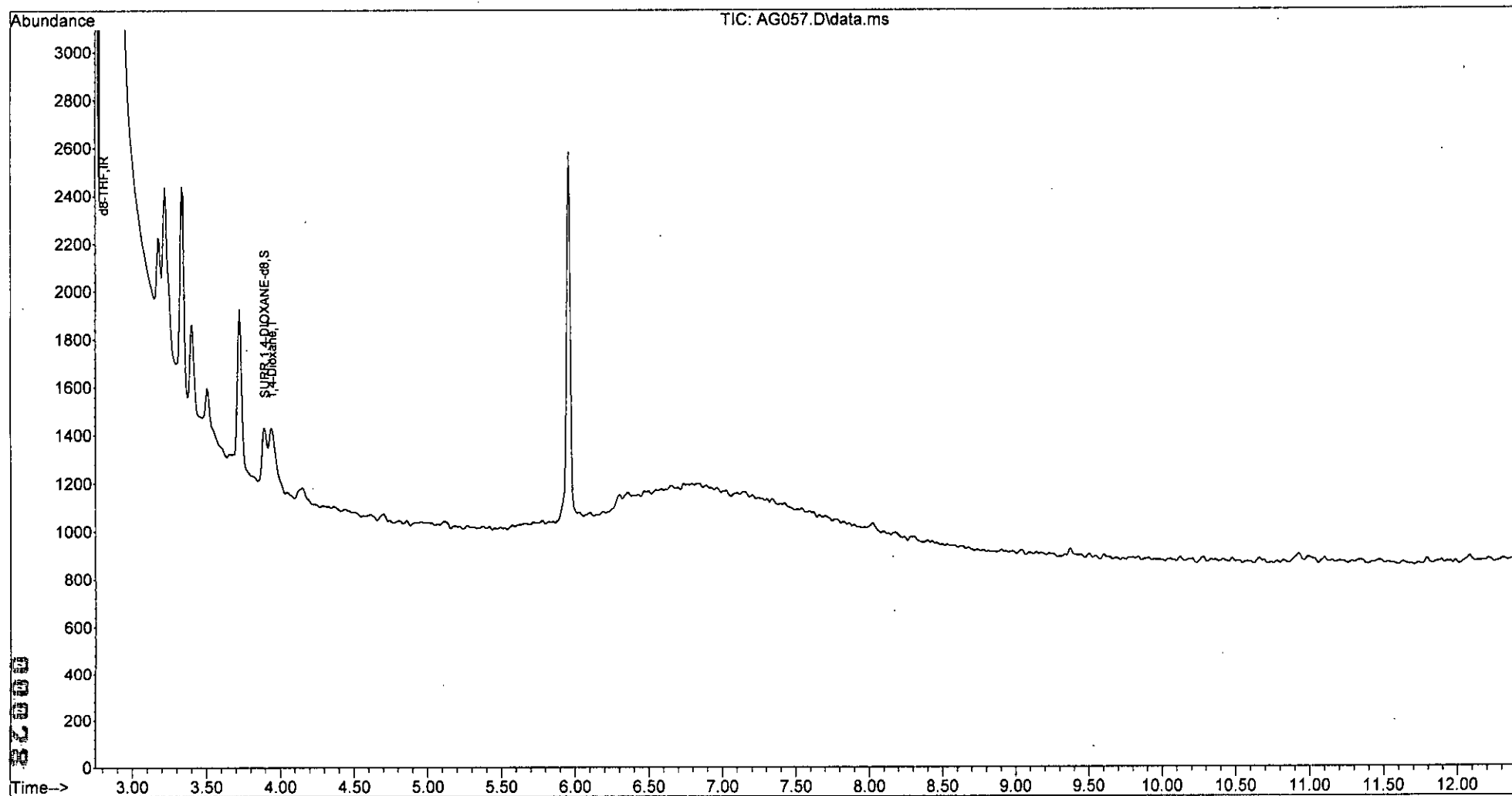
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	2.808	46	86429	500.00	PPB	-0.03
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	3.895	96	348	1.70	PPB	0.03
Spiked Amount	100.000	Range	70 - 130	Recovery	=	1.70%#
Target Compounds						
2) 1,4-Dioxane	3.944	88	368	1.84	PPB #	Qvalue 35
-----						

*DM*  
*4/26/14*

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\062614\  
Data File : AG057.D  
Acq On : 26 Jun 2014 9:36 am  
Operator : J.Misiurewicz  
Sample : STD 1  
Misc : Initial Calibration 2 ppb STD  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 09:53:59 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon May 05 07:43:33 2014  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5975E\data\062614\  
Data File : AG058.D  
Acq On : 26 Jun 2014 9:55 am  
Operator : J.Misiurewicz  
Sample : STD 2  
Misc : Initial Calibration 10 ppb STD  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 10:14:15 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon May 05 07:43:33 2014  
Response via : Initial Calibration

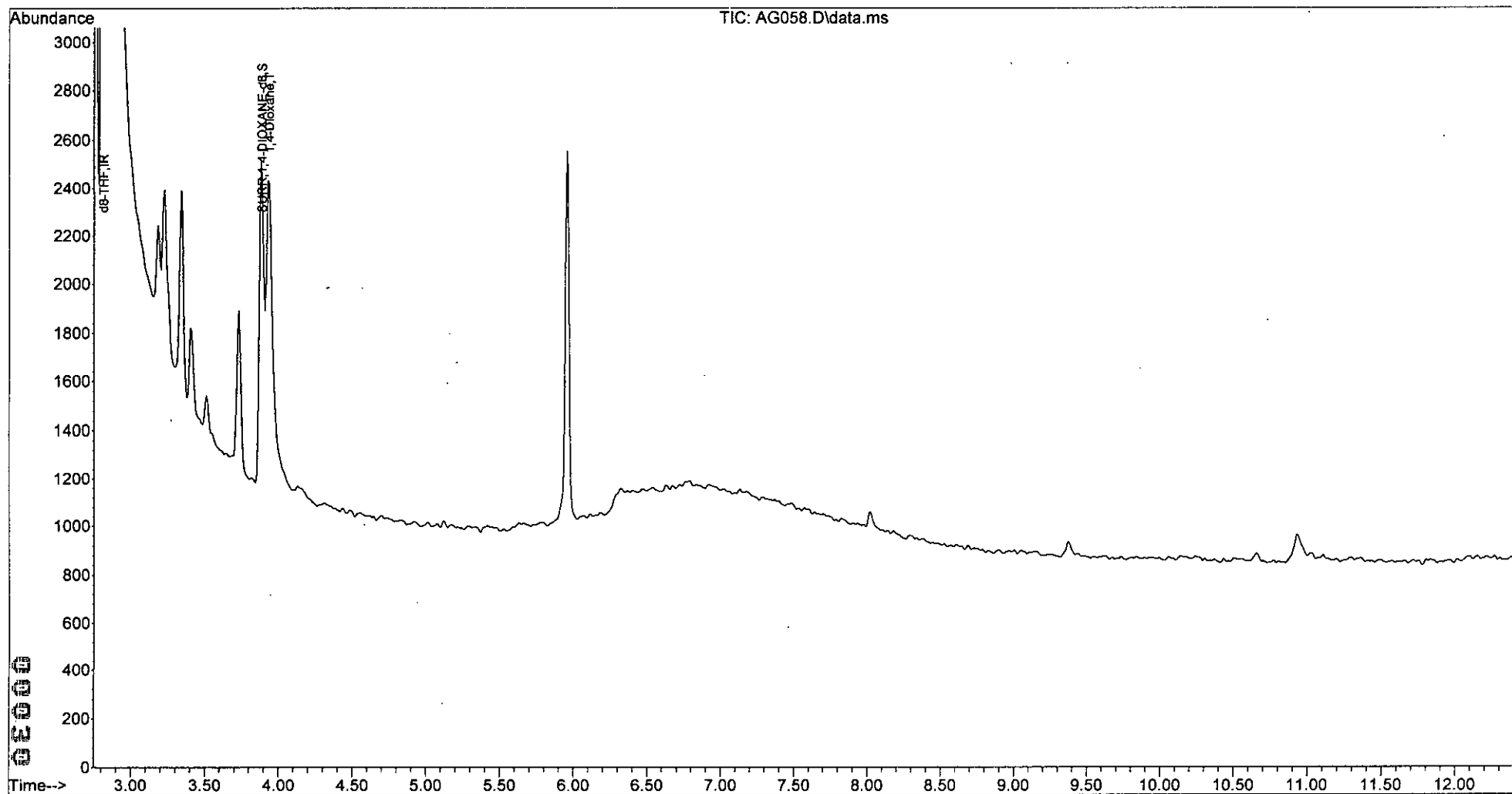
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	2.815	46	87190	500.00	PPB	-0.02
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	3.888	96	1995	11.15	PPB	0.02
Spiked Amount	100.000	Range	70 - 130	Recovery	=	11.15%#
Target Compounds						
2) 1,4-Dioxane	3.938	88	2145	10.49	PPB	Qvalue # 27
-----						

*AM*  
*6/26/14*

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG058.D  
 Acq On : 26 Jun 2014 9:55 am  
 Operator : J.Misiurewicz  
 Sample : STD 2  
 Misc : Initial Calibration 10 ppb STD  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 10:14:15 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon May 05 07:43:33 2014  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\5975E\data\062614\  
Data File : AG059.D  
Acq On : 26 Jun 2014 10:15 am  
Operator : J.Misiurewicz  
Sample : STD 3  
Misc : Initial Calibration 20 ppb STD  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 10:32:36 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon May 05 07:43:33 2014  
Response via : Initial Calibration

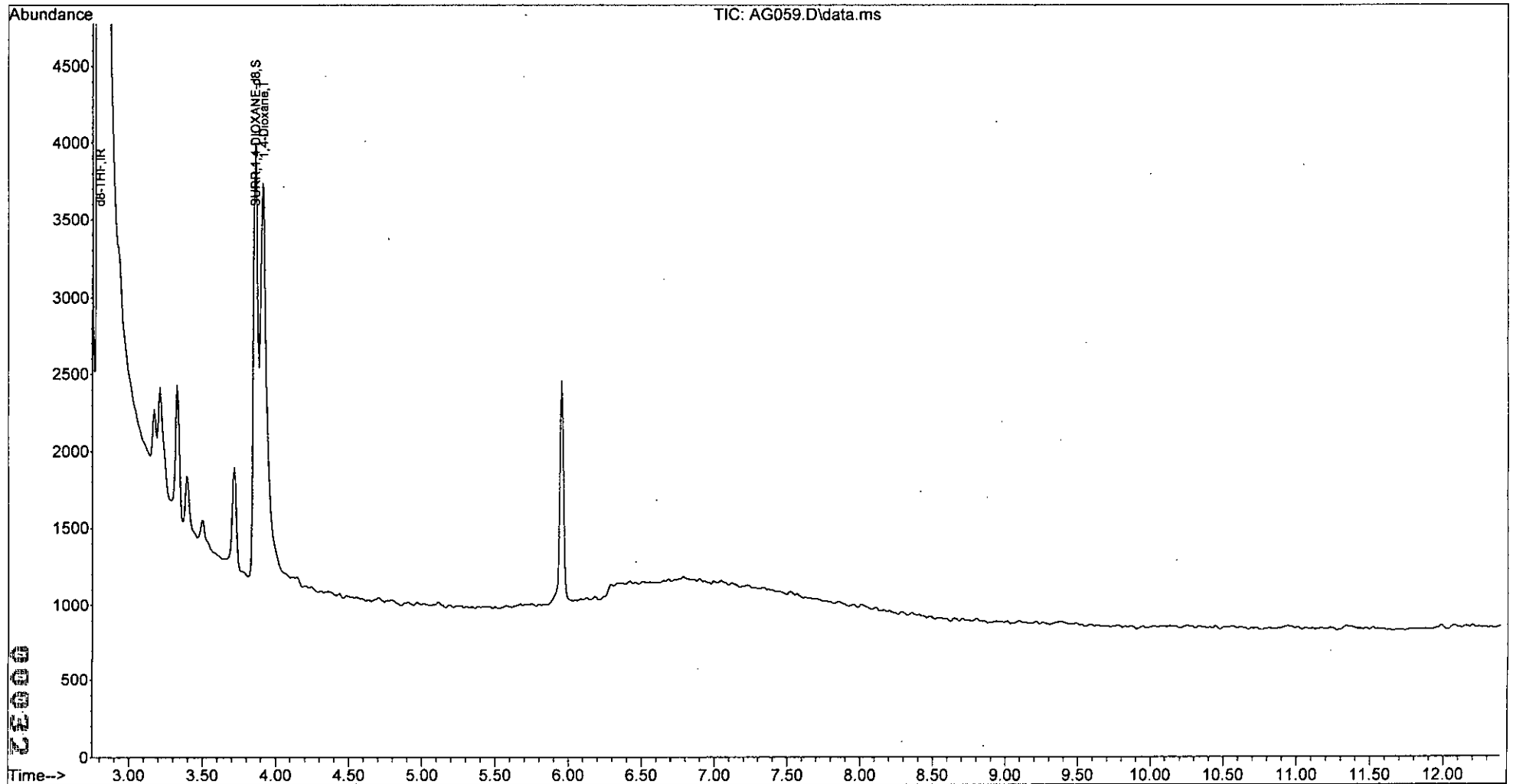
*OK*  
*6/26/14*

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	2.801	46	83137	500.00	PPB	-0.04
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	3.859	96	3752	22.30	PPB	0.00
Spiked Amount	100.000	Range	70 - 130	Recovery	=	22.30%#
Target Compounds						
2) 1,4-Dioxane	3.916	88	4333	22.19	PPB	Qvalue # 30
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG059.D  
 Acq On : 26 Jun 2014 10:15 am  
 Operator : J.Misiurewicz  
 Sample : STD 3  
 Misc : Initial Calibration 20 ppb STD  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 10:32:36 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon May 05 07:43:33 2014  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG060.D  
 Acq On : 26 Jun 2014 10:35 am  
 Operator : J.Misiurewicz  
 Sample : STD 4  
 Misc : Initial Calibration 100 ppb STD  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 11:48:28 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon May 05 07:43:33 2014  
 Response via : Initial Calibration

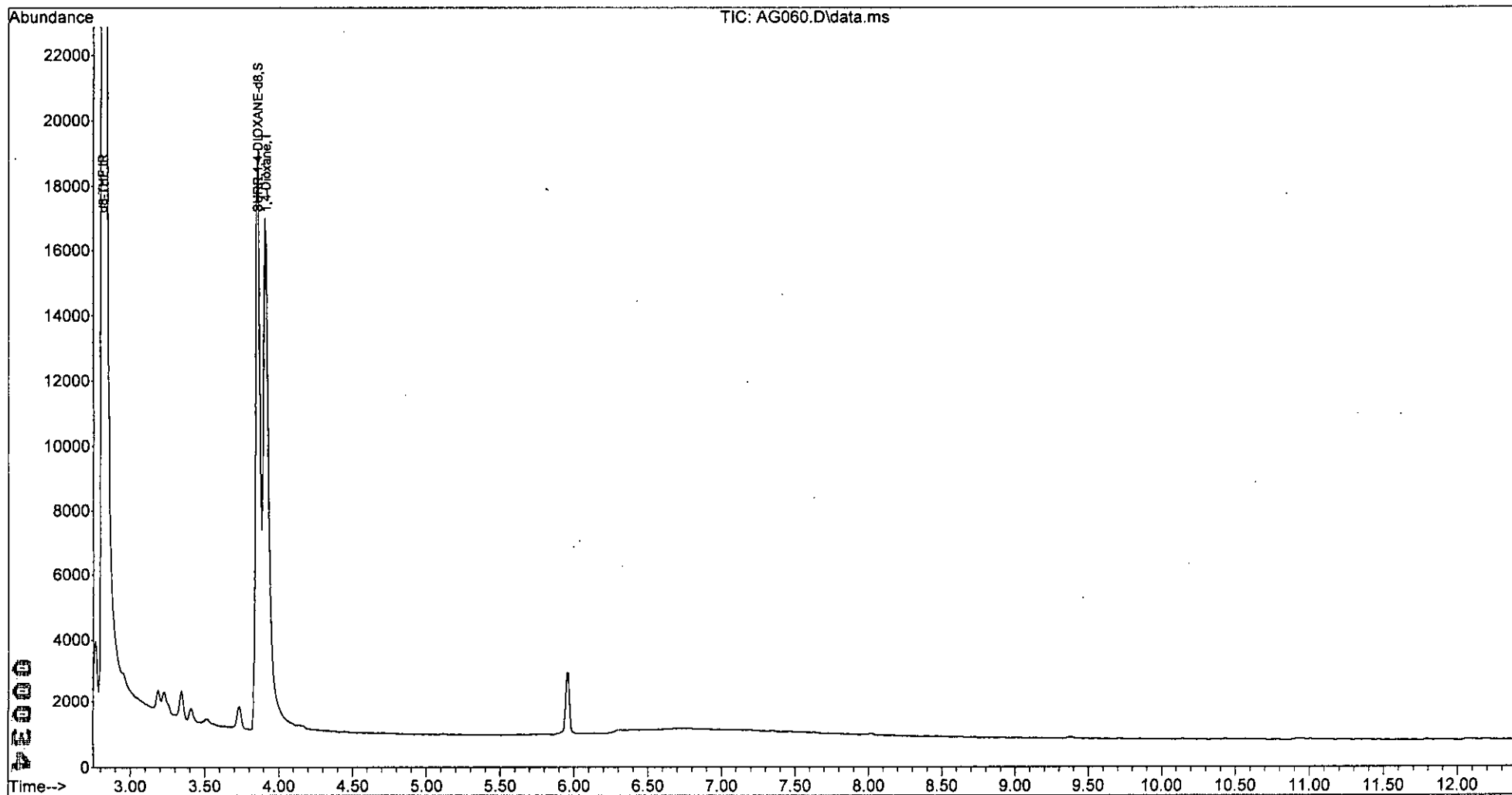
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	2.815	46	84812	500.00	PPB	-0.02
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	3.859	96	20772	122.38	PPB	0.00
Spiked Amount	100.000	Range	70 - 130	Recovery	=	122.38%
Target Compounds						
2) 1,4-Dioxane	3.916	88	23996	120.25	PPB	Qvalue # 31
-----						

*DM*  
*4/26/14*

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\062614\  
Data File : AG060.D  
Acq On : 26 Jun 2014 10:35 am  
Operator : J.Misiurewicz  
Sample : STD 4  
Misc : Initial Calibration 100 ppb STD  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 11:48:28 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon May 05 07:43:33 2014  
Response via : Initial Calibration





Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG061.D  
 Acq On : 26 Jun 2014 10:55 am  
 Operator : J.Misiurewicz  
 Sample : STD 5  
 Misc : Initial Calibration 200 ppb STD  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 11:48:37 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon May 05 07:43:33 2014  
 Response via : Initial Calibration

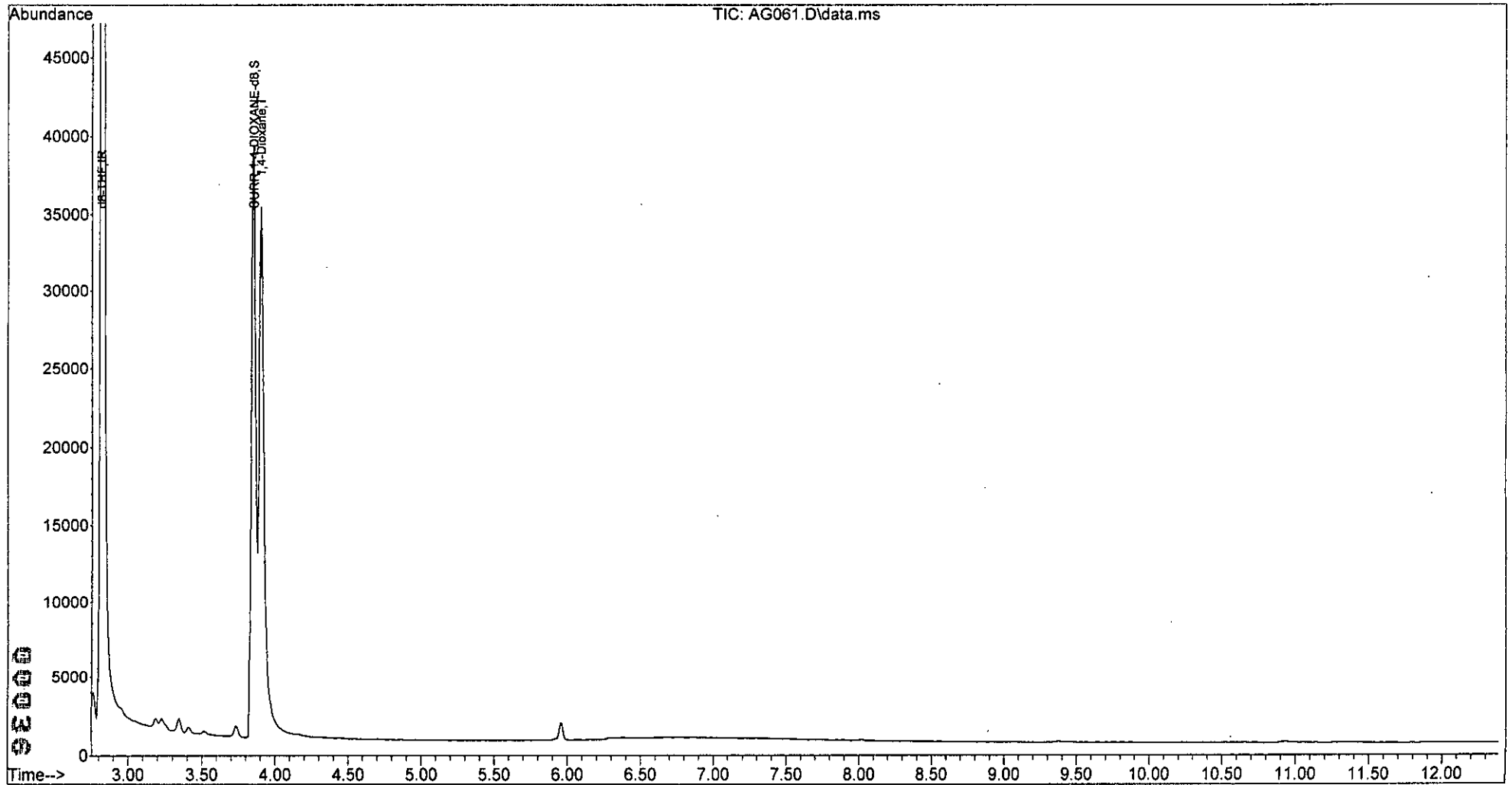
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	2.815	46	89136	500.00	PPB	-0.02
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	3.852	96	42648	239.24	PPB	-0.01
Spiked Amount	100.000	Range 70 - 130	Recovery	=	239.24%#	
Target Compounds						
2) 1,4-Dioxane	3.902	88	49552	236.05	PPB	Qvalue # 14
-----						

*M*  
6/26/14

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG061.D  
 Acq On : 26 Jun 2014 10:55 am  
 Operator : J.Misiurewicz  
 Sample : STD 5  
 Misc : Initial Calibration 200 ppb STD  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 11:48:37 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon May 05 07:43:33 2014  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG062.D  
 Acq On : 26 Jun 2014 11:14 am  
 Operator : J.Misiurewicz  
 Sample : STD 6  
 Misc : Initial Calibration 500 ppb STD  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 11:48:46 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon May 05 07:43:33 2014  
 Response via : Initial Calibration

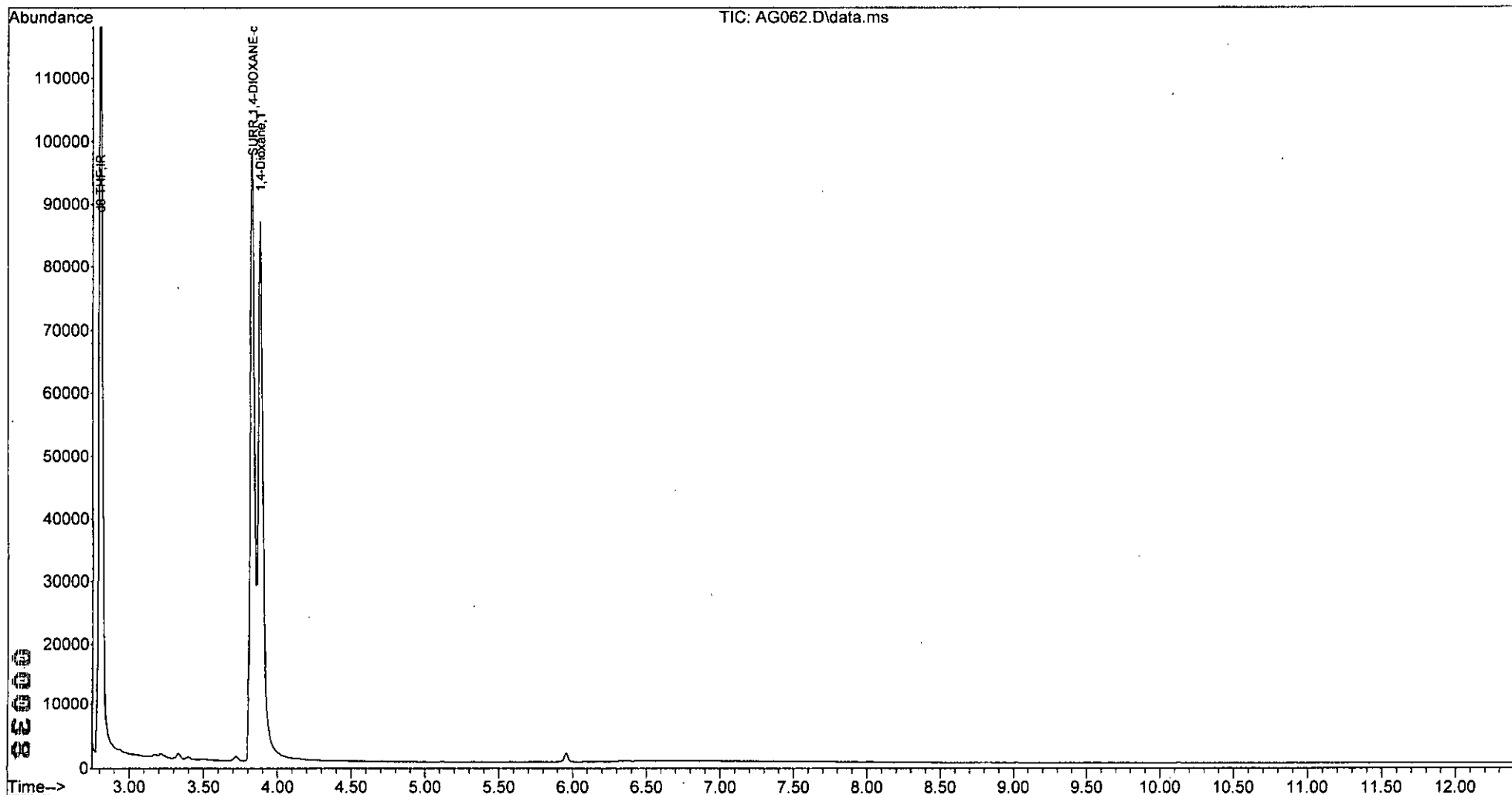
*M*  
*6/26/14*

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	2.801	46	86453	500.00	PPB	-0.04
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	3.831	96	104121	601.73	PPB	-0.04
Spiked Amount	100.000	Range	70 - 130	Recovery	=	601.73%#
Target Compounds						
2) 1,4-Dioxane	3.881	88	119775	586.78	PPB	Qvalue # 19
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\062614\  
Data File : AG062.D  
Acq On : 26 Jun 2014 11:14 am  
Operator : J.Misiurewicz  
Sample : STD 6  
Misc : Initial Calibration 500 ppb STD  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 11:48:46 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon May 05 07:43:33 2014  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG063.D  
 Acq On : 26 Jun 2014 11:32 am  
 Operator : J.Misiurewicz  
 Sample : STD 7  
 Misc : Initial Calibration 1000 ppb STD  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 11:48:58 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon May 05 07:43:33 2014  
 Response via : Initial Calibration

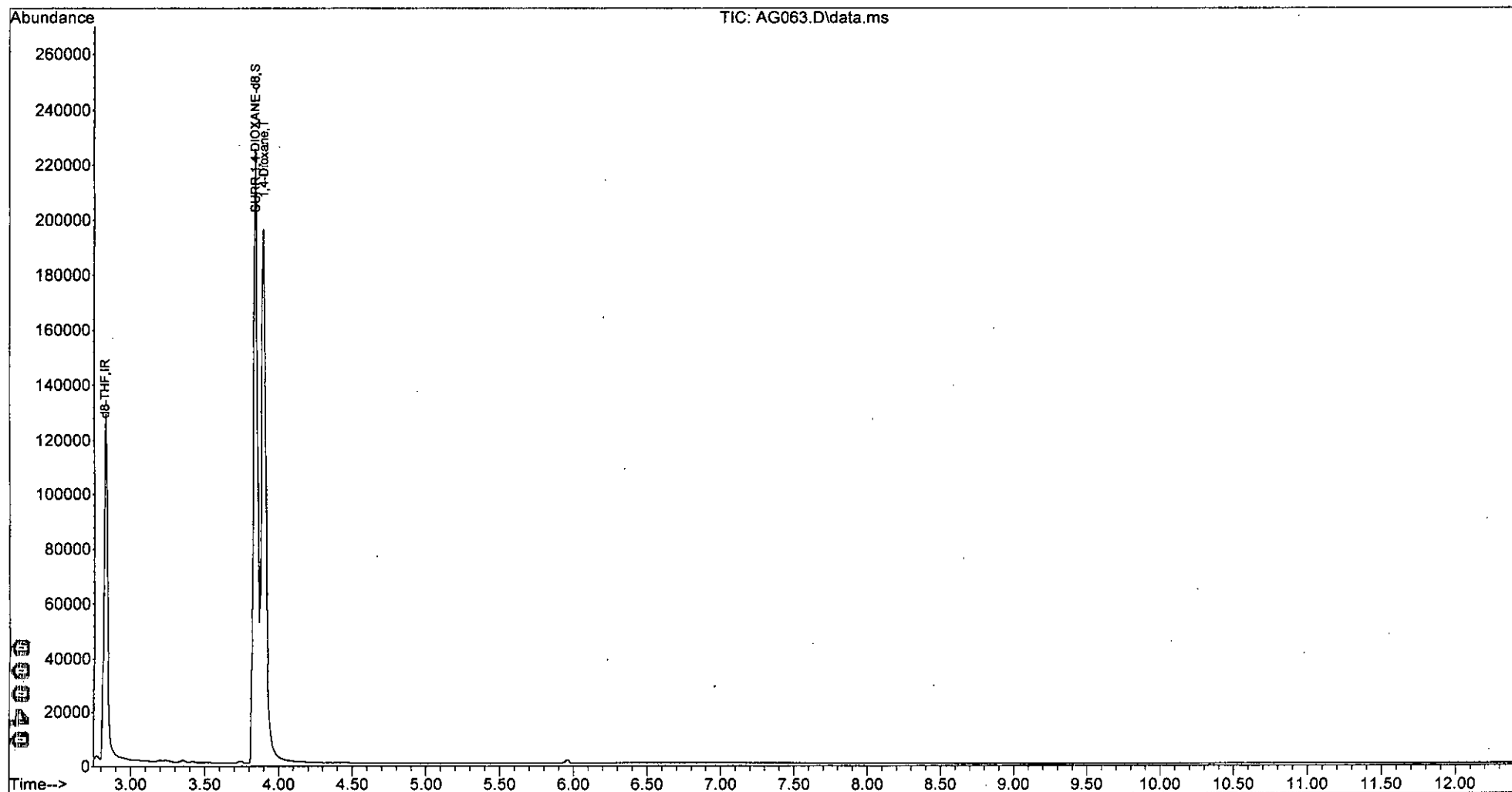
*My  
6/26/14*

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	2.822	46	85428	500.00	PPB	-0.02
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	3.838	96	222743	1299.09	PPB	-0.03
Spiked Amount	100.000	Range	70 - 130	Recovery	= 1299.09%#	
Target Compounds						
2) 1,4-Dioxane	3.895	88	259457	1280.11	PPB	Qvalue # 24
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG063.D  
 Acq On : 26 Jun 2014 11:32 am  
 Operator : J.Misiurewicz  
 Sample : STD 7  
 Misc : Initial Calibration 1000 ppb STD  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 11:48:58 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon May 05 07:43:33 2014  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG064.D  
 Acq On : 26 Jun 2014 11:50 am  
 Operator : J.Misiurewicz  
 Sample : STD 8  
 Misc : Initial Calibration 5000 ppb STD  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 12:12:04 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 11:49:41 2014  
 Response via : Initial Calibration

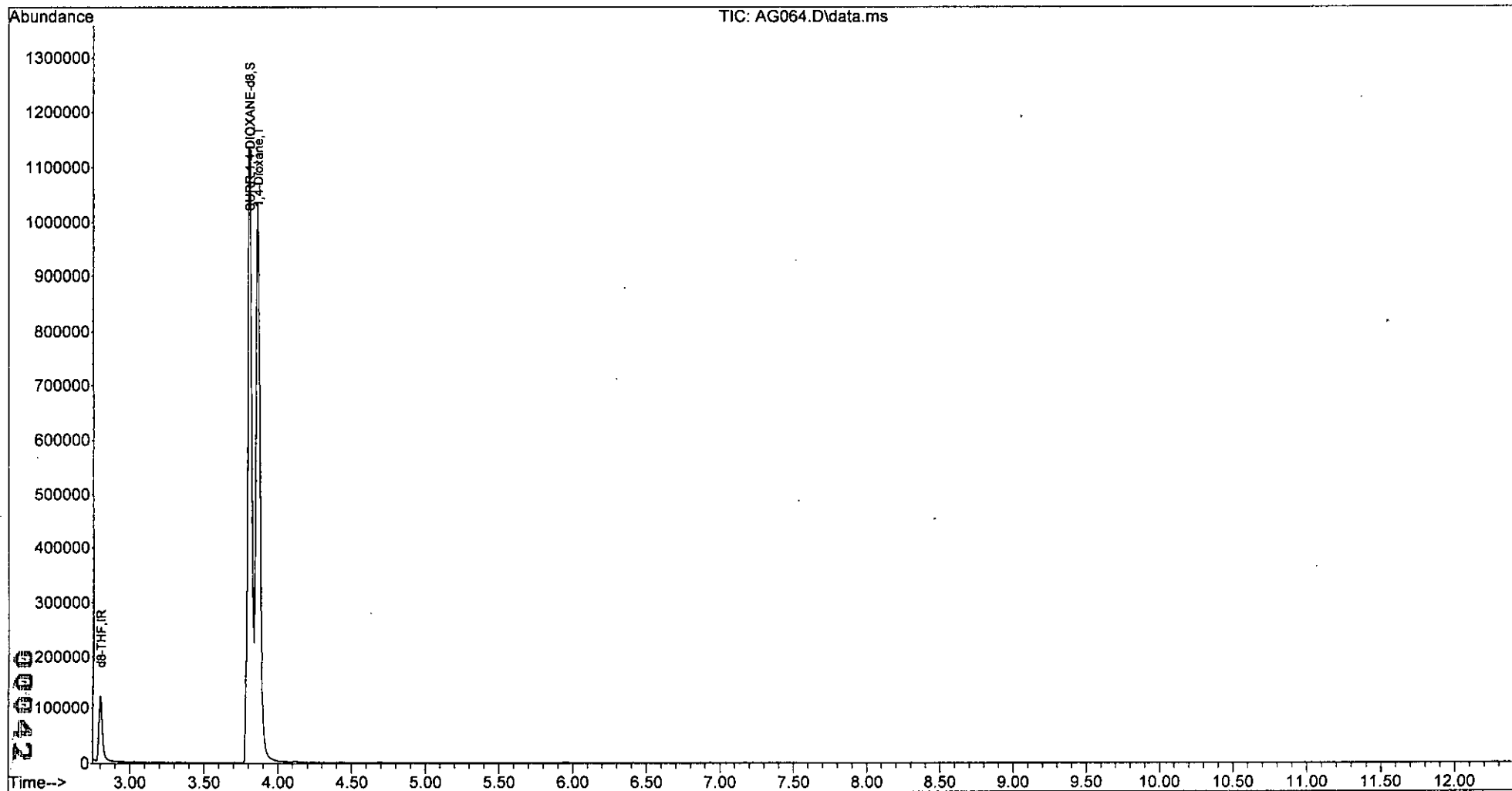
*DM*  
*6/26/14*

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) d8-THF	2.801	46	81736	500.00	PPB	-0.04
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	3.810	96	1111235	6620.45	PPB	-0.06
Spiked Amount	100.000	Range	70 - 130	Recovery	= 6620.45%#	
Target Compounds						
2) 1,4-Dioxane	3.866	88	1307078	6503.72	PPB	Qvalue # 36
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG064.D  
 Acq On : 26 Jun 2014 11:50 am  
 Operator : J.Misiurewicz  
 Sample : STD 8  
 Misc : Initial Calibration 5000 ppb STD  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 12:12:04 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 11:49:41 2014  
 Response via : Initial Calibration





Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG056.D  
 Acq On : 26 Jun 2014 9:16 am  
 Operator : J.Misiurewicz  
 Sample : BLK  
 Misc : Initial Calibration  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 26 14:17:28 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 12:13:22 2014  
 Response via : Initial Calibration

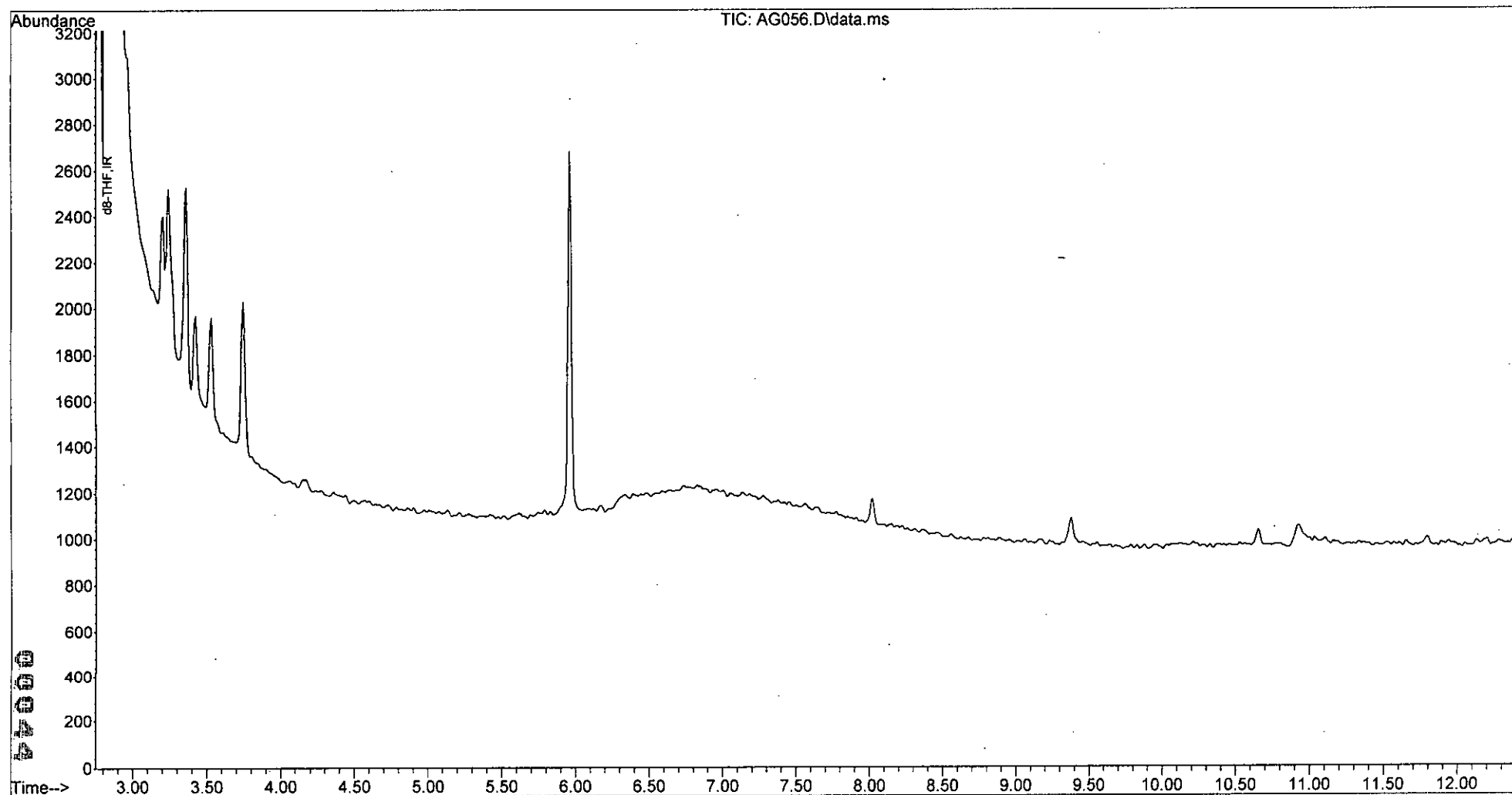
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	2.829	46	84521	500.00	PPB	0.02
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	0.000	96	0d	0.00	PPB	
Spiked Amount	100.000	Range	70 - 130	Recovery	=	0.00%#
Target Compounds						
2) 1,4-Dioxane	0.000		0	N.D.		Qvalue
-----						

*Am*  
*6/26/14*

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\062614\  
Data File : AG056.D  
Acq On : 26 Jun 2014 9:16 am  
Operator : J.Misiurewicz  
Sample : BLK  
Misc : Initial Calibration  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 26 14:17:28 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Thu Jun 26 12:13:22 2014  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG065.D  
 Acq On : 26 Jun 2014 12:08 pm  
 Operator : J.Misiurewicz  
 Sample : ICV  
 Misc : 200 ppb STD  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 26 12:44:16 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 12:13:22 2014  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		Amount	Calc.	%Dev	Area%	Dev(min)
1	IR d8-THF	500.000	500.000	0.0	107	0.03
2	T 1,4-Dioxane	200.000	164.215	17.9	88	0.03
3	S SURR,1,4-DIOXANE-d8	200.000	178.851	10.6	97	0.04

*DM*  
*6/26/14*

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG065.D  
 Acq On : 26 Jun 2014 12:08 pm  
 Operator : J.Misiurewicz  
 Sample : ICV  
 Misc : 200 ppb STD  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 26 12:44:16 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 12:13:22 2014  
 Response via : Initial Calibration

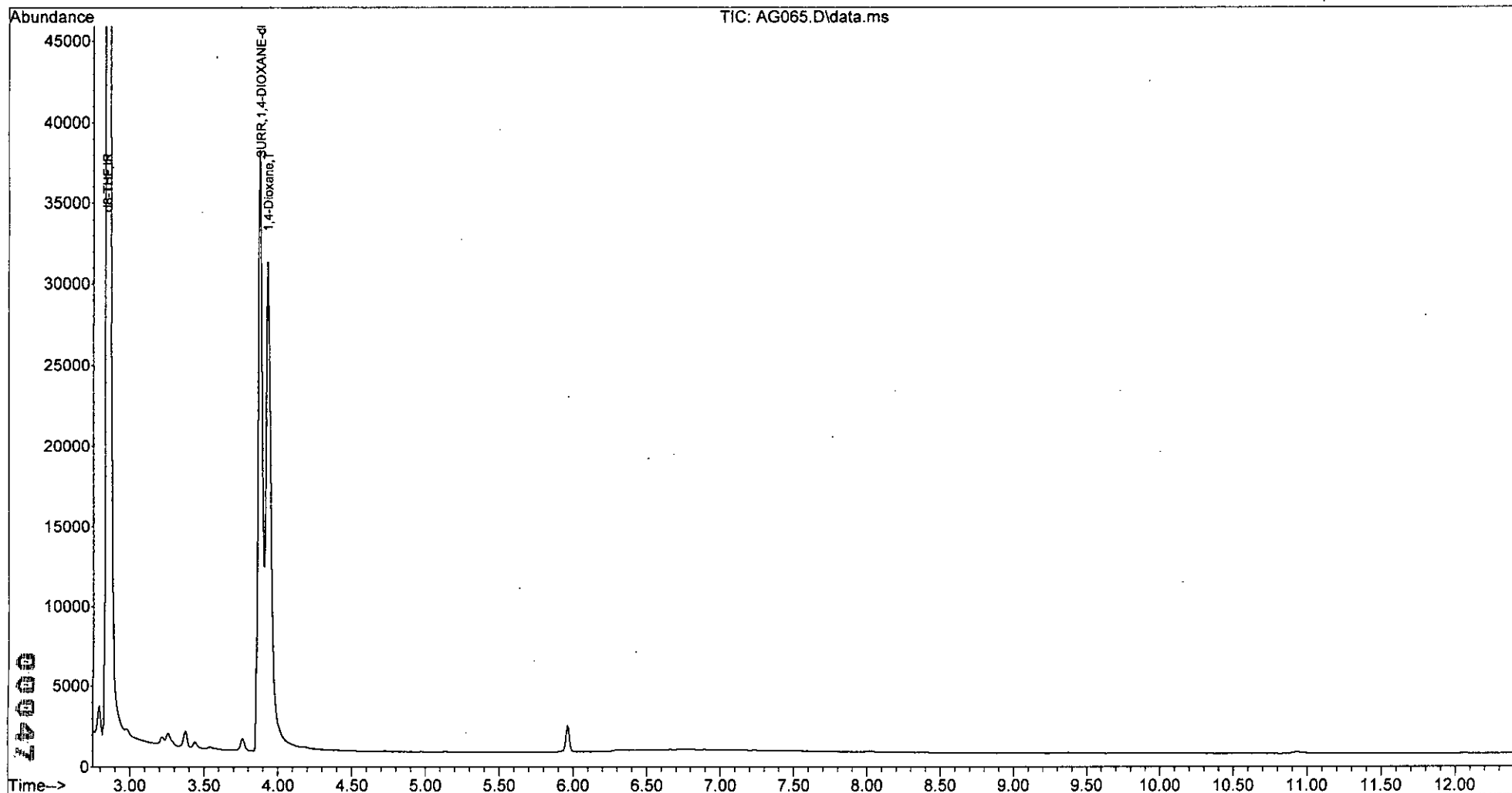
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	2.843	46	95787	500.00	PPB	0.03
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	3.881	96	41257	178.85	PPB	0.04
Spiked Amount	100.000	Range	70 - 130	Recovery	=	178.85%#
Target Compounds						
2) 1,4-Dioxane	3.930	88	43469	164.21	PPB	Qvalue 96
-----						

*M*  
*6/26/14*

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG065.D  
 Acq On : 26 Jun 2014 12:08 pm  
 Operator : J.Misiurewicz  
 Sample : ICV  
 Misc : 200 ppb STD  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 26 12:44:16 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 12:13:22 2014  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\5975E\data\062614\  
Data File : AG066.D  
Acq On : 26 Jun 2014 12:27 pm  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 2 ppb STD 8270D/522  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 14:22:45 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Thu Jun 26 12:13:22 2014  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	IR d8-THF	500.000	500.000	0.0	103	0.00
2	T 1,4-Dioxane	2.000	2.128	-6.4	109	0.05
3	S SURR,1,4-DIOXANE-d8	2.000	2.148	-7.4	111	0.05

DM  
6/26/14

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG066.D  
 Acq On : 26 Jun 2014 12:27 pm  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 2 ppb STD 8270D/522  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 14:22:45 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 12:13:22 2014  
 Response via : Initial Calibration

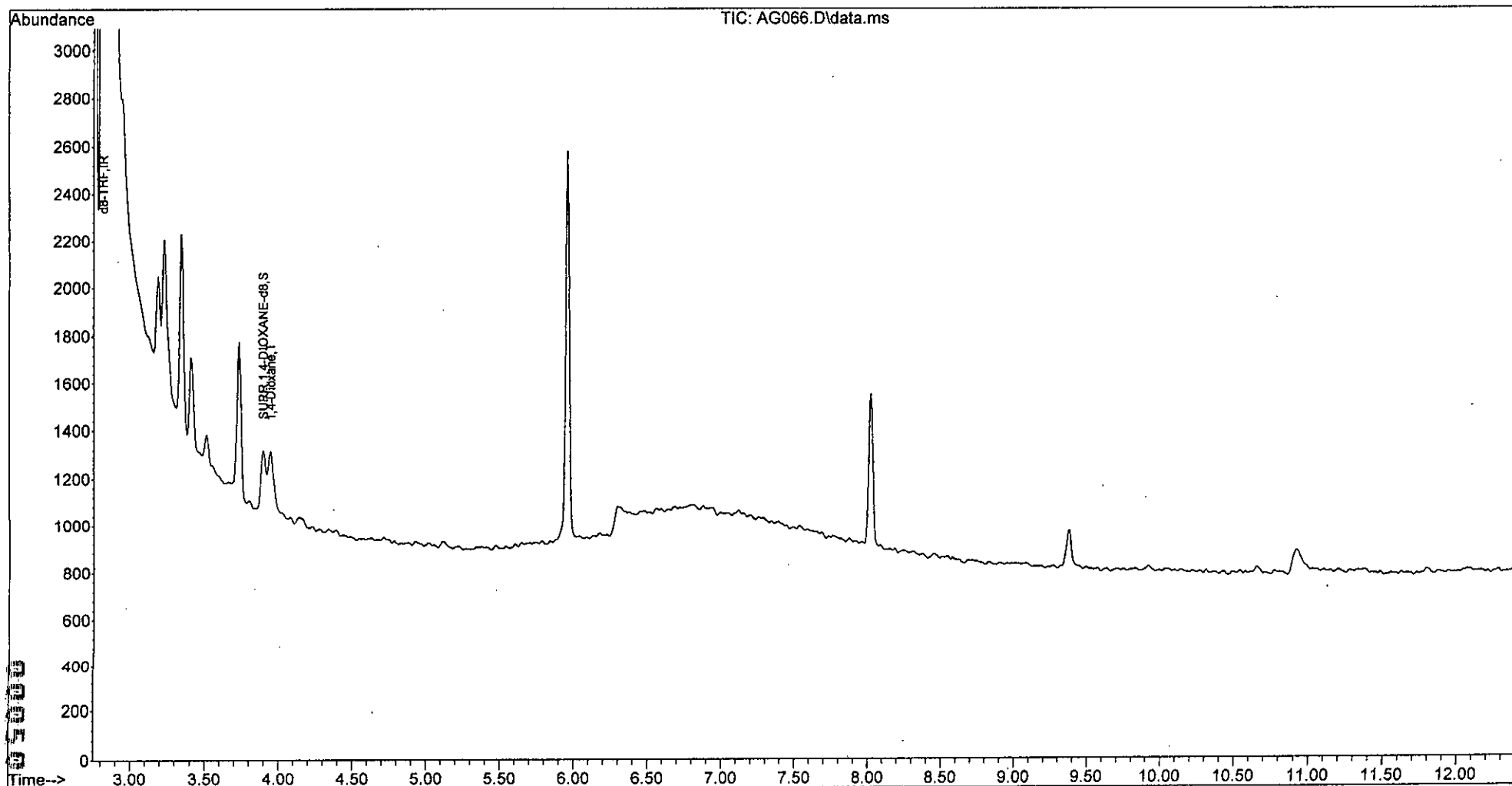
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	2.815	46	88717	500.00	PPB	0.00
System Monitoring Compounds						
3) SURR, 1,4-DIOXANE-d8	3.895	96	386m	2.15	PPB	0.05
Spiked Amount	100.000	Range	70 - 130	Recovery	=	2.15%#
Target Compounds						
2) 1,4-Dioxane	3.945	88	402m	2.13	PPB	Qvalue
-----						

*AM*  
*6/24/14*

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG066.D  
 Acq On : 26 Jun 2014 12:27 pm  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 2 ppb STD 8270D/522  
 ALS Vial : 11 Sample Multiplier: 1

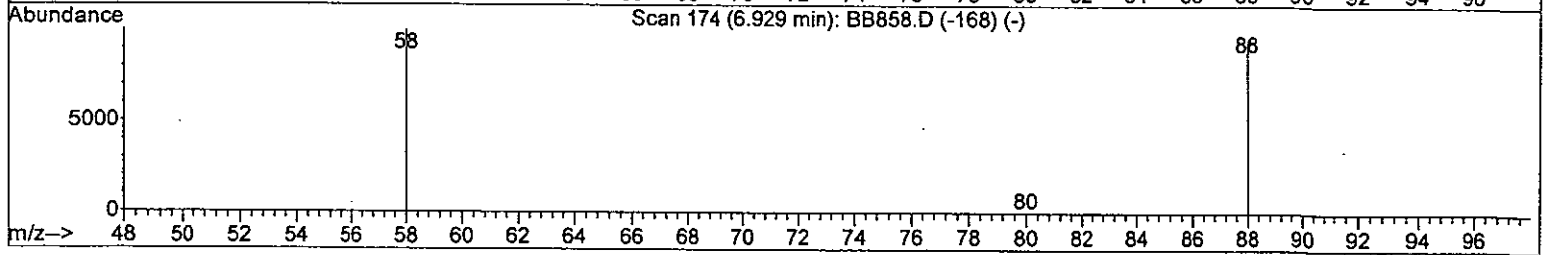
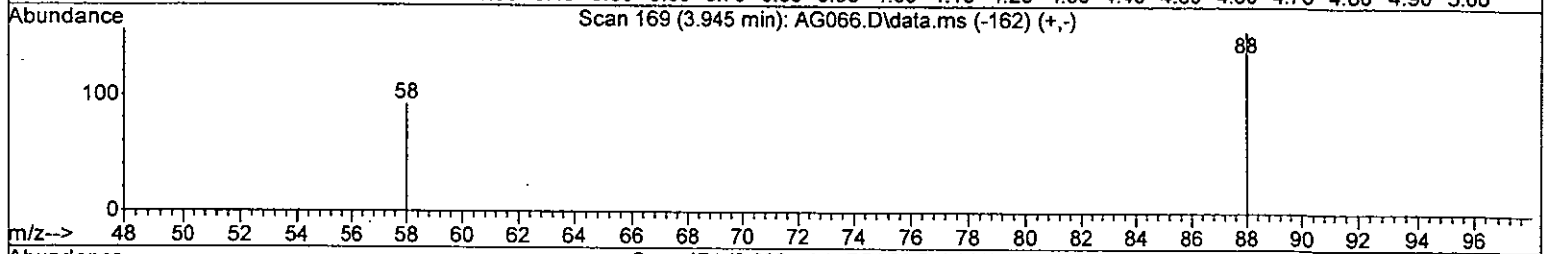
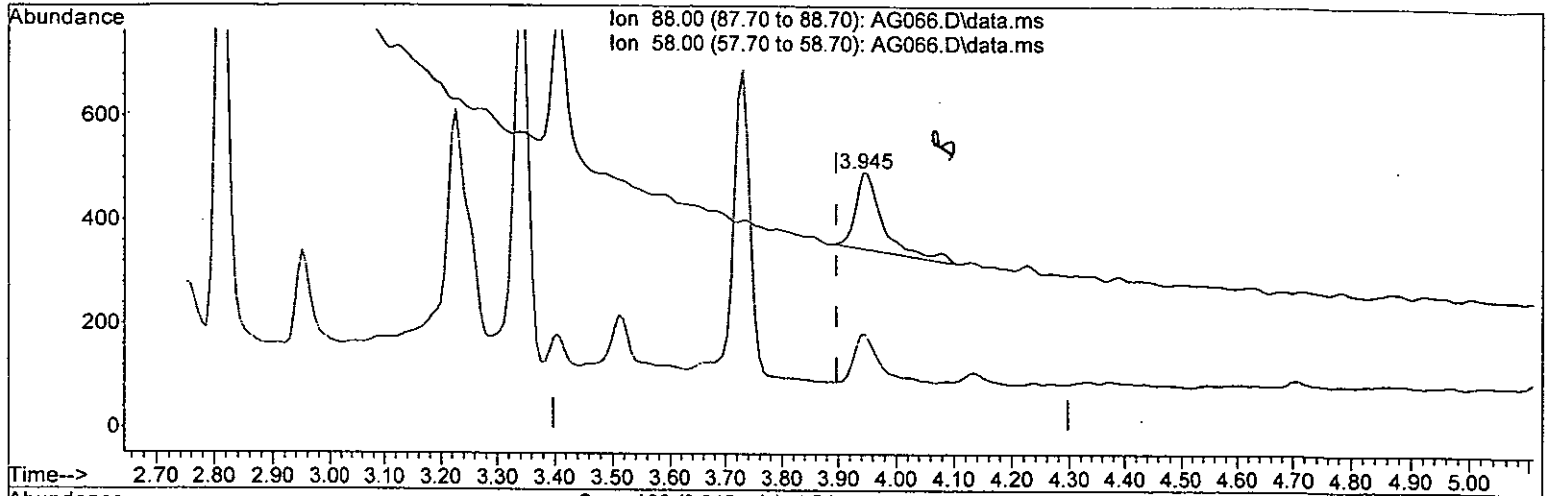
Quant Time: Jun 26 14:22:45 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 12:13:22 2014  
 Response via : Initial Calibration





Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG066.D  
 Acq On : 26 Jun 2014 12:27 pm  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 2 ppb STD 8270D/522  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 12:45:31 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 12:13:22 2014  
 Response via : Initial Calibration



TIC: AG066.D\data.ms

(2) 1,4-Dioxane (T)

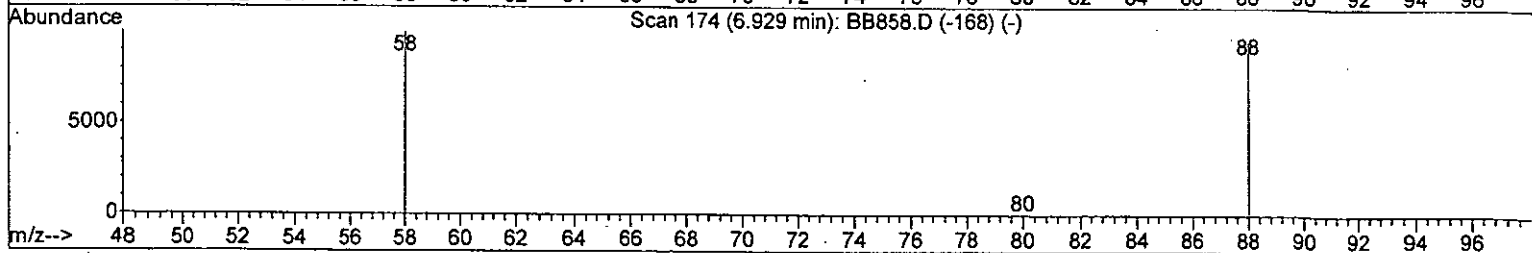
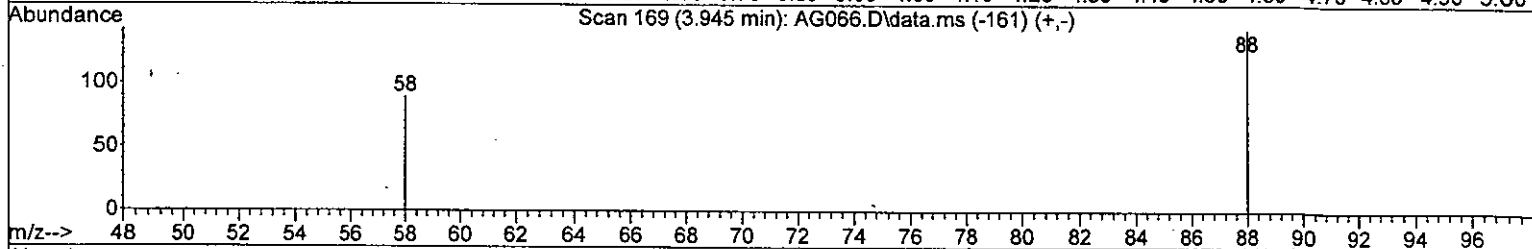
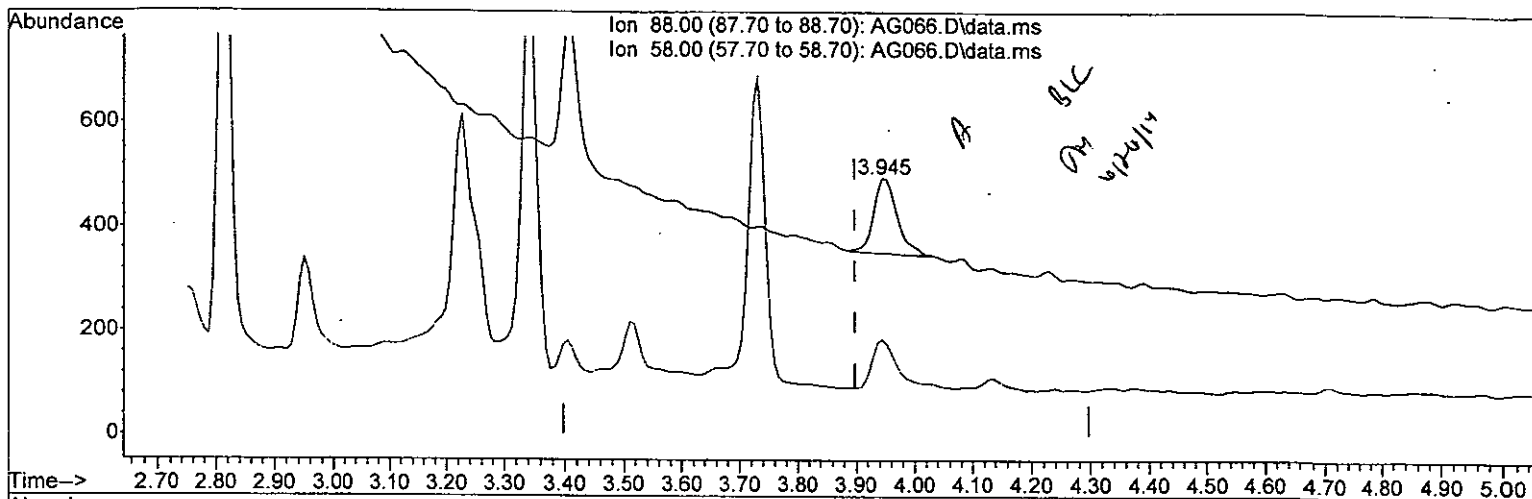
3.945min (+ 0.047) 2.46 PPB

response 483

Ion	Exp%	Act%
88.00	100.00	100.00
58.00	64.60	59.29
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG066.D  
 Acq On : 26 Jun 2014 12:27 pm  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 2 ppb STD 8270D/522  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 12:45:31 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 12:13:22 2014  
 Response via : Initial Calibration



TIC: AG066.D\data.ms

(2) 1,4-Dioxane (T)

3.945min (+ 0.047) 2.13 PPB m

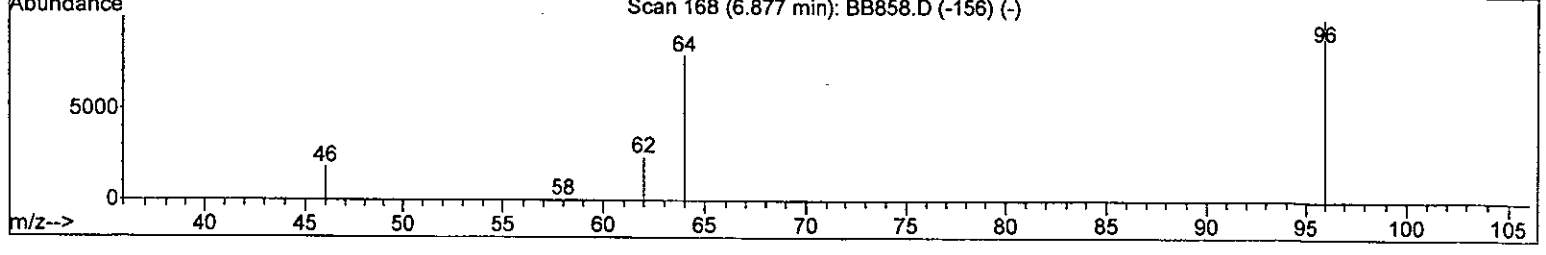
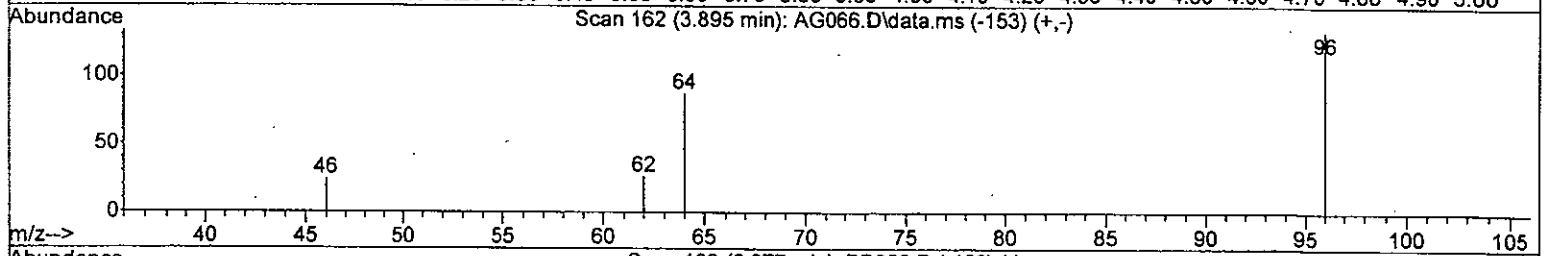
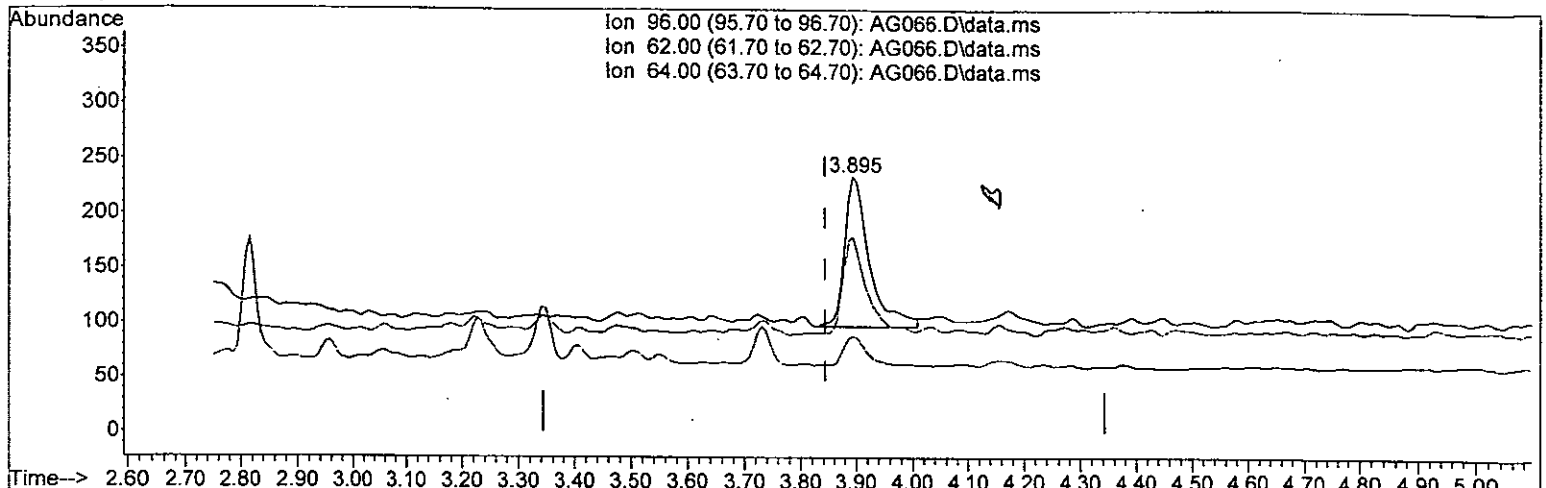
response 402

Ion	Exp%	Act%
88.00	100.00	100.00
58.00	64.60	37.32#
0.00	0.00	0.00
0.00	0.00	0.00

*AM*  
*6/26*

Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG066.D  
 Acq On : 26 Jun 2014 12:27 pm  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 2 ppb STD 8270D/522  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 12:45:31 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 12:13:22 2014  
 Response via : Initial Calibration



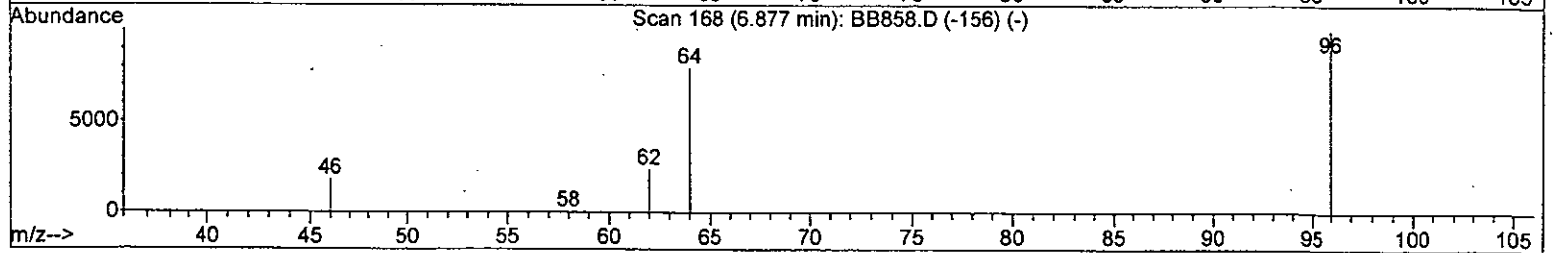
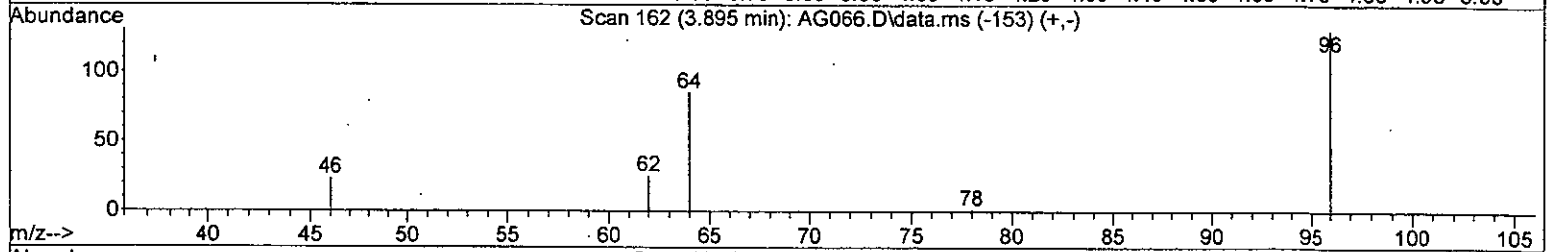
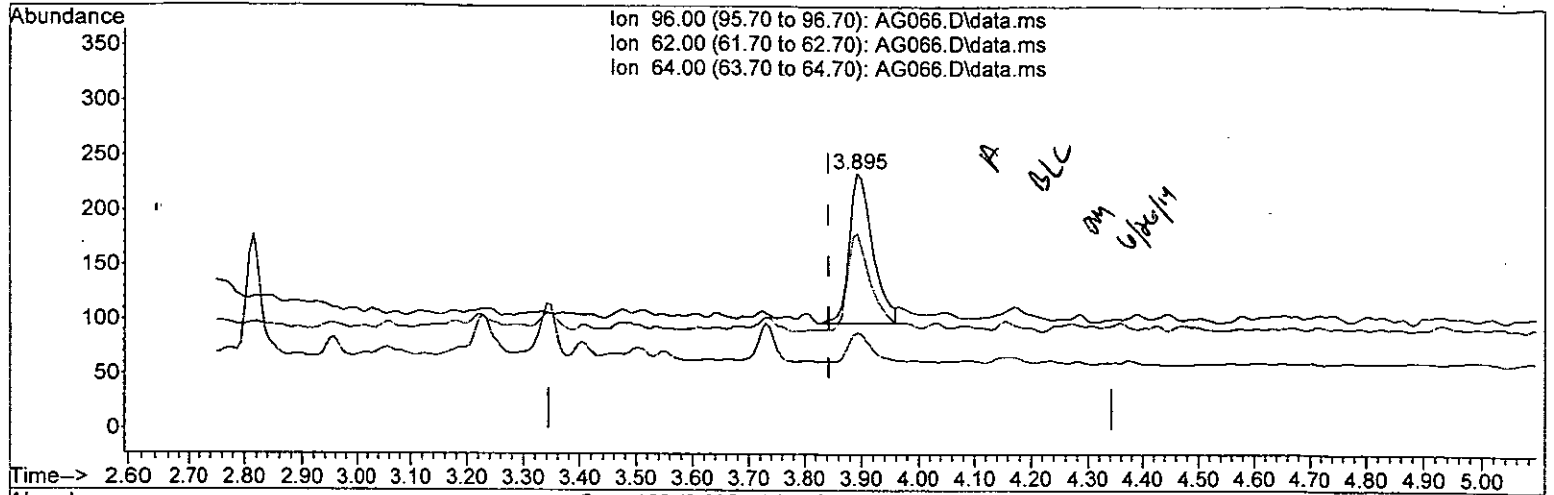
TIC: AG066.D\data.ms

(3) SURR,1,4-DIOXANE-d8 (S)  
 3.895min (+ 0.051) 2.30 PPB

response	419	
Ion	Expt	Act%
96.00	100.00	100.00
62.00	17.90	19.55
64.00	61.30	65.41
0.00	0.00	0.00

Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG066.D  
 Acq On : 26 Jun 2014 12:27 pm  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 2 ppb STD 8270D/522  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 14:21:42 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 12:13:22 2014  
 Response via : Initial Calibration



TIC: AG066.D\data.ms

(3) SURR,1,4-DIOXANE-d8 (S)  
 3.895min (+ 0.051) 2.15 PPB m

response	386	
Ion	Exp%	Act%
96.00	100.00	100.00
62.00	17.90	37.61
64.00	61.30	76.50
0.00	0.00	0.00

*Handwritten signature*

Data Path : I:\ACQUADATA\5975E\data\062614\  
Data File : AG077.D  
Acq On : 26 Jun 2014 3:49 pm  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 200 ppb STD 8270D/522  
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 27 07:30:49 2014  
Quant Method : I:\ACQUADATA\5975E\METHODS\SDIOX062614.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Thu Jun 26 12:13:22 2014  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 IR d8-THF	500.000	500.000	0.0	108	0.02
2 T 1,4-Dioxane	200.000	195.814	2.1	105	0.01
3 S SURR,1,4-DIOXANE-d8	200.000	195.861	2.1	107	0.02

*07  
4/27/14*

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG077.D  
 Acq On : 26 Jun 2014 3:49 pm  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 200 ppb STD 8270D/522  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 27 07:30:49 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 12:13:22 2014  
 Response via : Initial Calibration

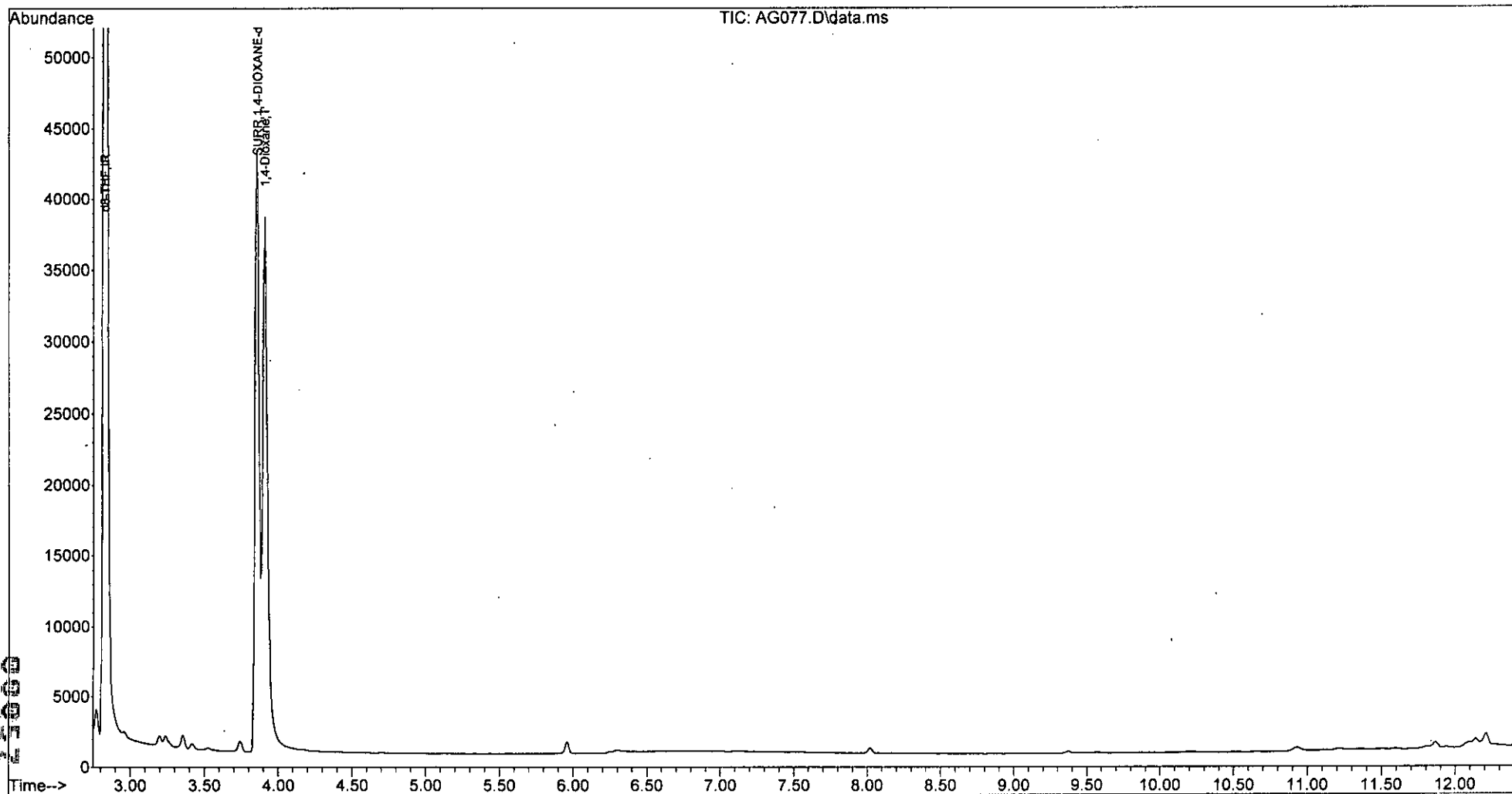
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) d8-THF	2.829	46	96435	500.00	PPB	0.02	
System Monitoring Compounds							
3) SURR,1,4-DIOXANE-d8	3.859	96	45516	195.86	PPB	0.02	
Spiked Amount	100.000	Range	70 - 130	Recovery	=	195.86%#	
Target Compounds							
2) 1,4-Dioxane	3.909	88	52266	195.81	PPB		Qvalue 95

*AM*  
*6/27/14*

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG077.D  
 Acq On : 26 Jun 2014 3:49 pm  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 200 ppb STD 8270D/522  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 27 07:30:49 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 12:13:22 2014  
 Response via : Initial Calibration





# PERCHLORATE RAW QC DATA

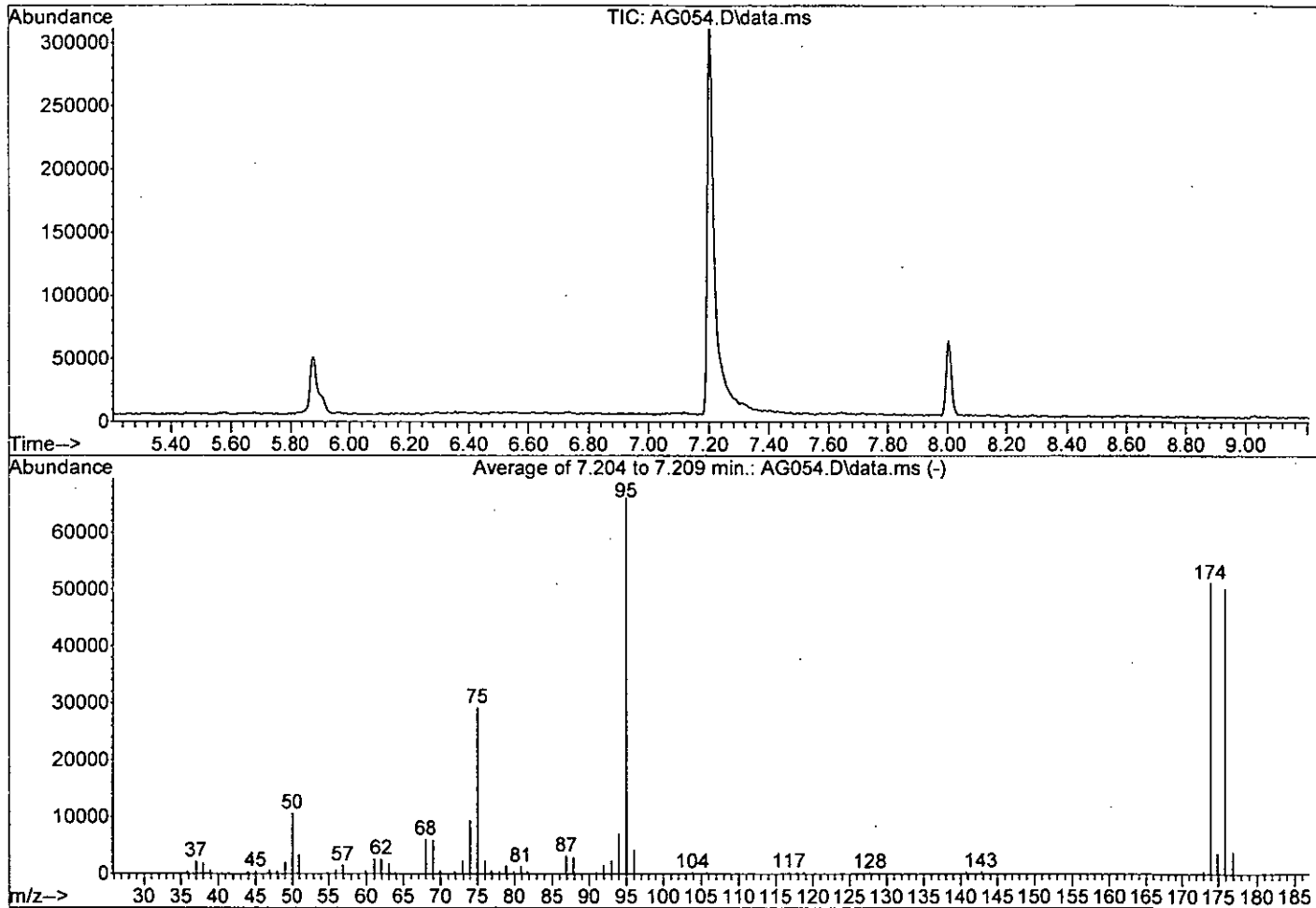
**ALS Environmental - Rochester, NY**  
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG054.D  
 Acq On : 26 Jun 2014 8:21 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : BFB  
 ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : I:\ACQUDATA\5975E\METHODS\bfbtune.M  
 Title :  
 Last Update : Wed Mar 28 08:41:26 2012



AutoFind: Scans 744, 745, 746; Background Corrected with Scan 733

AUTOFIND via AUTOINTEGRATE

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.0	10545	PASS
75	95	30	60	44.1	29125	PASS
95	95	100	100	100.0	66101	PASS
96	95	5	9	6.4	4224	PASS
173	174	0.00	2	1.0	496	PASS
174	95	50	100	77.3	51117	PASS
175	174	5	9	6.9	3544	PASS
176	174	95	101	98.0	50117	PASS
177	176	5	9	7.6	3833	PASS

AM  
4/24/14

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.610  
 Sample Matrix: Water

Service Request: R1404628  
 Date Collected: NA  
 Date Received: NA  
 Date Extracted: 6/25/14  
 Date Analyzed: 6/26/14 12:45

Sample Name: Method Blank  
 Lab Code: RQ1407012-01

Units: µg/L  
 Basis: As Received

1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

Analytical Method: 522  
 Prep Method: Method  
 Data File Name: I:\ACQUDATA\5975E\data\062614\AG067.D\

Analysis Lot: 399233  
 Extraction Lot: 211375  
 Instrument Name: R-MS-56  
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
123-91-1	1,4-Dioxane	0.0400	U	0.0400	0.0200	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	89	70-130	6/26/14 12:45	

Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG067.D  
 Acq On : 26 Jun 2014 12:45 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1407012-01|1.0  
 Misc : 06/25/14 8270D/522 BLK  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 26 14:24:40 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 12:13:22 2014  
 Response via : Initial Calibration

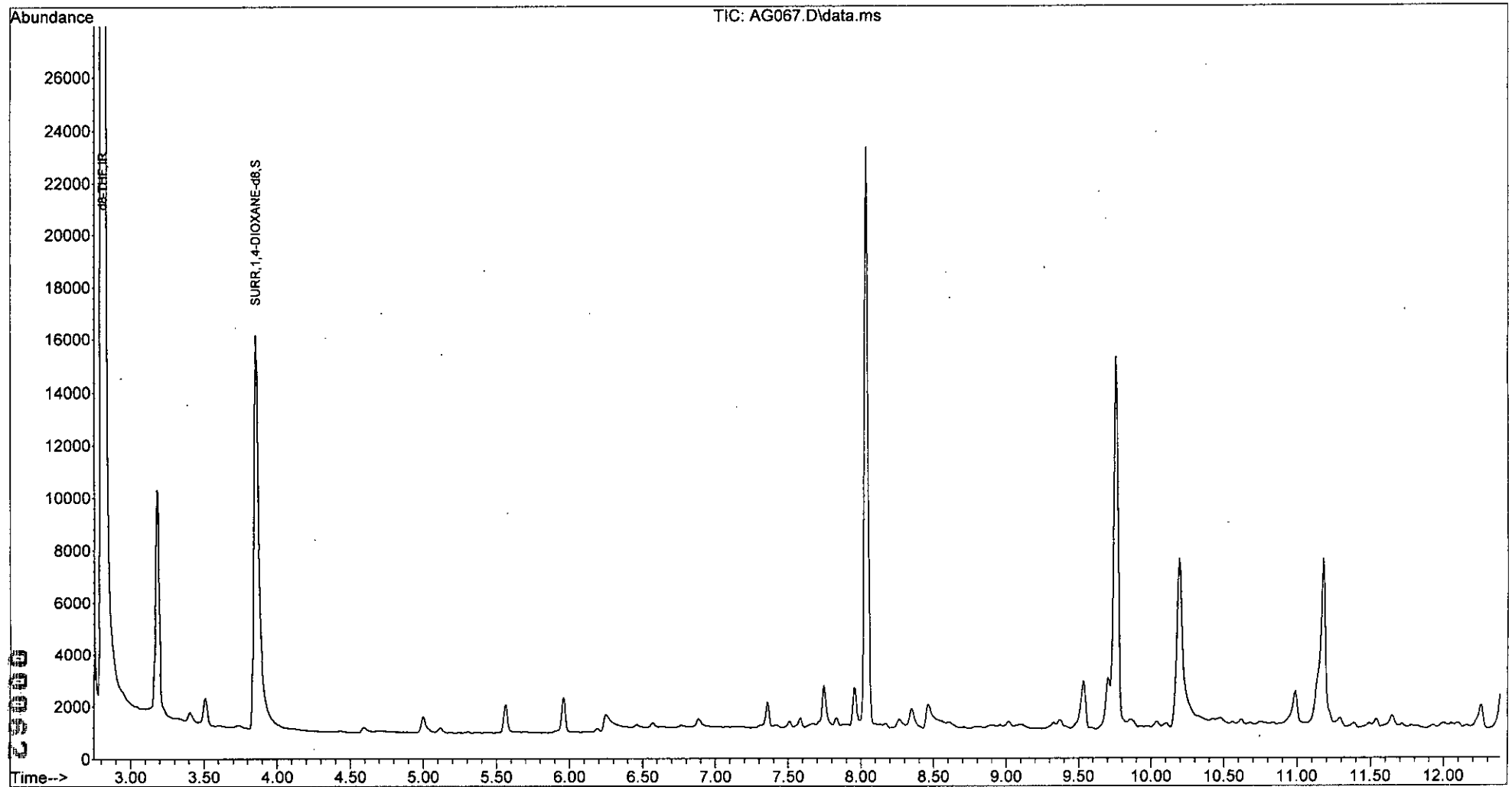
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	2.808	46	90175	500.00	PPB	0.00
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	3.852	96	19341	89.46	PPB	0.00
Spiked Amount	100.000	Range	70 - 130	Recovery	=	89.46%
Target Compounds						
2) 1,4-Dioxane	0.000		0	N.D.	d	Qvalue
-----						

*OK*  
*6/26/14*

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG067.D  
 Acq On : 26 Jun 2014 12:45 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1407012-01|1.0  
 Misc : 06/25/14 8270D/522 BLK  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 26 14:24:40 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 12:13:22 2014  
 Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.610  
 Sample Matrix: Water

Service Request: R1404628  
 Date Collected: NA  
 Date Received: NA  
 Date Extracted: 6/25/14  
 Date Analyzed: 6/26/14 13:04

Sample Name: Lab Control Sample  
 Lab Code: RQ1407012-02

Units: µg/L  
 Basis: As Received

1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

Analytical Method: 522  
 Prep Method: Method  
 Data File Name: I:\ACQUDATA\5975E\data\062614\AG068.D\

Analysis Lot: 399233  
 Extraction Lot: 211375  
 Instrument Name: R-MS-56  
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
123-91-1	1,4-Dioxane	8.97		0.0400	0.0200	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	87	70-130	6/26/14 13:04	

Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG068.D  
 Acq On : 26 Jun 2014 1:04 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1407012-02|1.0  
 Misc : 06/25/14 8270D/522 LCS  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 26 14:25:01 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 12:13:22 2014  
 Response via : Initial Calibration

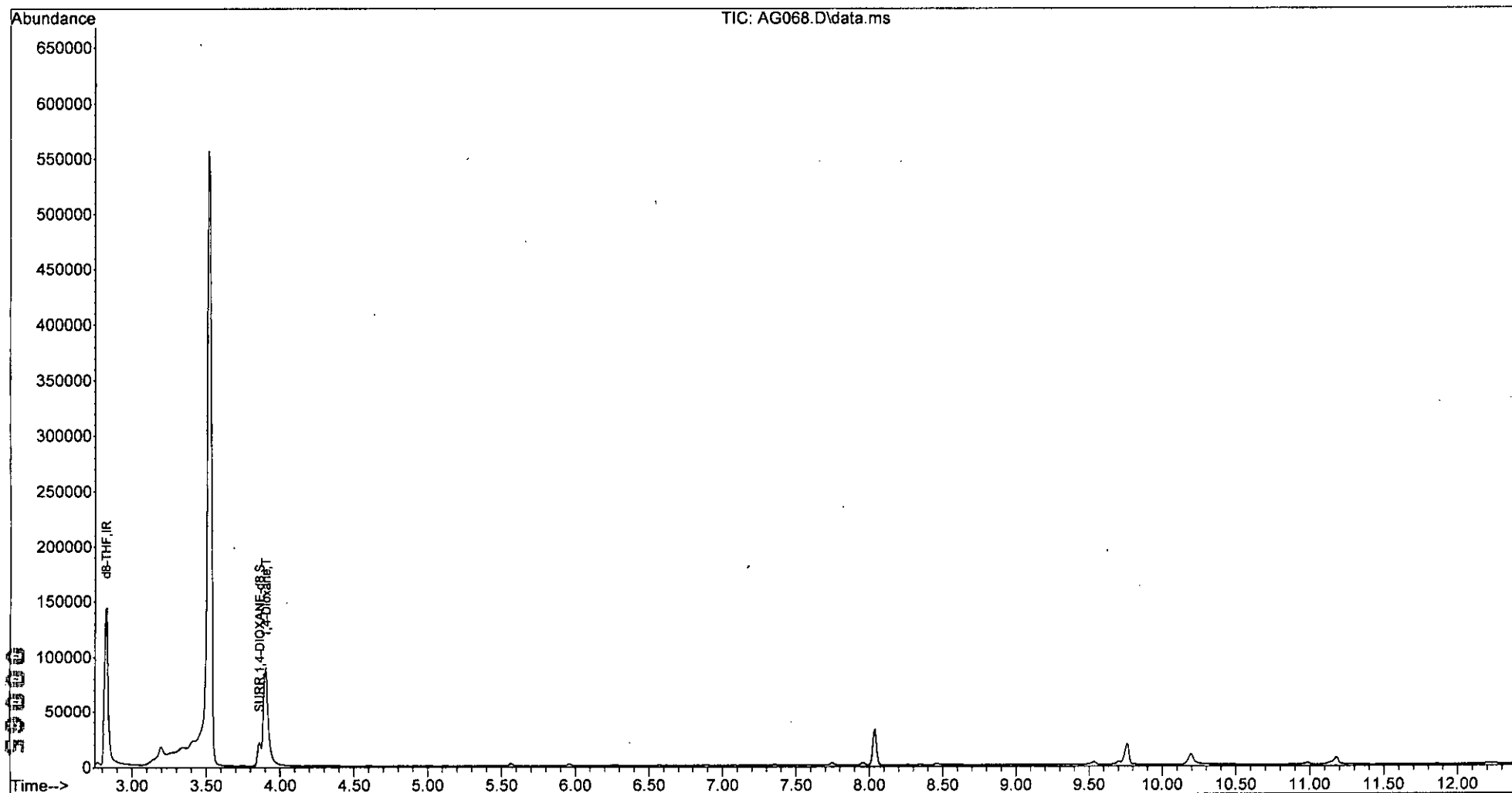
*OK  
6/24/14*

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d8-THF	2.822	46	97435	500.00	PPB	0.01
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	3.860	96	20264	86.76	PPB	0.02
Spiked Amount	100.000	Range	70 - 130	Recovery	=	86.76%
Target Compounds						
2) 1,4-Dioxane	3.902	88	122234	448.70	PPB	Qvalue 93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG068.D  
 Acq On : 26 Jun 2014 1:04 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1407012-02|1.0  
 Misc : 06/25/14 8270D/522 LCS  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 26 14:25:01 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 12:13:22 2014  
 Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.610  
 Sample Matrix: Water

Service Request: R1404628  
 Date Collected: NA  
 Date Received: NA  
 Date Extracted: 6/25/14  
 Date Analyzed: 6/26/14 13:22

Sample Name: Duplicate Lab Control Sample  
 Lab Code: RQ1407012-03

Units: µg/L  
 Basis: As Received

1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

Analytical Method: 522  
 Prep Method: Method  
 Data File Name: I:\ACQUDATA\5975E\data\062614\AG069.D\

Analysis Lot: 399233  
 Extraction Lot: 211375  
 Instrument Name: R-MS-56  
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
123-91-1	1,4-Dioxane	8.78		0.0400	0.0200	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	85	70-130	6/26/14 13:22	



Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG069.D  
 Acq On : 26 Jun 2014 1:22 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1407012-03|1.0  
 Misc : 06/25/14 8270D/522 LCSD  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 26 14:28:23 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 12:13:22 2014  
 Response via : Initial Calibration

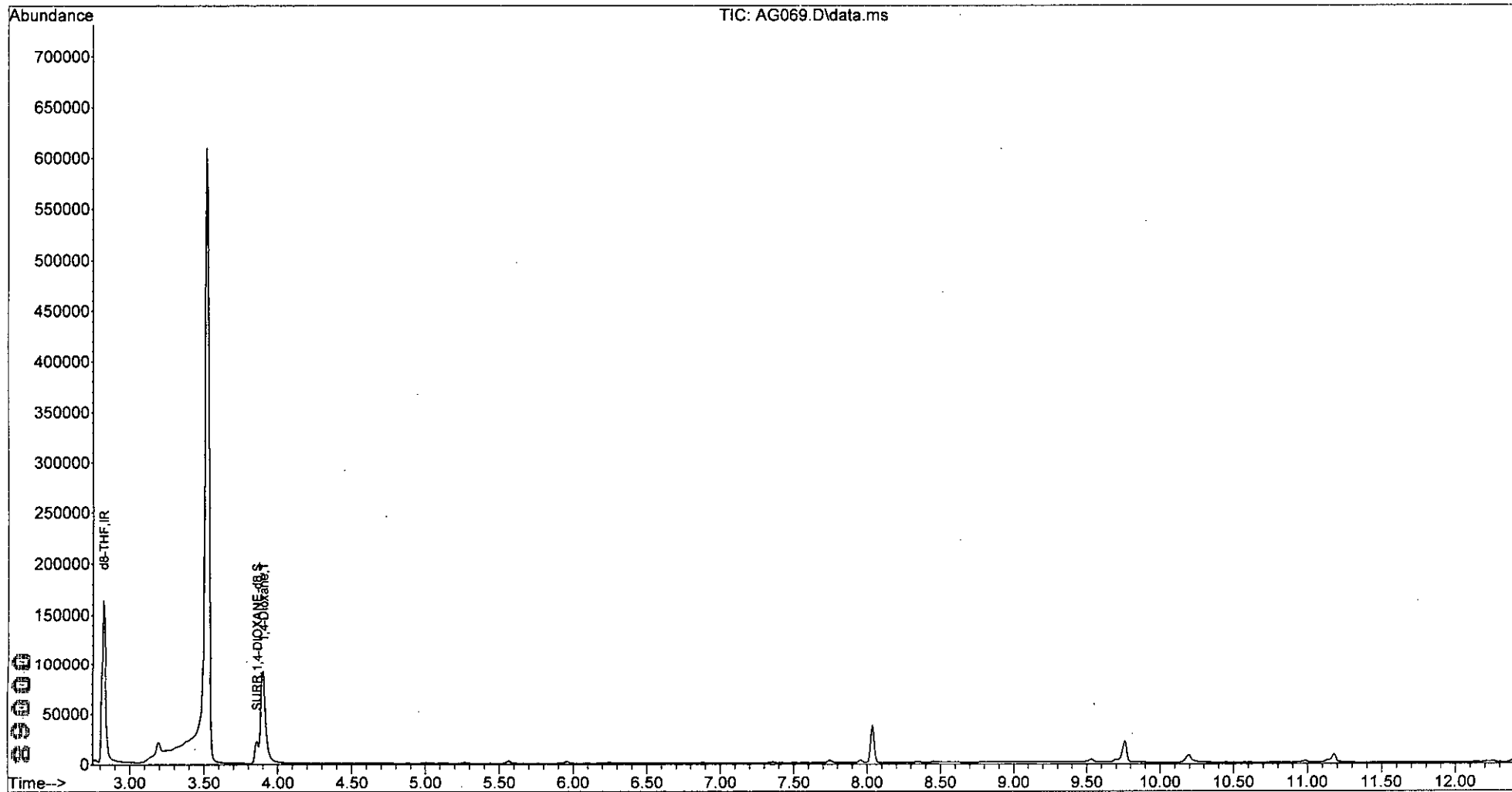
*M*  
*6/26/14*

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d8-THF	2.822	46	104566	500.00	PPB	0.01
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	3.859	96	21319	85.06	PPB	0.02
Spiked Amount	100.000	Range	70 - 130	Recovery	=	85.06%
Target Compounds						
2) 1,4-Dioxane	3.902	88	128238	438.80	PPB	Qvalue 91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG069.D  
 Acq On : 26 Jun 2014 1:22 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1407012-03|1.0  
 Misc : 06/25/14 8270D/522 LCSD  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 26 14:28:23 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 12:13:22 2014  
 Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.610  
 Sample Matrix: Water

Service Request: R1404628  
 Date Collected: NA  
 Date Received: NA  
 Date Extracted: 6/25/14  
 Date Analyzed: 6/26/14 13:40

Sample Name: Lab Control Sample  
 Lab Code: RQ1407012-04

Units: µg/L  
 Basis: As Received

1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

Analytical Method: 522  
 Prep Method: Method  
 Data File Name: I:\ACQUDATA\5975E\data\062614\AG070.D\

Analysis Lot: 399233  
 Extraction Lot: 211375  
 Instrument Name: R-MS-56  
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
123-91-1	1,4-Dioxane	0.0468	0.0400	0.0200	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	78	70-130	6/26/14 13:40	



Data Path : I:\ACQUDATA\5975E\data\062614\  
 Data File : AG070.D  
 Acq On : 26 Jun 2014 1:40 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1407012-04|1.0  
 Misc : 06/25/14 8270D/522 LCSLL  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 26 14:28:53 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Jun 26 12:13:22 2014  
 Response via : Initial Calibration

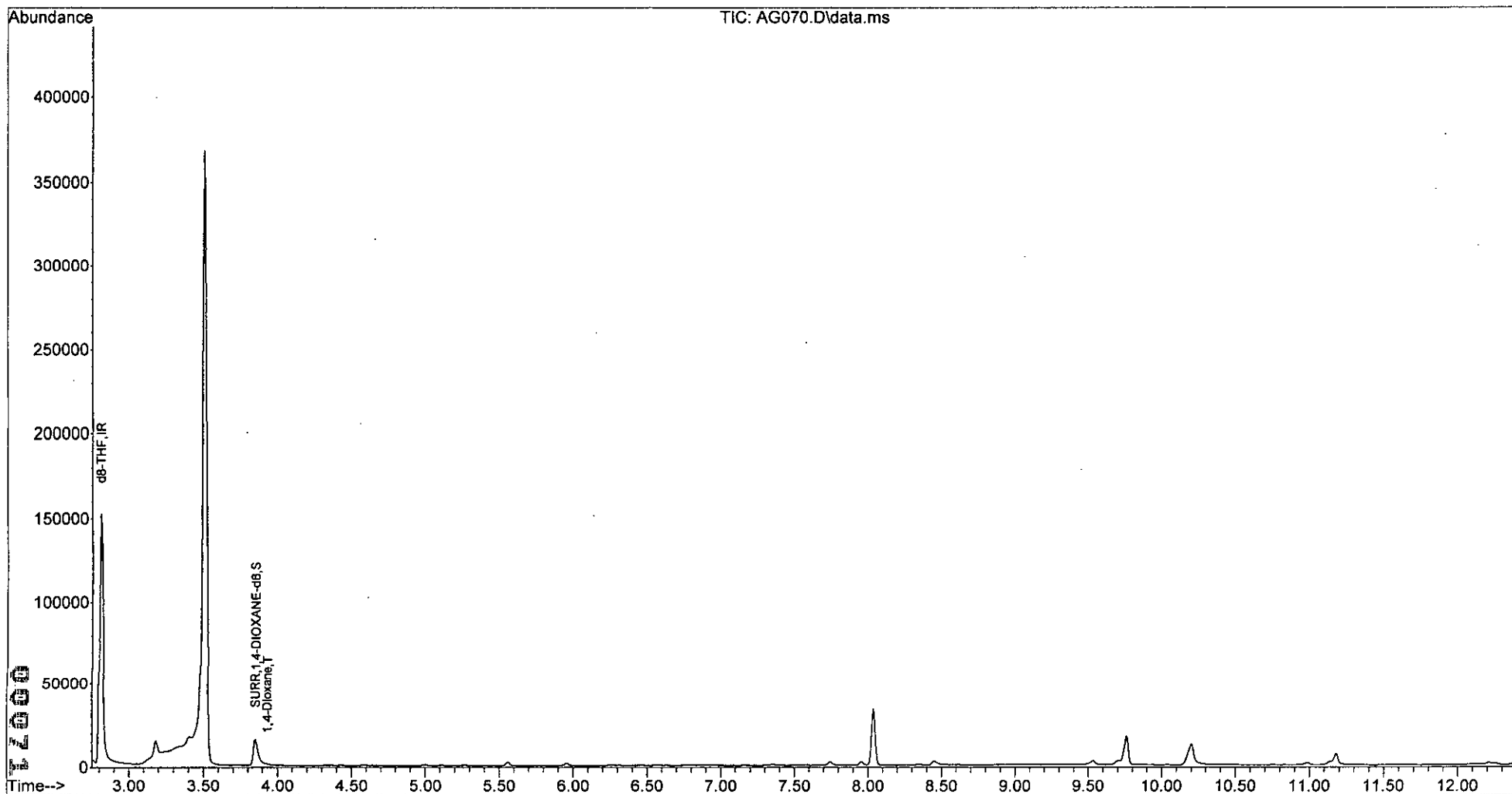
OM  
6/24/14

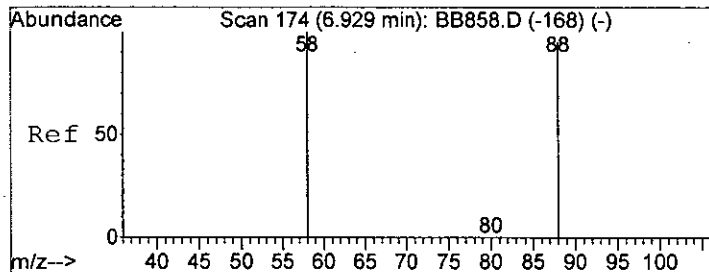
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d8-THF	2.808	46	100237	500.00	PPB	0.00
System Monitoring Compounds						
3) SURR, 1,4-DIOXANE-d8	3.852	96	18818	78.37	PPB	0.00
Spiked Amount	100.000	Range 70 - 130	Recovery	=	78.37%	
Target Compounds						
2) 1,4-Dioxane	3.930	88	513	2.34	PPB	Qvalue 87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\062614\  
Data File : AG070.D  
Acq On : 26 Jun 2014 1:40 pm  
Operator : J.Misiurewicz  
Sample : RQ1407012-04|1.0  
Misc : 06/25/14 8270D/522 LCSLL  
ALS Vial : 15 Sample Multiplier: 1

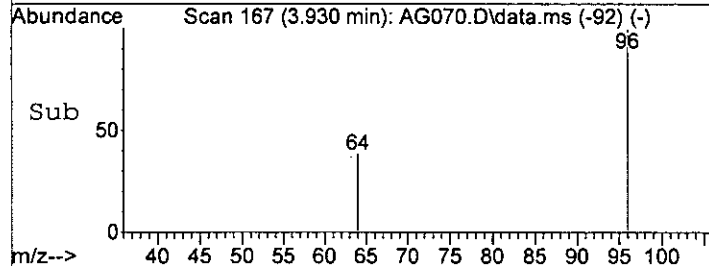
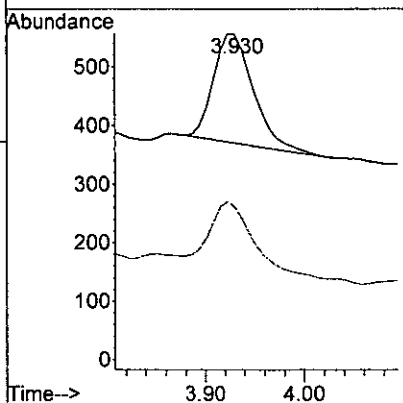
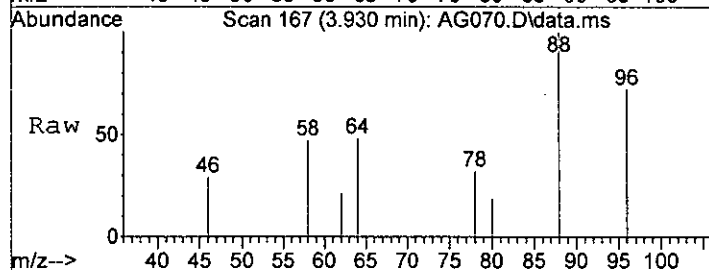
Quant Time: Jun 26 14:28:53 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX062614.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Thu Jun 26 12:13:22 2014  
Response via : Initial Calibration





#2  
 1,4-Dioxane  
 Concen: 2.34 PPB  
 RT: 3.930 min Scan# 167  
 Delta R.T. 0.032 min  
 Lab File: AG070.D  
 Acq: 26 Jun 2014 1:40 pm

Tgt Ion	Resp	Lower	Upper
88	100		
58	54.6	44.6	84.6



# Preparation Information Benchsheet

Prep Run#: 211375  
 Team: Semivoa GCMS/MPEDRO

Prep Workflow: OrgExt SPE Aq28  
 Prep Method: Method

Status: Prepped  
 Prep Date/Time: 6/25/14 12:00 PM

#	Lab Code	Client ID	B#	Amt. Ext	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1407012-01	MB		100mL	522/1,4-Dioxane FP				2.00mL		200.0000 uL/69135; 10.0000 uL/69806	
2	RQ1407012-02	LCS		100mL	522/1,4-Dioxane FP				2.00mL		200.0000 uL/69716; 200.0000 uL/69135; 10.0000 uL/69806	
3	RQ1407012-03	DLCS		100mL	522/1,4-Dioxane FP				2.00mL		200.0000 uL/69716; 10.0000 uL/69806; 200.0000 uL/69135	
4	RQ1407012-04	LCS		100mL	522/1,4-Dioxane FP				2.00mL		200.0000 uL/69135; 10.0000 uL/69806; 1.0000 mL/68909	
5	R1404628-001	MW-95	.01	100mL	522/1,4-Dioxane FP				2.00mL		200.0000 uL/69135; 10.0000 uL/69806	
6	R1404631-002	MRC-MW-22B-061714	.06	100mL	522/1,4-Dioxane FP				2.00mL		200.0000 uL/69135; 10.0000 uL/69806	
7	R1404631-004	MRC-MW-25A-061714	.06	100mL	522/1,4-Dioxane FP				2.00mL		10.0000 uL/69806; 200.0000 uL/69135	
8	R1404631-006	MRC-MW-98A-061714	.06	100mL	522/1,4-Dioxane FP				2.00mL		200.0000 uL/69135; 10.0000 uL/69806	
9	R1404631-007	MRC-MW-98B-061714	.06	100mL	522/1,4-Dioxane FP				2.00mL		200.0000 uL/69135; 10.0000 uL/69806	
10	R1404631-008	MRC-MW-111A-061614	.06	100mL	522/1,4-Dioxane FP				2.00mL		200.0000 uL/69135; 10.0000 uL/69806	
11	R1404631-009	MRC-MW-111B-061614	.06	100mL	522/1,4-Dioxane FP				2.00mL		10.0000 uL/69806; 200.0000 uL/69135	
12	R1404658-019	MRC-MW-90B-060914	.06	100mL	522/1,4-Dioxane FP				2.00mL		10.0000 uL/69806; 200.0000 uL/69135	
13	R1404658-020	MRC-MW-19A-060914	.06	100mL	522/1,4-Dioxane FP				2.00mL		200.0000 uL/69135; 10.0000 uL/69806	

### Spiking Solutions

Name: EPA 522 MDL Spike 4ppb	Inventory ID 68909	Logbook Ref:	Expires On: 08/05/2014
Name: 1,4-Dioxane-d8 1ppm Surr. Std.	Inventory ID 69135	Logbook Ref:	Expires On: 10/07/2014
Name: EPA 522 LCS Spike 5ppm	Inventory ID 69716	Logbook Ref:	Expires On: 08/05/2014
Name: SVOA Tetrahydrofuran-D8 100ppm	Inventory ID 69806	Logbook Ref:	Expires On: 07/30/2014

### Preparation Materials

Method 522 400mg charcoal filters	(69289)	Eppendorf Pipette Repeater	EXT #13 (41092)	2mL Graduated Vials	(71403)
Water Deionized H2O	DI System (2262)	Dichloromethane (Methylene Chloride) 99.9% MeCl2	canister (71374)	Methanol Purge & Trap MeOH	64288 (64288)

# Preparation Information Benchsheet

Prep Run#: 211375

Team: Semivoa GCMS/MPEDRO

Prep WorkFlow: OrgExt SPE Aq28

Prep Method: Method

Status: Prepped

Prep Date/Time: 6/25/14 12:00 PM

## Preparation Steps

Step: Extraction  
Started: 6/25/14 12:00  
Finished: 6/25/14 13:30  
By: MPEDRO  
Comments

Comments: \_\_\_\_\_

Reviewed By: Mig-Ros Date: 6/26/14 Spike Witness: LPRUNOSKE Date: \_\_\_\_\_

### Chain of Custody

Relinquished By: _____	Date: _____	<u>Extracts Examined</u> Yes No
Received By: _____	Date: _____	



Analysis: 82700/522  
Date: 6/26/14

Analyst: J. Misiewicz Run Method: SDX062614.m  
Instr. 5975E Quant Method: SDX062614.m  
LIMS Run#: 399232 | 399234

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
1	Tune 50mg DFSP			AG051	YT	
1	Tune BFB			52	N	
1	↓			53	N	
1	Tune BFB			54	YT	
2	Tune 50mg DFSP			55	Y	
1	Blk			56	Y	
2	STD 1	2 ppb		57	Y	
3	2	10		58	Y	
4	3	20		59	Y	
5	4	100		60	Y	
6	5	200		61	Y	
7	6	500		62	Y	
8	7	1000		63	Y	
9	8	5000		64	Y	
10	ICV	20 ppb		65	Y	
11	CCV 0.002 STD	2 ppb		66	YCC	
12	RQ1407012-01	1.0 Bk	82700/522	67	YAB	
13	↓ -02	1.0 LC	↓	68	YQ	
14	↓ -03	1.0 LC	↓	69	YQ	
15	↓ -04	1.0 LC	522	70	YQ	
16	LOQ RQ1407013-06	1.0	82700	71	Y	
17	LODV ↓ -07	1.0	↓	72	Y	
18	R1404628-001	1.0	522	73	Y	
19	R1404631-002	1.0	↓	74	Y	
20	↓ -004	1.0	↓	75	Y	
21	↓ -006	1.0	↓	76	Y	
22	CCV 0.2 STD	200 ppb		77	YCC	
23	R1404631-007	1.0	522	78	(N)	No closing CCV RPT 1/2
24	↓ -008	1.0	↓	79	↓	↓
25	↓ -009	1.0	↓	80	↓	RPT 1/2
26	R1404658-019	1.0	↓	81	↓	← on 6/27/14
27	↓ -020	1.0	↓	82	↓	↓
28	R1404719-001	1.0	82700	83	Y	
29	↓ -002	1.0	↓	84	(N)	RPT 1/2
30	↓ -003	1.0	↓	85	Y	
31	RQ1407013-04	1.0 MS	↓	86	YQ	
32	↓ -05	1.0 MS	↓	87	YQ	
33	CCV 1 STD	1000 ppb		88	(N)	Not run

All samples = \_\_\_\_\_ mL + \_\_\_\_\_ uL Combined IS/Surr.;

Primary: \_\_\_\_\_ exp: \_\_\_\_\_ Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Primary: \_\_\_\_\_ exp: \_\_\_\_\_ Secondary: \_\_\_\_\_ exp: \_\_\_\_\_



# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

16141

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name <i>Auriga</i>		Project Number <i>00280417.610</i>		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																					
Project Manager <i>Brian Collgren</i>		Report CC		PRESERVATIVE																					
Company/Address <i>AECOM</i>				NUMBER OF CONTAINERS	GC/MS VOA's • 8260 • 824 • CLP	GC/MS SVOA's • 8270 • 825	GC VOA's • 8021 • 801/802	PESTICIDES • 8081 • 808	PCBS • 8082 • 808	METALS TOTAL (List in comments below)	METALS DISSOLVED (List in comments below)	<i>5/21/14 Diethylene FP #82</i>	<i>505</i>											Preservative Key 0. NONE 1. HCL 2. HNO <sub>3</sub> 3. H <sub>2</sub> SO <sub>4</sub> 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO <sub>4</sub> 8. Other _____	
One Midtown Plaza, 1360 Peachtree St NE, <i>Atlanta GA 30309</i>																									
Phone # <i>1-404-965-9657</i>		Email																							
Sampler's Signature <i>Randy Morgan</i>		Sampler's Printed Name <i>Randy Morgan</i>																							
CLIENT SAMPLE ID <i>MW-95</i>	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE <i>6-17-14</i>		TIME <i>1203</i>	MATRIX <i>Ground water</i>																				
SPECIAL INSTRUCTIONS/COMMENTS <i>Metals STAT - Standard Turnaround Time</i>				TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day <i>STAT</i> REQUESTED REPORT DATE				REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data Edata Yes No				INVOICE INFORMATION PO # BILL TO:													
STATE WHERE SAMPLES WERE COLLECTED <i>Spokane SC</i>				RELINQUISHED BY <i>Randy Morgan</i>				RECEIVED BY				RELINQUISHED BY				RECEIVED BY									
Signature <i>Randy Morgan</i>		Signature		Signature		Signature		Signature		Signature		Signature		Signature											
Printed Name <i>AECOM</i>		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name											
Firm <i>AECOM</i>		Firm		Firm		Firm		Firm		Firm		Firm		Firm											
Date/Time <i>6-17-14 1430</i>		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time											

PROJECT NUMBER: 60280417.610 DATE: June 17, 2014 REPORT NUMBER: 1 of 1

PROJECT & LOCATION: Auriga, Spartanburg SC

CLIENT: \_\_\_\_\_ AECOM FIELD REPRESENTATIVE: Randy Meyer

SUBCONTRACTOR: \_\_\_\_\_

SUBCONTRACTOR PERSONNEL ON SITE: \_\_\_\_\_

BRIEF SUMMARY OF WORK PERFORMED: locate, purge & sample MW-95

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0900		leave AECOM to pick up equipment
0911		at equipment center, Eric still working on YSI waiting for it.
0930		leave for Auriga Spartanburg SC
1007		pick up ice
1015		arrive at bridge area near MW 95 park and mob to area to try to locate well
1118		locate well clear area to access bring equipment down to well - calibrate DO% as it was not finished at equipment center all else calibrated
		DO% saturated air @ 31.49c 7.28
1130		at MW-95 take water level set up to micro purge
1136		begin to micro purge w/ peristaltic pump
	1203	sampled MW-95
1210		begin to take equipment back up to the van take photos of area and well
1226		empty purge water at WWTP at Auriga
1238	1330	off site to return equipment and ship samples Fed Ex ship samples from AECOM office

FIELD REPRESENTATIVES SIGNATURE: Randy Meyer DATE: June 17, 2014

# Sample Collection Supplies



T034758

Client: AECOM, Inc.  
 Project: Auriga Spartanburg  
 SDG Name: Auriga Spartanburg

P.O. Number: 44071ACM

Ship To: AECOM, Atten: Mark Hartford  
 10 Patewood Drive  
 Building VI, Suite 500  
 Greenville, SC 29615  
 E-mail: mark.kromis@aecom.com  
 Phone: 864-234-3586

Comments: **Bag containers by sample template.**

Order #: 50375  
 Date Required: 6/17/14  
 Project Chemist: Janice Jaeger  
 Phone Number: 585-288-5380 x7472

Shipped On: \_\_\_\_\_  
 Shipped By: \_\_\_\_\_  
 Tracking #: \_\_\_\_\_  
 Shipping Cost: \_\_\_\_\_

## Grouped by Container Type

Quantity	Container
1	500mL-Glass Bottle NM AMBER Teflon Liner(Na2SO3) 1 per sample      522/1,4-Dioxane FP

## Grouped by Sample Template

Sample Template Number / Name	Expected Number of Samples	Containers	Number of Containers per Sample	Comments
001 / 1,4-Dioxane	1	500mL-Glass Bottle NM AMBER Teflon Liner(Na2SO3) - 522	1	

2

**Precautions:** Preserved sample containers should not be overflowed while filling. Under no circumstances should the inside of the containers or lids be handled.

**Please return this form with your coolers when delivering your samples to ALS Environmental.**



### FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr) _____ June 17-2014	Casing Diameter _____ 2.0 _____ inches
Field Personnel _____ Randy Morgan	Casing Material _____ PVC
Site Name _____ Auriga	Measuring Point Elevation _____ 1/100 ft
AECOM JOB # _____ 60280417.610	Height of Riser (above land surface) _____ 1/100 ft
Well ID* _____ MW-95	Land Surface Elevation _____ 1/100 ft
_____ Upgradient _____ Downgradient _____ Sidegradient _____ Source	Screened Interval _____ 1/100 ft
Weather Conditions _____ <u>clear / sunny</u>	Dedicated Pump or Bailor YES _____ NO <u>X</u> Type _____
Air Temperature _____ <u>85</u> _____ ° F	Steel Guard Pipe Around Casing <u>X</u> YES <u>X</u> NO _____
Total Well Depth (TWD) = _____ <u>20.22 TOC</u> _____ 1/100 ft	Locking Cap YES _____ NO _____
Depth to Ground Water (DGW) = _____ <u>13.68</u> _____ 1/100 ft	Protective Post/Abutment YES _____ NO <u>X</u>
Length of Water Column (LWC) = TWD - DGW = _____ 1/100 ft	Well Integrity Satisfactory YES _____ NO _____
1 Casing Volume (OCV)* = LWC x _____ 0.163 = _____ gal	Yield LOW _____ MODERATE _____ HIGH <u>X</u>
3 Casing Volumes = _____ gal = Standard Evacuation Volume	Comments/Observations
Method of Sample Evacuation _____ Peristaltic Pump	Sample Time: <u>1203</u>
Method of Sample Collection _____ Peristaltic Pump	_____
Total Volume of Water Removed _____ <u>1.75</u> _____ gal	_____

\* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.  
 Volume (in gallons) =  $\pi r^2 h (7.48)$ , where r is the radius (ft) and h is the height (ft).

#### FIELD ANALYSES

	Initial	<u>35</u>	<u>70</u>	<u>1.05</u>	<u>1.40</u>	<u>1.75</u>				
VOLUME PURGED (gallons)										
TIME (Military)	<u>1136</u>	<u>1141</u>	<u>1146</u>	<u>1151</u>	<u>1156</u>	<u>1201</u>				
Water Level (ft BTOC)	<u>13.70</u>	<u>13.71</u>	<u>13.71</u>	<u>13.71</u>	<u>13.71</u>	<u>13.71</u>				
pH (S.U.)	<u>6.53</u>	<u>5.77</u>	<u>5.59</u>	<u>5.55</u>	<u>5.49</u>	<u>5.40</u>				
Sp. Cond. (mS/cm)	<u>0.044</u>	<u>0.044</u>	<u>0.044</u>	<u>0.044</u>	<u>0.043</u>	<u>0.043</u>				
Water Temp. (°C)	<u>18.81</u>	<u>17.59</u>	<u>17.19</u>	<u>17.09</u>	<u>17.08</u>	<u>16.99</u>				
Turbidity (NTUs)	<u>15.77</u>	<u>8.45</u>	<u>5.45</u>	<u>3.87</u>	<u>4.58</u>	<u>4.62</u>				
DO - (mg/L)	<u>5.71</u>	<u>6.07</u>	<u>6.41</u>	<u>6.35</u>	<u>6.52</u>	<u>6.60</u>				
Salinity (ppt)	<u>0.02</u>	<u>0.02</u>	<u>0.02</u>	<u>0.02</u>	<u>0.02</u>	<u>0.02</u>				
ORP (mV)	<u>1333</u>	<u>181.4</u>	<u>195.1</u>	<u>198.2</u>	<u>205.0</u>	<u>211.4</u>				

COMMENTS/OBSERVATIONS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

YSI 556 MPS / Water Quality Calibration Certificate



Cal Standard Temp, LAB, C: 25-49 Temp, FIELD, C:         

Conductivity	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
1413 UMHO/CM @ 25°C	7308325	9/14	<u>1-278</u>		(+/- .5%)

PH 4.00	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
@ 25°C	7305561	6/15	<u>4.00</u>		(+/- 0.2 units)

PH 7.01	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
@ 25°C	7305559	6/15	<u>7.01</u>		(+/- 0.2 units)

PH 10.01	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
@ 25°C	7305560	6/15	<u>10.02</u>		(+/- 0.2 units)

ORP ZOBELLS	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
231.0 MV @ 25°C	7401080	4/14	<u>237.5</u>		(+/- 20 MV)

Dissolved Oxygen (Saturated Air)	Post-Cal, LAB	Temp, C	% Saturation	mg/L	Acceptable Range
		<u>25-49</u>	<u>97.7</u>	<u>8.32</u>	
	Post-Cal, FIELD				

New DO Membrane:  Yes  No

Do Cap Color:  Black  Blue  Yellow

Model: 556 S/N: 08510253 Cable: 14A35

Calibration referenced to the temperature of the calibration standards.

Turbidity	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
.02 NTU	<u>40101</u>	<u>JAN-16</u>	<u>0.02</u>		(.0196 to .0204)
10 NTU	<u>40147</u>	<u>JAN-16</u>	<u>10.06</u>		(9.8 to 10.2)
1000 NTU	<u>40148</u>	<u>JAN-16</u>	<u>1001</u>		(970 to 1031)

Model: Micro TPW S/N: 201404340

Calibrated By: Eric Olson Date of Calibration: 6-17-14

Project Name: 60280417.610 Project number: Aurisa

Signed: [Signature]



July 23, 2014

Service Request No: R1405373

Mr. Bryon Dahlgren  
AECOM, Inc.  
1360 Peachtree Street NE  
Suite 500  
Atlanta, GA 30309

**Laboratory Results for: Auriga Spartanburg/60280417.00030**

Dear Mr. Dahlgren:

Enclosed are the results of the sample(s) submitted to our laboratory on July 12, 2014. For your reference, these analyses have been assigned our service request number **R1405373**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at [Janice.Jaeger@alsglobal.com](mailto:Janice.Jaeger@alsglobal.com).

Respectfully submitted,

**ALS Group USA Corp. dba ALS Environmental**

Janice Jaeger  
Client Services Manager

Page 1 of 11

ALS Environmental

Client: AECOM  
Project: Auriga Spartanburg  
Sample Matrix: Water

Service Request No.: R1405373  
Date Received: 07/12/14

CASE NARRATIVE – Page 1

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS/DLCS).

**Sample Receipt**

One sample was received for analysis at ALS Rochester on 07/12/14. The samples were received consistent with the accompanying chain of custody form. All samples were received within the appropriate temperature guidelines and in good condition. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

**1,4-Dioxane by Method 522**

The Initial Calibration (ICAL), Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) criteria were met for all samples.

All surrogate standard recoveries were within acceptable limits.

All internal standard recoveries were within acceptable limits.

Site QC was not requested; however was performed. All Matrix Spike/Matrix Spike Duplicate (MS/MSD) and Laboratory Control Sample (LCS) and LCS Duplicate (LCSD) recoveries were acceptable. RPD's were within QC acceptance limits.

All Method Blanks were free of contamination.

The samples were extracted and analyzed within the appropriate holding times.

No other analytical or quality control problems were encountered during analysis.



## ALS ASP/CLP Batching Form/Login Sheet

Client Proj #: 60280417.00030	Batch Complete: Yes	Date Revised:
Submission: R1405373	Diskette Requested: No	Date Due: 8/4/14
Client: AECOM, Inc.	Date: 7/14/14	Protocol: EPA
Client Rep: JJAEGER	Custody Seal: Present/Absent:	Shipping No.:
Project: Auriga Spartanburg	Chain of Custody: Present/Absent:	SDG #:

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1405373-001	RW-111	Water	522	7/11/14	7/12/14			

000000

Folder Comments:

## REPORT QUALIFIERS AND DEFINITIONS

- |   |  |
|---|--|
| <p><b>U</b> Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p><b>J</b> Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration &gt;40% difference between two GC columns (pesticides/Aroclors).</p> <p><b>B</b> Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p><b>E</b> Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p><b>E</b> Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p><b>D</b> Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p><b>*</b> Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p><b>H</b> Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p><b>#</b> Spike was diluted out.</p> | <p><b>+</b> Correlation coefficient for MSA is &lt;0.995.</p> <p><b>N</b> Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p><b>N</b> Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p><b>S</b> Concentration has been determined using Method of Standard Additions (MSA).</p> <p><b>W</b> Post-Digestion Spike recovery is outside control limits and the sample absorbance is &lt;50% of the spike absorbance.</p> <p><b>P</b> Concentration &gt;40% (25% for CLP) difference between the two GC columns.</p> <p><b>C</b> Confirmed by GC/MS</p> <p><b>Q</b> DoD reports: indicates a pesticide/Aroclor is not confirmed (<math>\geq 100\%</math> Difference between two GC columns).</p> <p><b>X</b> See Case Narrative for discussion.</p> <p><b>MRL</b> Method Reporting Limit. Also known as:</p> <p><b>LOQ</b> Limit of Quantitation (LOQ)<br/>The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p><b>MDL</b> Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p><b>LOD</b> Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p><b>ND</b> Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p> |
|---|--|



### Rochester Lab ID # for State Certifications<sup>1</sup>

NELAP Accredited	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Connecticut ID # PH0556	Nebraska Accredited	
Delaware Accredited	Nevada ID # NY-00032	North Carolina #676
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047		Virginia #460167

<sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>



# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

16888

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name <b>Auriga</b>		Project Number <b>60280477.00030</b>		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																		
Project Manager <b>Bryan Dahlgren</b>		Report CC		PRESERVATIVE																		
Company Address <b>AECOM</b>		Email		NUMBER OF CONTAINERS	GC/MS VOAs • 8260 • 8274 • CLP • 8270 • 825	GC/MS SV/VOAs • 8021 • 801/802	GC VOAs • 8021 • 801/802	PESTICIDES • 8091 • 808	PCBs • 8082 • 808	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	5221	1,1-DIBOXANE FP	7	PRESERVATIVE KEY							
One Midtown Plaza, 1360 Peachtree St NE Atlanta, GA 30309		Phone # <b>404-965-9657</b>													0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO4 8. Other _____							
Sampler's Signature <b>Randy Morgan</b>		Sampler's Printed Name <b>Randy Morgan</b>		REMARKS/ ALTERNATE DESCRIPTION																		
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE		TIME	MATRIX																	
<b>RW-11</b>		<b>7-11-14</b>		<b>0952</b>	<b>Surface Water</b>																	
SPECIAL INSTRUCTIONS/COMMENTS Metals <b>Standard Turn Around Time</b>				TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day ____ 2 day ____ 3 day ____ 4 day ____ 5 day ____ <b>Standard TAT</b> REQUESTED REPORT DATE _____				REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data Edata ____ Yes ____ No				INVOICE INFORMATION PO # BILL TO:										
STATE WHERE SAMPLES WERE COLLECTED <b>Spartanburg SC</b>				RELINQUISHED BY <b>Randy Morgan</b>				RECEIVED BY <b>Daniel Wisc</b>				RELINQUISHED BY				RECEIVED BY						
Signature <b>Randy Morgan</b>		Signature <b>Daniel Wisc</b>		Signature		Signature		Signature		Signature		Signature		Signature		Signature						
Printed Name <b>AECOM</b>		Printed Name <b>ALS</b>		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name						
Firm <b>AECOM</b>		Firm <b>ALS</b>		Firm		Firm		Firm		Firm		Firm		Firm		Firm						
Date/Time <b>July 11, 2014 1030</b>		Date/Time <b>7/11/14 / 0850</b>		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time						

**R1405373 5**  
 AECOM, Inc.  
 Auriga Spartanburg



# Cooler Receipt and Preservation Check Form

Project/Client AECOM Folder Number NY-5373

Cooler received on 7/12/14 by: dlw

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="checkbox"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="checkbox"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="checkbox"/> N

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y N <u>CNA</u>
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as:	Bulk Encore 5035set <u>NA</u>

8. Temperature Readings Date: 7/12/14 Time: 0920 ID: IR3 IR#4 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>2.5</u>						
Correction Factor (°C)	<u>-0.2</u>						
Corrected Temp (°C)	<u>2.3</u>						
Within 0-6°C?	<input checked="" type="checkbox"/> N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted \_\_\_\_\_ Poorly Packed \_\_\_\_\_ Same Day Rule  
& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval \_\_\_\_\_ Client aware at drop-off \_\_\_\_\_ Client notified by: \_\_\_\_\_

All samples held in storage location: Room by dlw on 7/12/14 at 0920  
5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_

PC Secondary Review: JMS 7/14/14

Cooler Breakdown: Date: 7/14/14 Time: 1202 by: JMS

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact \_\_\_\_\_ Canisters Pressurized \_\_\_\_\_ Tedlar® Bags Inflated N/A

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO <sub>3</sub>								
≤2	H <sub>2</sub> SO <sub>4</sub>								
<4	NaHSO <sub>4</sub>								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

Yes=All samples OK  
No=Samples were preserved at The lab as listed  
PM OK to Adjust: \_\_\_\_\_

\*\*Not to be tested before analysis - pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: dlw  
Other Comments: # pH of 522 samples checked on 7/12/14 @ 0924

PC Secondary Review: JMS 7/17/14 significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.00030  
 Sample Matrix: Water

Service Request: R1405373  
 Date Collected: 7/11/14 0952  
 Date Received: 7/12/14  
 Date Extracted: 7/14/14  
 Date Analyzed: 7/21/14 13:34

Sample Name: RW-111  
 Lab Code: R1405373-001

Units: µg/L  
 Basis: As Received

1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

Analytical Method: 522  
 Prep Method: Method  
 Data File Name: I:\ACQU\DATA\5975E\data\072114\AG288.D\

Analysis Lot: 402729  
 Extraction Lot: 212923  
 Instrument Name: R-MS-56  
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
123-91-1	1,4-Dioxane	0.0998	0.0400	0.0200	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	91	70-130	7/21/14 13:34	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.00030  
 Sample Matrix: Water

Service Request: R1405373  
 Date Collected: NA  
 Date Received: NA  
 Date Extracted: 7/14/14  
 Date Analyzed: 7/21/14 12:19

Sample Name: Method Blank  
 Lab Code: RQ1408065-01

Units: µg/L  
 Basis: As Received

1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

Analytical Method: 522  
 Prep Method: Method  
 Data File Name: I:\ACQUDATA\5975E\data\072114\AG284.D\

Analysis Lot: 402729  
 Extraction Lot: 212923  
 Instrument Name: R-MS-56  
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
123-91-1	1,4-Dioxane	0.0400	U	0.0400	0.0200	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	103	70-130	7/21/14 12:19	

QA/QC Report

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.00030  
 Sample Matrix: Water

Service Request: R1405373  
 Date Collected: 7/11/14  
 Date Received: 7/12/14  
 Date Analyzed: 7/21/14

**Matrix Spike Summary**  
**1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring**

Sample Name: RW-111  
 Lab Code: R1405373-001

Units: µg/L  
 Basis: As Received

Analytical Method: 522  
 Prep Method: Method

Analyte Name	Sample Result	Result	RW-111MS Matrix Spike RQ1408065-05		RW-111DMS Duplicate Matrix Spike RQ1408065-06		% Rec	% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec	Result	Spike Amount				
1,4-Dioxane	0.0998	7.55	9.94	75	8.76	9.94	87	70 - 130	15	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.00030  
 Sample Matrix: Water

Service Request: R1405373  
 Date Analyzed: 7/21/14

**Lab Control Sample Summary**  
**1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring**

Analytical Method: 522  
 Prep Method: Method

Units: µg/L  
 Basis: As Received

Extraction Lot: 212923

Analyte Name	Lab Control Sample RQ1408065-02			Duplicate Lab Control Sample RQ1408065-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,4-Dioxane	8.65	9.94	87	8.98	9.94	90	70 - 130	4	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.00030  
 Sample Matrix: Water

Service Request: R1405373  
 Date Analyzed: 7/21/14

**Lab Control Sample Summary**  
**1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring**

Analytical Method: 522  
 Prep Method: Method

Units: µg/L  
 Basis: As Received  
 Extraction Lot: 212923

**Lab Control Sample**  
 RQ1408065-04

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,4-Dioxane	0.0430	0.0397	108	70 - 130

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



July 23, 2014

Service Request No: R1405373

Mr. Bryon Dahlgren  
AECOM, Inc.  
1360 Peachtree Street NE  
Suite 500  
Atlanta, GA 30309

**Laboratory Results for: Auriga Spartanburg/60280417.00030**

Dear Mr. Dahlgren:

Enclosed are the results of the sample(s) submitted to our laboratory on July 12, 2014. For your reference, these analyses have been assigned our service request number **R1405373**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at [Janice.Jaeger@alsglobal.com](mailto:Janice.Jaeger@alsglobal.com).

Respectfully submitted,

**ALS Group USA Corp. dba ALS Environmental**

Janice Jaeger  
Client Services Manager

Page 1 of 86





## SDG NARRATIVE

**ALS Environmental - Rochester, NY**  
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Environmental

Client: AECOM  
Project: Auriga Spartanburg  
Sample Matrix: Water

Service Request No.: R1405373  
Date Received: 07/12/14

CASE NARRATIVE – Page 1

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS/DLCS).

**Sample Receipt**

One sample was received for analysis at ALS Rochester on 07/12/14. The samples were received consistent with the accompanying chain of custody form. All samples were received within the appropriate temperature guidelines and in good condition. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

**1,4-Dioxane by Method 522**

The Initial Calibration (ICAL), Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) criteria were met for all samples.

All surrogate standard recoveries were within acceptable limits.

All internal standard recoveries were within acceptable limits.

Site QC was not requested; however was performed. All Matrix Spike/Matrix Spike Duplicate (MS/MSD) and Laboratory Control Sample (LCS) and LCS Duplicate (LCSD) recoveries were acceptable. RPD's were within QC acceptance limits.

All Method Blanks were free of contamination.

The samples were extracted and analyzed within the appropriate holding times.

No other analytical or quality control problems were encountered during analysis.

### ALS ASP/CLP Batching Form/Login Sheet

Client Proj #: 60280417.00030	Batch Complete: Yes	Date Revised:
Submission: R1405373	Diskette Requested: No	Date Due: 8/4/14
Client: AECOM, Inc.	Date: 7/14/14	Protocol: EPA
Client Rep: JJAEGER	Custody Seal: Present/Absent:	Shipping No.:
Project: Auriga Spartanburg	Chain of Custody: Present/Absent:	SDG #:

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1405373-001	RW-111	Water	522	7/11/14	7/12/14			

10000

Folder Comments:



**REPORT QUALIFIERS AND DEFINITIONS**

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.
- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)  
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



**Rochester Lab ID # for State Certifications<sup>1</sup>**

NELAP Accredited	Maine ID #NY0032	New Hampshire ID #
Connecticut ID # PH0556	Nebraska Accredited	294100 A/B
Delaware Accredited	Nevada ID # NY-00032	North Carolina #676
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047		Virginia #460167

<sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>



# CHAINS OF CUSTODY

**ALS Environmental - Rochester, NY**  
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS | RIGHT PARTNER









# Cooler Receipt and Preservation Check Form

Project/Client AECOM Folder Number NY-5393

Cooler received on 7/12/14 by: dlw

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="checkbox"/>	N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="checkbox"/>	N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/>	N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="checkbox"/>	N

5a	Perchlorate samples have required headspace?	Y	N	<u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y	N	<u>NA</u>
6	Where did the bottles originate?	<u>ALS/ROC</u>	CLIENT	
7	Soil VOA received as:	Bulk	Encore	5035set <u>NA</u>

8. Temperature Readings Date: 7/12/14 Time: 0920 ID: IR#3 IR#4 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>2.5</u>						
Correction Factor (°C)	<u>-0.2</u>						
Corrected Temp (°C)	<u>2.3</u>						
Within 0-6°C?	<input checked="" type="checkbox"/> N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted \_\_\_\_\_ Poorly Packed \_\_\_\_\_ Same Day Rule \_\_\_\_\_  
& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval \_\_\_\_\_ Client aware at drop-off \_\_\_\_\_ Client notified by: \_\_\_\_\_

All samples held in storage location: Room by dlw on 7/12/14 at 0920  
5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_

PC Secondary Review: JMS 7/14/14

Cooler Breakdown: Date: 7/14/14 Time: 1207 by: JMS

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact \_\_\_\_\_ Canisters Pressurized \_\_\_\_\_ Tedlar® Bags Inflated NA

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO <sub>3</sub>								
≤2	H <sub>2</sub> SO <sub>4</sub>								
<4	NaHSO <sub>4</sub>								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

Yes=All samples OK  
No=Samples were preserved at The lab as listed  
PM OK to Adjust: \_\_\_\_\_

\*\*Not to be tested before analysis - pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: dmk  
Other Comments: ± pH of 522 samples checked on 7/12/14 @ 0924

PC Secondary Review: JMS 7/17/14 significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



**ALS ENVIRONMENTAL**  
**Chain of Custody Report**

**Client:** AECOM, Inc.  
**Project:** Auriga Spartanburg/60280417.00030

**Service Request:** R1405373

<b>Bottle ID</b>	<b>Tests</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
R1405373-001.01	522	7/14/14	1203	SMO / JSEWARD	
		7/14/14	1203	R-002 / JSEWARD	
R1405373-001.02		7/14/14	1203	SMO / JSEWARD	
		7/14/14	1203	R-002 / JSEWARD	





# 1,4-DIOXANE QC SUMMARY

ALS Environmental - Rochester, NY  
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.00030  
 Sample Matrix: Water

Service Request: R1405373  
 Date Collected: 7/11/14  
 Date Received: 7/12/14  
 Date Analyzed: 7/21/14

**Matrix Spike Summary**  
**1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring**

Sample Name: RW-111  
 Lab Code: R1405373-001  
 Analytical Method: 522  
 Prep Method: Method

Units: µg/L  
 Basis: As Received

Analyte Name	Sample Result	RW-111MS Matrix Spike RQ1408065-05			RW-111DMS Duplicate Matrix Spike RQ1408065-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,4-Dioxane	0.0998	7.55	9.94	75	8.76	9.94	87	70 - 130	15	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.00030  
 Sample Matrix: Water

Service Request: R1405373  
 Date Analyzed: 7/21/14

Lab Control Sample Summary  
 1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

Analytical Method: 522  
 Prep Method: Method

Units: µg/L  
 Basis: As Received

Extraction Lot: 212923

Analyte Name	Lab Control Sample RQ1408065-02			Duplicate Lab Control Sample RQ1408065-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,4-Dioxane	8.65	9.94	87	8.98	9.94	90	70 - 130	4	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: AECOM, Inc.  
Project: Auriga Spartanburg/60280417.00030  
Sample Matrix: Water

Service Request: R1405373  
Date Analyzed: 7/21/14

Lab Control Sample Summary  
1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

Analytical Method: 522  
Prep Method: Method

Units: µg/L  
Basis: As Received  
Extraction Lot: 212923

Lab Control Sample  
RQ1408065-04

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,4-Dioxane	0.0430	0.0397	108	70 - 130

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

**Client:** AECOM, Inc.  
**Project:** Auriga Spartanburg/60280417.00030  
**Sample Matrix:** Water

**Service Request:** R1405373  
**Date Analyzed:** 7/21/14 12:19  
**Date Extracted:** 7/14/14

**Method Blank Summary**  
**1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring**

**Sample Name:** Method Blank                      **Instrument ID:** R-MS-56  
**Lab Code:** RQ1408065-01                      **File ID:** I:\ACQUADATA\5975E\data\072114\AG284.D\  
**Analytical Method:** 522  
**Prep Method:** Method

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1408065-02	I:\ACQUADATA\5975E\data\072114\AG285.D\	7/21/14 12:38
Duplicate Lab Control Sample	RQ1408065-03	I:\ACQUADATA\5975E\data\072114\AG286.D\	7/21/14 12:57
Lab Control Sample	RQ1408065-04	I:\ACQUADATA\5975E\data\072114\AG287.D\	7/21/14 13:15
RW-111	R1405373-001	I:\ACQUADATA\5975E\data\072114\AG288.D\	7/21/14 13:34
RW-111MS	RQ1408065-05	I:\ACQUADATA\5975E\data\072114\AG289.D\	7/21/14 13:52
RW-111DMS	RQ1408065-06	I:\ACQUADATA\5975E\data\072114\AG290.D\	7/21/14 14:11

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: AECOM, Inc.  
Project: Auriga Spartanburg/60280417.00030

Service Request: R1405373  
Date Analyzed: 7/18/14 12:27

Tune Summary  
1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

File ID: I:\ACQUDATA\5975E\data\071814\AG233.D\  
Instrument ID: R-MS-56

Analytical Method: 522  
Analysis Lot: 402729

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
173	174	0	2	0.00	0	Pass
174	95	50	120	84.48	62536	Pass
175	174	5	9	8.48	5305	Pass
176	174	95	101	98.20	61411	Pass
177	176	5	9	7.85	4818	Pass
50	95	15	40	17.73	13122	Pass
75	95	30	60	48.33	35773	Pass
95	95	100	100	100.00	74021	Pass
96	95	5	9	7.58	5613	Pass

Sample Name	Lab Code	File ID	Date Analyzed	Q
STD 1	2 ppb STD	I:\ACQUDATA\5975E\data\071814\AG235.D\	7/18/14 13:11	
STD 2	10 ppb STD	I:\ACQUDATA\5975E\data\071814\AG236.D\	7/18/14 13:30	
STD 3	20 ppb STD	I:\ACQUDATA\5975E\data\071814\AG237.D\	7/18/14 13:49	
STD 4	100 ppb STD	I:\ACQUDATA\5975E\data\071814\AG238.D\	7/18/14 14:08	
STD 5	200 ppb STD	I:\ACQUDATA\5975E\data\071814\AG239.D\	7/18/14 14:26	
STD 6	500 ppb STD	I:\ACQUDATA\5975E\data\071814\AG240.D\	7/18/14 14:44	
STD 7	1000 ppb STD	I:\ACQUDATA\5975E\data\071814\AG241.D\	7/18/14 15:02	
STD 8	5000 ppb STD	I:\ACQUDATA\5975E\data\071814\AG242.D\	7/18/14 15:20	



ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: AECOM, Inc.  
Project: Auriga Spartanburg/60280417.00030

Service Request: R1405373  
Date Analyzed: 7/21/14 07:35

Tune Summary  
1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

File ID: I:\ACQUDATA\5975E\data\072114\AG269.D\  
Instrument ID: R-MS-56

Analytical Method: 522  
Analysis Lot: 402729

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
173	174	0	2	0.71	414	Pass
174	95	50	120	81.99	58483	Pass
175	174	5	9	8.65	5061	Pass
176	174	95	101	97.14	56811	Pass
177	176	5	9	7.84	4456	Pass
50	95	15	40	17.88	12751	Pass
75	95	30	60	48.06	34285	Pass
95	95	100	100	100.00	71331	Pass
96	95	5	9	7.33	5230	Pass

Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1408460-02	I:\ACQUDATA\5975E\data\072114\AG270.D\	7/21/14 07:58	
Continuing Cal. VerificationCCVA	RQ1408460-03	I:\ACQUDATA\5975E\data\072114\AG281.D\	7/21/14 11:24	
Method Blank	RQ1408065-01	I:\ACQUDATA\5975E\data\072114\AG284.D\	7/21/14 12:19	
Lab Control Sample	RQ1408065-02	I:\ACQUDATA\5975E\data\072114\AG285.D\	7/21/14 12:38	
Duplicate Lab Control Sample	RQ1408065-03	I:\ACQUDATA\5975E\data\072114\AG286.D\	7/21/14 12:57	
Lab Control Sample	RQ1408065-04	I:\ACQUDATA\5975E\data\072114\AG287.D\	7/21/14 13:15	
RW-111	R1405373-001	I:\ACQUDATA\5975E\data\072114\AG288.D\	7/21/14 13:34	
RW-111MS	RQ1408065-05	I:\ACQUDATA\5975E\data\072114\AG289.D\	7/21/14 13:52	
RW-111DMS	RQ1408065-06	I:\ACQUDATA\5975E\data\072114\AG290.D\	7/21/14 14:11	
Continuing Cal. VerificationCCVB	RQ1408460-04	I:\ACQUDATA\5975E\data\072114\AG291.D\	7/21/14 14:29	
Continuing Cal. VerificationCCVA	RQ1408460-05	I:\ACQUDATA\5975E\data\072114\AG301.D\	7/21/14 17:35	

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.00030

Service Request: R1405373  
 Date Analyzed: 7/21/14 07:58

Internal Standard Area and RT Summary  
 1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

File ID: I:\ACQUADATA\5975E\data\072114\AG270.D\  
 Instrument ID: R-MS-56  
 Analytical Method: 522

Lab Code: RQ1408460-02  
 Analysis Lot: 402729  
 Signal ID:

	Tetrahydrofuran-d8	
	Area	RT
Results ==>	62,168	3.06
Upper Limit ==>	80,818	3.56
Lower Limit ==>	43,518	2.56
ICAL Result ==>		

Associated Analyses

		Area	RT
Continuing Cal. Verification	RQ1408460-03	62,564	3.04
Method Blank	RQ1408065-01	58,147	3.05
Lab Control Sample	RQ1408065-02	62,586	3.05
Duplicate Lab Control Sample	RQ1408065-03	64,257	3.05
Lab Control Sample	RQ1408065-04	55,340	3.06
RW-111	R1405373-001	67,810	3.06
RW-111MS	RQ1408065-05	61,880	3.04
RW-111DMS	RQ1408065-06	58,944	3.06
Continuing Cal. Verification	RQ1408460-04	56,078	3.03
Continuing Cal. Verification	RQ1408460-05	59,689	3.03

Results flagged with an asterisk (\*) indicate values outside control criteria.



# 1,4-DIOXANE SAMPLE DATA

**ALS Environmental - Rochester, NY**  
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.00030  
 Sample Matrix: Water

Service Request: R1405373  
 Date Collected: 7/11/14 0952  
 Date Received: 7/12/14  
 Date Extracted: 7/14/14  
 Date Analyzed: 7/21/14 13:34

Sample Name: RW-111  
 Lab Code: R1405373-001

Units: µg/L  
 Basis: As Received

1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

Analytical Method: 522  
 Prep Method: Method  
 Data File Name: I:\ACQUDATA\5975E\data\072114\AG288.D\

Analysis Lot: 402729  
 Extraction Lot: 212923  
 Instrument Name: R-MS-56  
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
123-91-1	1,4-Dioxane	0.0998		0.0400	0.0200	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	91	70-130	7/21/14 13:34	

Data Path : I:\ACQUDATA\5975E\data\072114\  
 Data File : AG288.D  
 Acq On : 21 Jul 2014 1:34 pm  
 Operator : j.misiurewicz  
 Sample : R1405373-001|1.0  
 Misc : 07/14/14 522 DIOX  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 21 14:07:48 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Jul 18 15:58:33 2014  
 Response via : Initial Calibration

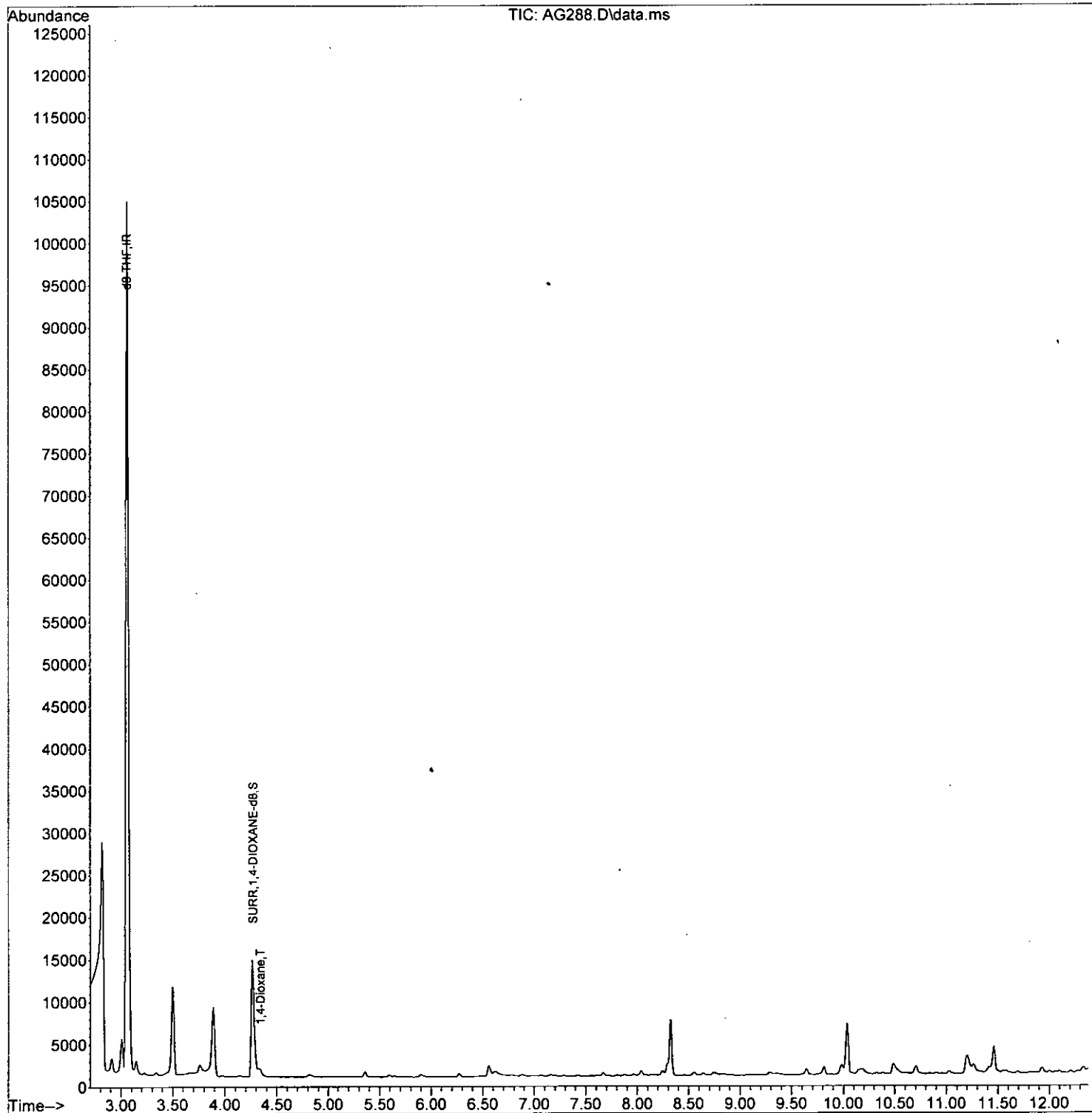
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	3.057	46	67810	500.00	PPB	0.00
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	4.271	96	14073	90.88	PPB	0.00
Spiked Amount	100.000	Range	70 - 130	Recovery	=	90.88%
Target Compounds						
2) 1,4-Dioxane	4.343	88	1022	4.99	PPB	Qvalue 94
-----						

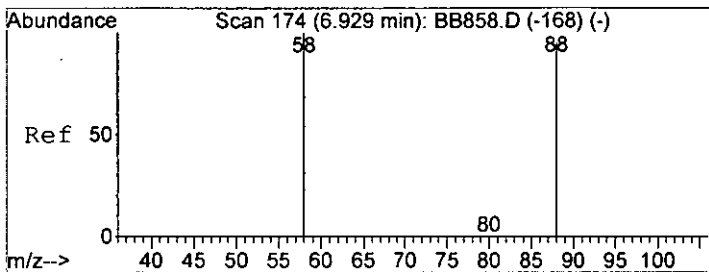
*09  
7/21/14*

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\072114\  
Data File : AG288.D  
Acq On : 21 Jul 2014 1:34 pm  
Operator : j.misiurewicz  
Sample : R1405373-001|1.0  
Misc : 07/14/14 522 DIOX  
ALS Vial : 22 Sample Multiplier: 1

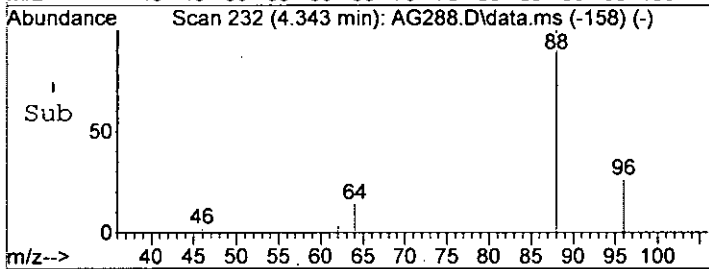
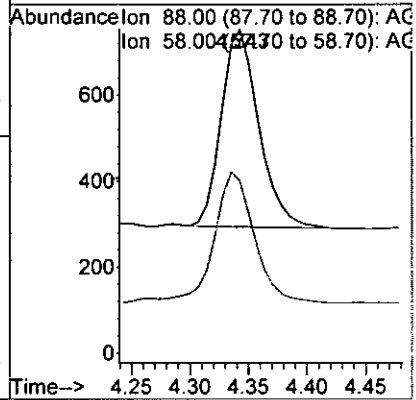
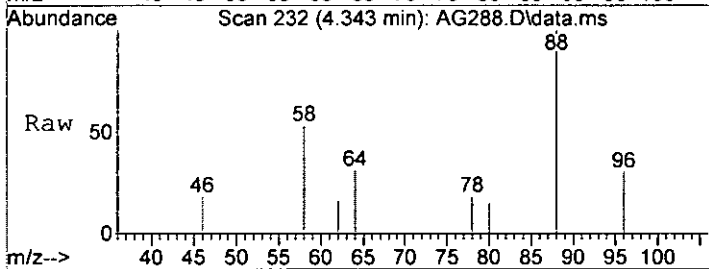
Quant Time: Jul 21 14:07:48 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:58:33 2014  
Response via : Initial Calibration





#2  
 1,4-Dioxane  
 Concen: 4.99 PPB  
 RT: 4.343 min Scan# 232  
 Delta R.T. 0.027 min  
 Lab File: AG288.D  
 Acq: 21 Jul 2014 1:34 pm

Tgt Ion: 88 Resp: 1022  
 Ion Ratio Lower Upper  
 88 100  
 58 59.4 44.2 84.2





# 1,4-DIOXANE STANDARDS DATA

**ALS Environmental - Rochester, NY**  
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



Method Path : I:\ACQUDATA\5975E\METHODS\  
 Method File : SDIOX071814.M  
 Title : 8270 BNA ANALYSIS  
 Last Update : Fri Jul 18 15:58:33 2014  
 Response Via : Initial Calibration

Calibration Files

2 =AG235.D 10 =AG236.D 20 =AG237.D 100 =AG238.D 200 =AG239.D 500 =AG240.D 1000=AG241.D 5000=AG242.D

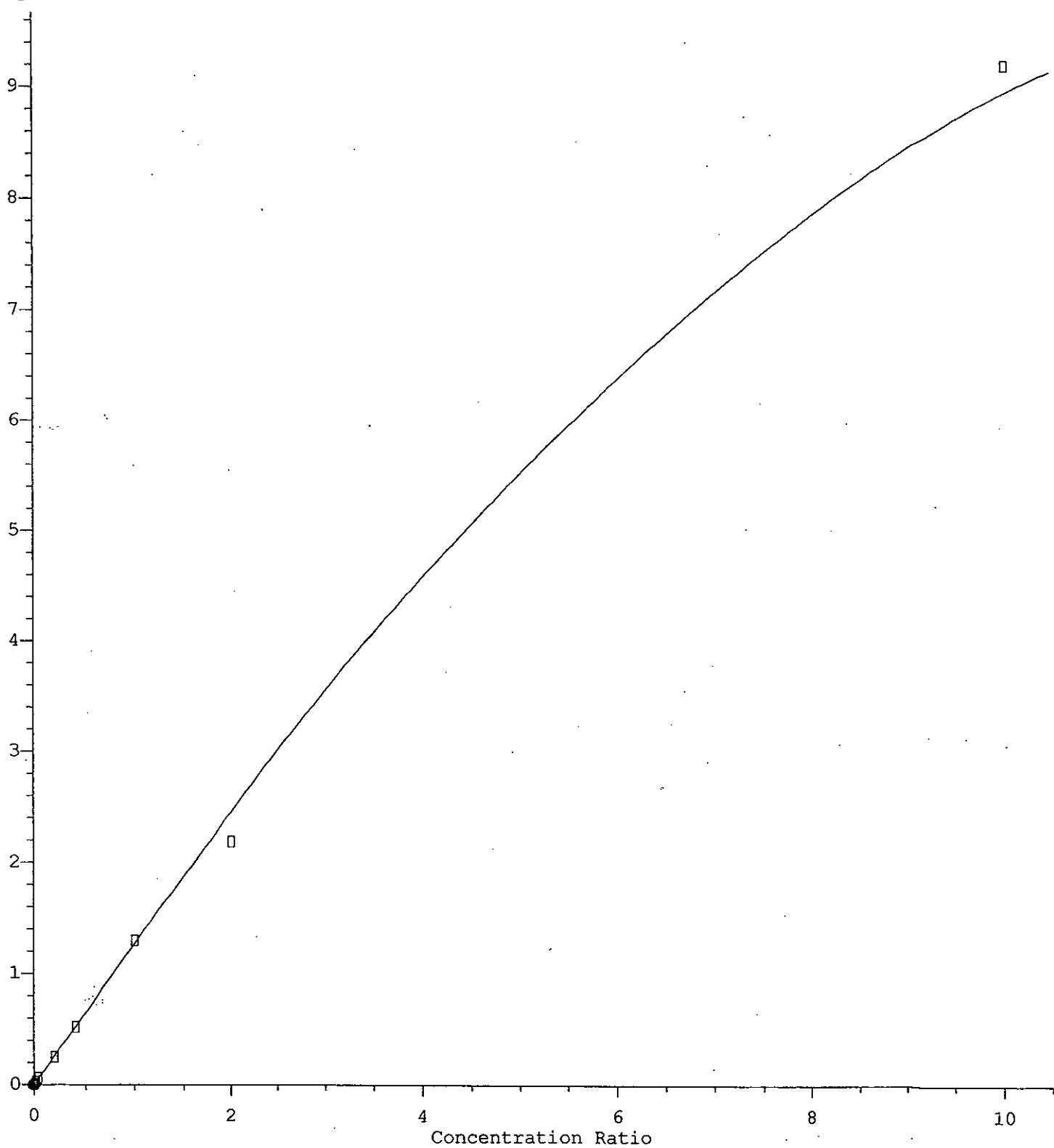
Compound	2	10	20	100	200	500	1000	5000	Avg	%RSD
-----ISTD-----										
1) IR d8-THF										
2) T 1,4-Dioxane	1.801	1.345	1.571	1.255	1.299	1.297	1.094	0.921	1.323	20.41
3) S SURR,1,4-DIOXA...	1.356	1.218	1.347	1.135	1.076	1.073	0.941	0.772	1.115	17.74

*DM*  
*7/18/14*

(#) = Out of Range

00024

Response Ratio



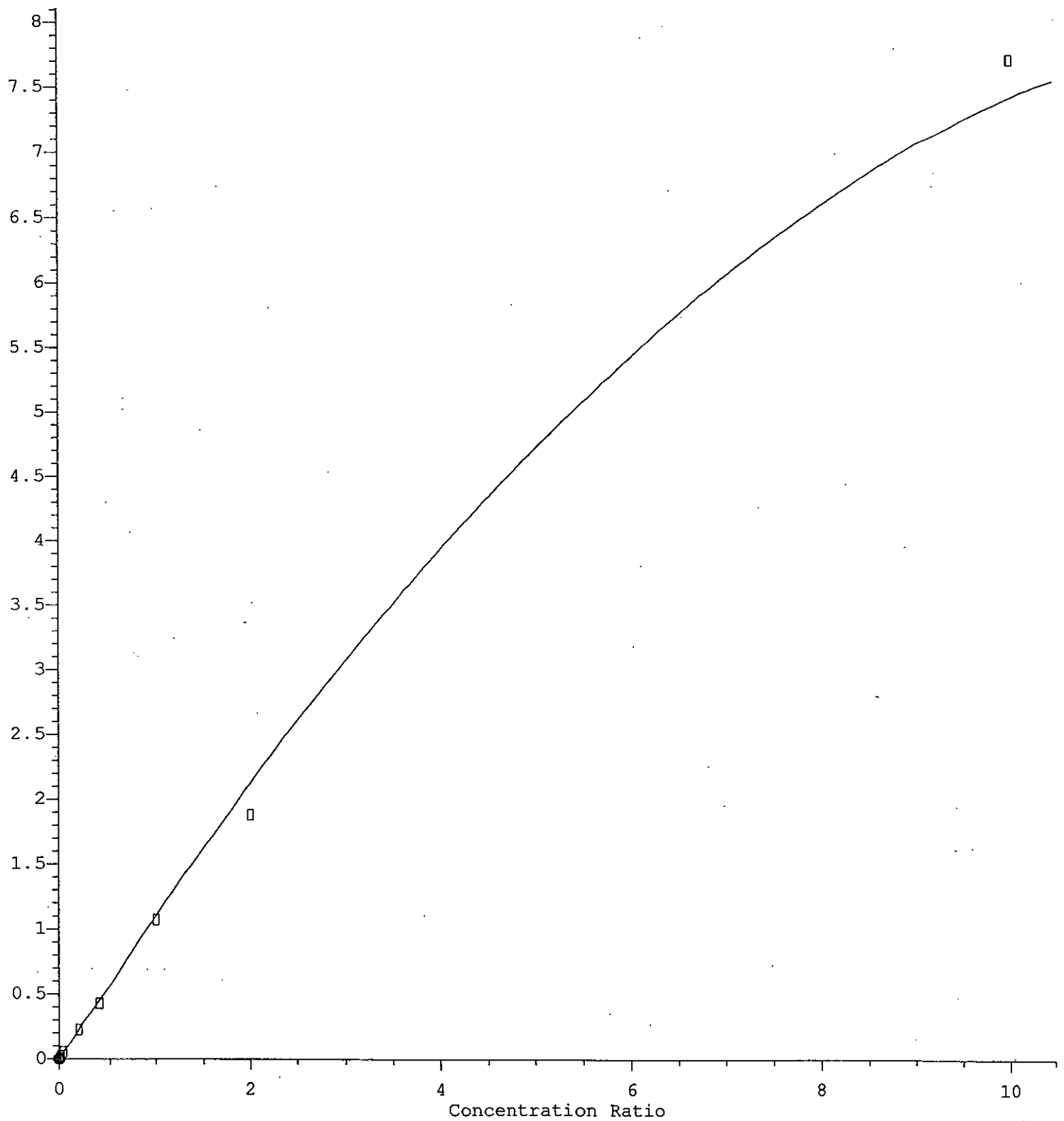
AM  
7/18/14

$R = -4.15e-002 A^2 + 1.31e+000 A + 1.99e-003$   
Coef of Det ( $r^2$ ) = 0.992 Curve Fit: Quadratic w( $1/a^2$ )  
Method Name: I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Calibration Table Last Updated: Fri Jul 18 15:58:33 2014

00025

Lab Code	Type	Standard Amount	Calculated Conc	Difference
RC1400059-01	ICAL	2.000	1.9893	-0.54
RC1400059-02	ICAL	10.000	9.5063	-4.94
RC1400059-03	ICAL	20.000	23.250	16.25
RC1400059-04	ICAL	100.000	95.588	-4.41
RC1400059-05	ICAL	200.000	200.07	0.03
RC1400059-06	ICAL	500.000	510.61	2.12
RC1400059-07	ICAL	1000.000	883.19	-11.68
RC1400059-08	ICAL	5000.000	5269.9	5.40

Response Ratio



*Handwritten signature*  
7/18/14

$y = -4.01e-002 A^2 + 1.14e+000 A + 9.39e-004$   
Coef of Det ( $r^2$ ) = 0.993 Curve Fit: Quadratic w( $1/a^2$ )  
Method Name: I:\ACQU\5975E\METHODS\SDIOX071814.M  
Calibration Table Last Updated: Fri Jul 18 15:58:33 2014

00027

Lab Code	Type	Standard Amount	Calculated Conc	Difference
RC1400059-01	ICAL	2.000	1.9603	-1.98
RC1400059-02	ICAL	10.000	10.246	2.46
RC1400059-03	ICAL	20.000	23.172	15.86
RC1400059-04	ICAL	100.000	99.455	-0.54
RC1400059-05	ICAL	200.000	190.29	-4.85
RC1400059-06	ICAL	500.000	484.88	-3.02
RC1400059-07	ICAL	1000.000	875.85	-12.41
RC1400059-08	ICAL	5000.000	5485.7	9.71

Data Path : I:\ACQUDATA\5975E\data\071814\  
Data File : AG235.D  
Acq On : 18 Jul 2014 1:11 pm  
Operator : j.misiurewicz  
Sample : STD 1  
Misc : 2 ppb STD 522/8270D  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 18 15:57:12 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:56:03 2014  
Response via : Initial Calibration

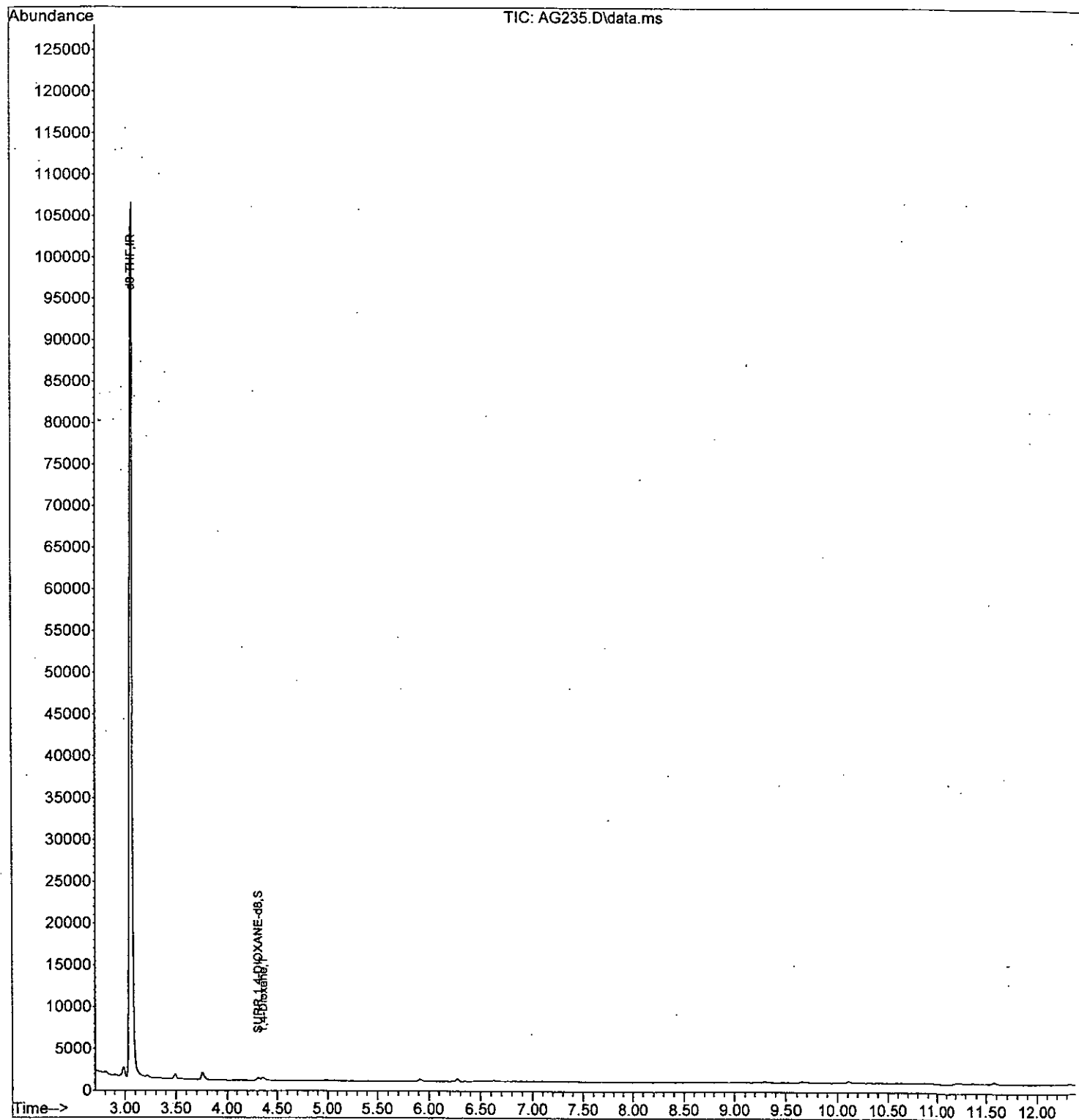
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) d8-THF	3.049	46	70249	500.00	PPB	0.00
System Monitoring Compounds						
3) SURR, 1,4-DIOXANE-d8	4.307	96	381	1.96	PPB	0.04
Spiked Amount	100.000	Range	70 - 130	Recovery	=	1.96%#
Target Compounds						
2) 1,4-Dioxane	4.357	88	506	1.99	PPB	88
-----						

*AM*  
*7/18/14*

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\071814\  
Data File : AG235.D  
Acq On : 18 Jul 2014 1:11 pm  
Operator : j.misiurewicz  
Sample : STD 1  
Misc : 2 ppb STD 522/8270D  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 18 15:57:12 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:56:03 2014  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5975E\data\071814\  
 Data File : AG236.D  
 Acq On : 18 Jul 2014 1:30 pm  
 Operator : j.misiurewicz  
 Sample : STD 2  
 Misc : 10 ppb STD 522/8270D  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 18 15:57:14 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Jul 18 15:56:03 2014  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
Internal Standards						
1) d8-THF	3.078	46	75604	500.00	PPB	0.02
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	4.307	96	1842	10.25	PPB	0.04
Spiked Amount	100.000	Range	70 - 130	Recovery	=	10.25%#
Target Compounds						
2) 1,4-Dioxane	4.364	88	2033	9.51	PPB	Qvalue 88
-----						

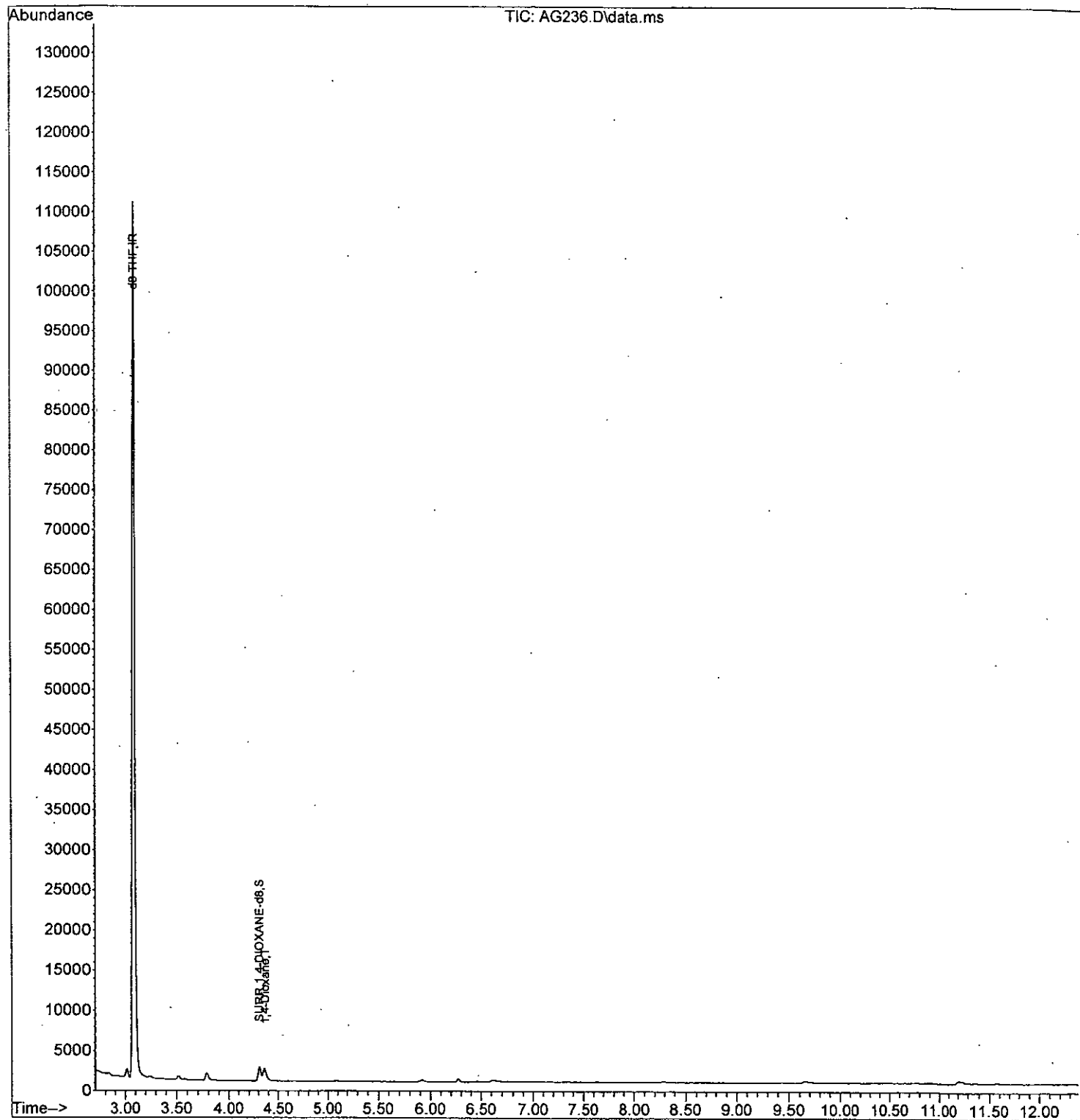
*AM*  
*7/18/14*

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\5975E\data\071814\  
Data File : AG236.D  
Acq On : 18 Jul 2014 1:30 pm  
Operator : j.misiurewicz  
Sample : STD 2  
Misc : 10 ppb STD 522/8270D  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 18 15:57:14 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:56:03 2014  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5975E\data\071814\  
 Data File : AG237.D  
 Acq On : 18 Jul 2014 1:49 pm  
 Operator : j.misiurewicz  
 Sample : STD 3  
 Misc : 20 ppb STD 522/8270D  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 18 15:57:16 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Jul 18 15:56:03 2014  
 Response via : Initial Calibration

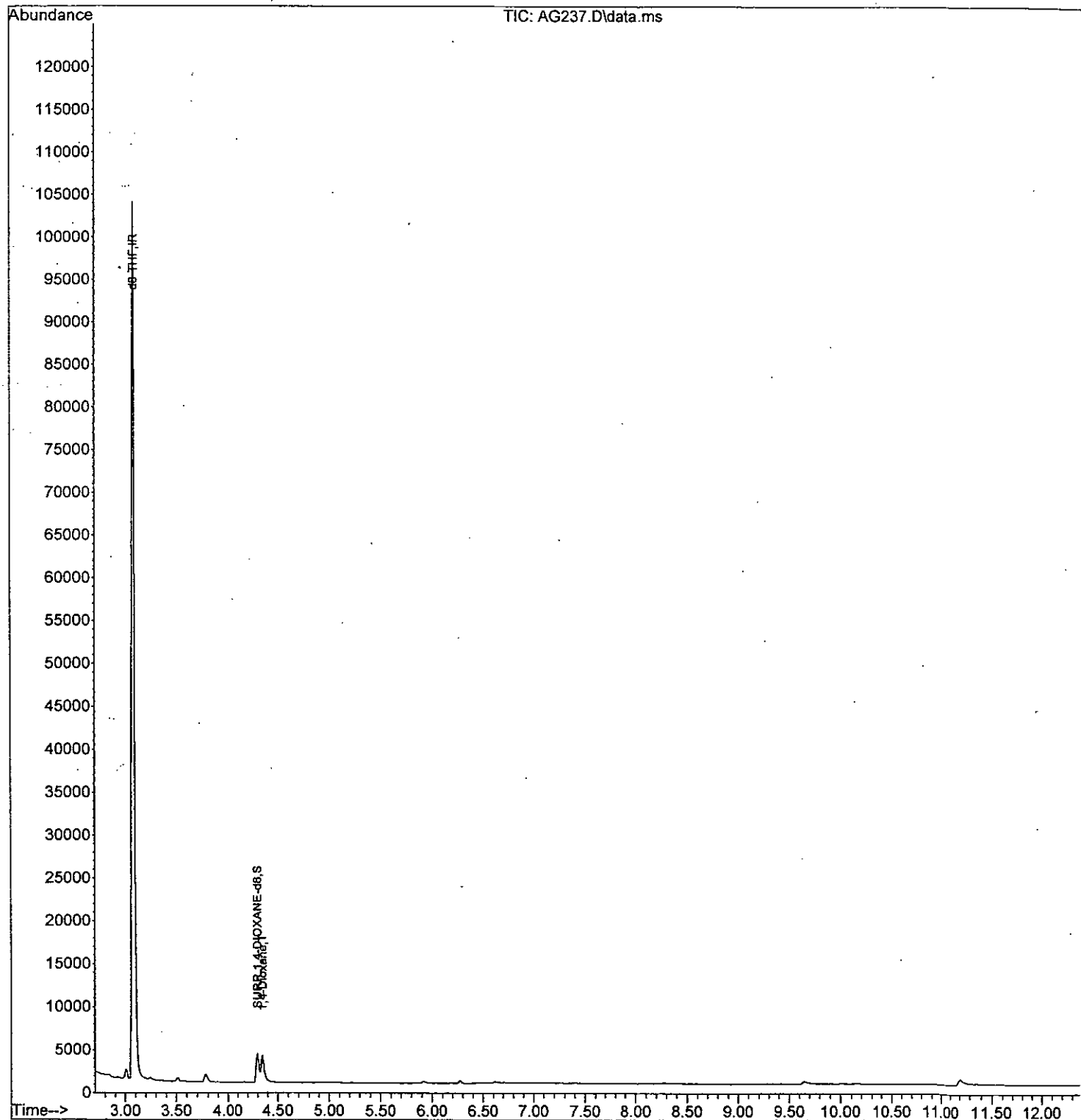
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	3.078	46	64915	500.00	PPB	0.02
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	4.300	96	3497	23.17	PPB	0.04
Spiked Amount	100.000	Range	70 - 130	Recovery	=	23.17%#
Target Compounds						
2) 1,4-Dioxane	4.349	88	4079	23.25	PPB	Qvalue 98
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

OK  
7/18/14

Data Path : I:\ACQUDATA\5975E\data\071814\  
Data File : AG237.D  
Acq On : 18 Jul 2014 1:49 pm  
Operator : j.misiurewicz  
Sample : STD 3  
Misc : 20 ppb STD 522/8270D  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 18 15:57:16 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:56:03 2014  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5975E\data\071814\  
 Data File : AG238.D  
 Acq On : 18 Jul 2014 2:08 pm  
 Operator : j.misiurewicz  
 Sample : STD 4  
 Misc : 100 ppb STD 522/8270D  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 18 15:57:18 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Jul 18 15:56:03 2014  
 Response via : Initial Calibration

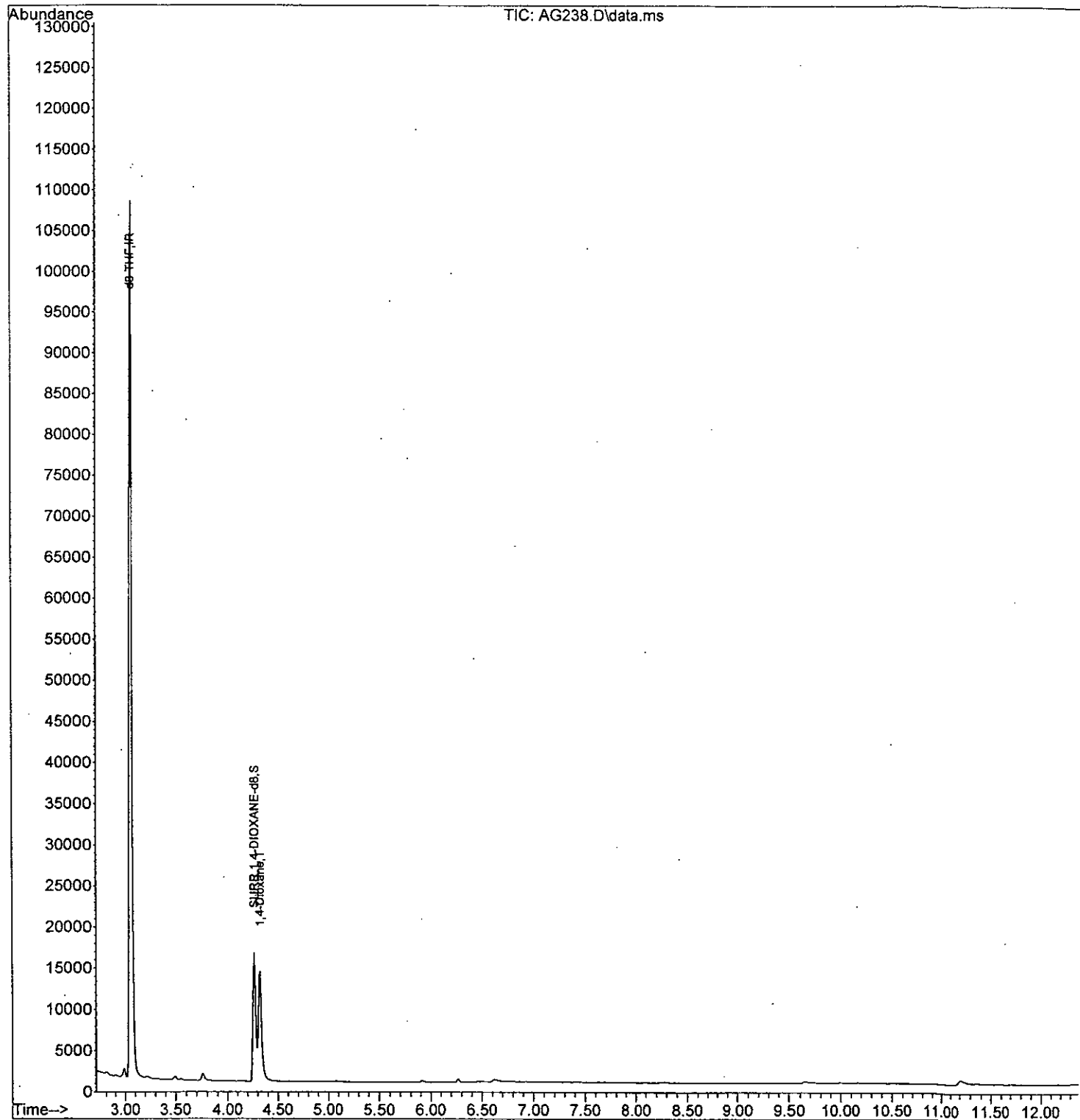
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	3.049	46	69135	500.00	PPB	0.00
System Monitoring Compounds						
3) SURR, 1,4-DIOXANE-d8	4.264	96	15687	99.46	PPB	0.00
Spiked Amount	100.000	Range	70 - 130	Recovery	=	99.46%
Target Compounds						
2) 1,4-Dioxane	4.321	88	17353	95.59	PPB	Qvalue 94
-----						

*DM*  
*7/18/14*

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\071814\  
Data File : AG238.D  
Acq On : 18 Jul 2014 2:08 pm  
Operator : j.misiurewicz  
Sample : STD 4  
Misc : 100 ppb STD 522/8270D  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 18 15:57:18 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:56:03 2014  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5975E\data\071814\  
Data File : AG239.D  
Acq On : 18 Jul 2014 2:26 pm  
Operator : j.misiurewicz  
Sample : STD 5  
Misc : 200 ppb STD 522/8270D  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 18 15:57:20 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:56:03 2014  
Response via : Initial Calibration

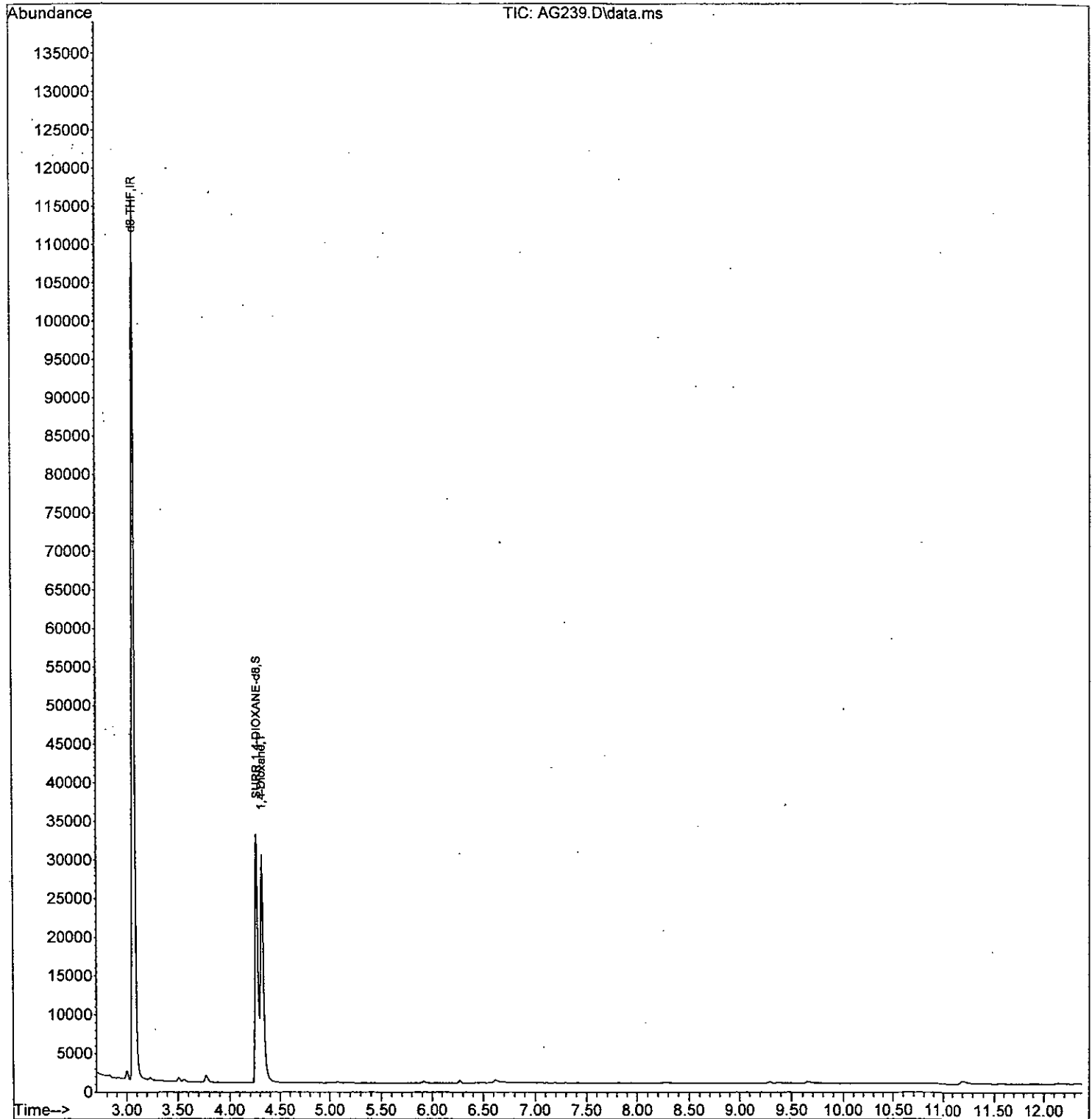
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	3.064	46	71128	500.00	PPB	0.00
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	4.271	96	30622	190.29	PPB	0.00
Spiked Amount	100.000	Range	70 - 130	Recovery	= 190.29%#	
Target Compounds						
2) 1,4-Dioxane	4.321	88	36966	200.07	PPB	Qvalue 100
-----						

OK  
7/18/14

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\071814\  
Data File : AG239.D  
Acq On : 18 Jul 2014 2:26 pm  
Operator : j.misiurewicz  
Sample : STD 5  
Misc : 200 ppb STD 522/8270D  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 18 15:57:20 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:56:03 2014  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5975E\data\071814\  
Data File : AG240.D  
Acq On : 18 Jul 2014 2:44 pm  
Operator : j.misiurewicz  
Sample : STD 6  
Misc : 500 ppb STD 522/8270D  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 18 15:57:22 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:56:03 2014  
Response via : Initial Calibration

OM  
7/18/14

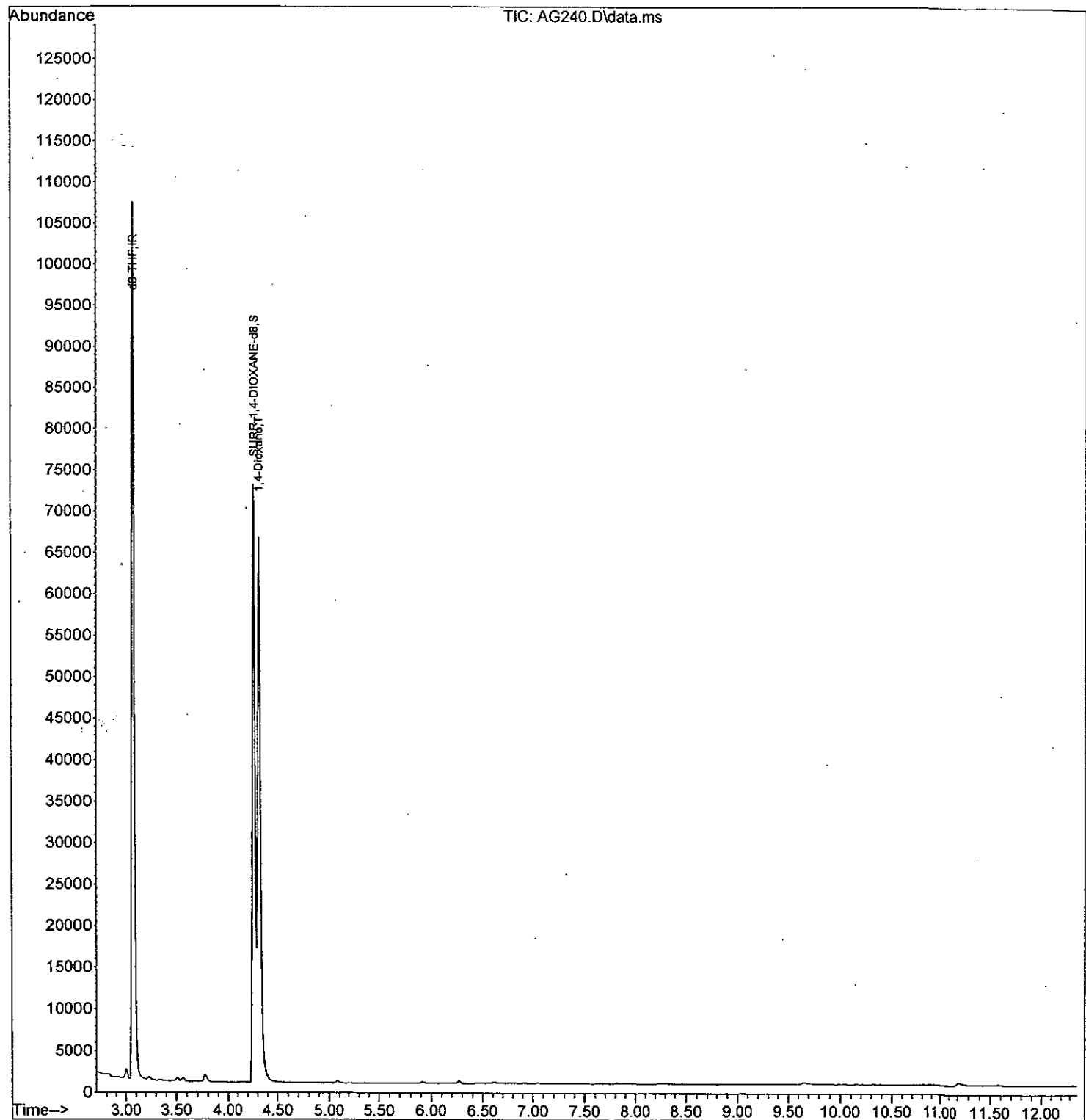
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	3.070	46	63286	500.00	PPB	0.01
System Monitoring Compounds.						
3) SURR, 1,4-DIOXANE-d8	4.264	96	67881	484.88	PPB	0.00
Spiked Amount. 100.000	Range	70 - 130	Recovery	=	484.88%#	
Target Compounds						
2) 1,4-Dioxane	4.314	88	82083	510.61	PPB	Qvalue 99
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\5975E\data\071814\  
Data File : AG240.D  
Acq On : 18 Jul 2014 2:44 pm  
Operator : j.misiurewicz  
Sample : STD 6  
Misc : 500 ppb STD 522/8270D  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 18 15:57:22 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:56:03 2014  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5975E\data\071814\  
Data File : AG241.D  
Acq On : 18 Jul 2014 3:02 pm  
Operator : j.misiurewicz  
Sample : STD 7  
Misc : 1000 ppb STD 522/8270D  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 18 15:57:24 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:56:03 2014  
Response via : Initial Calibration

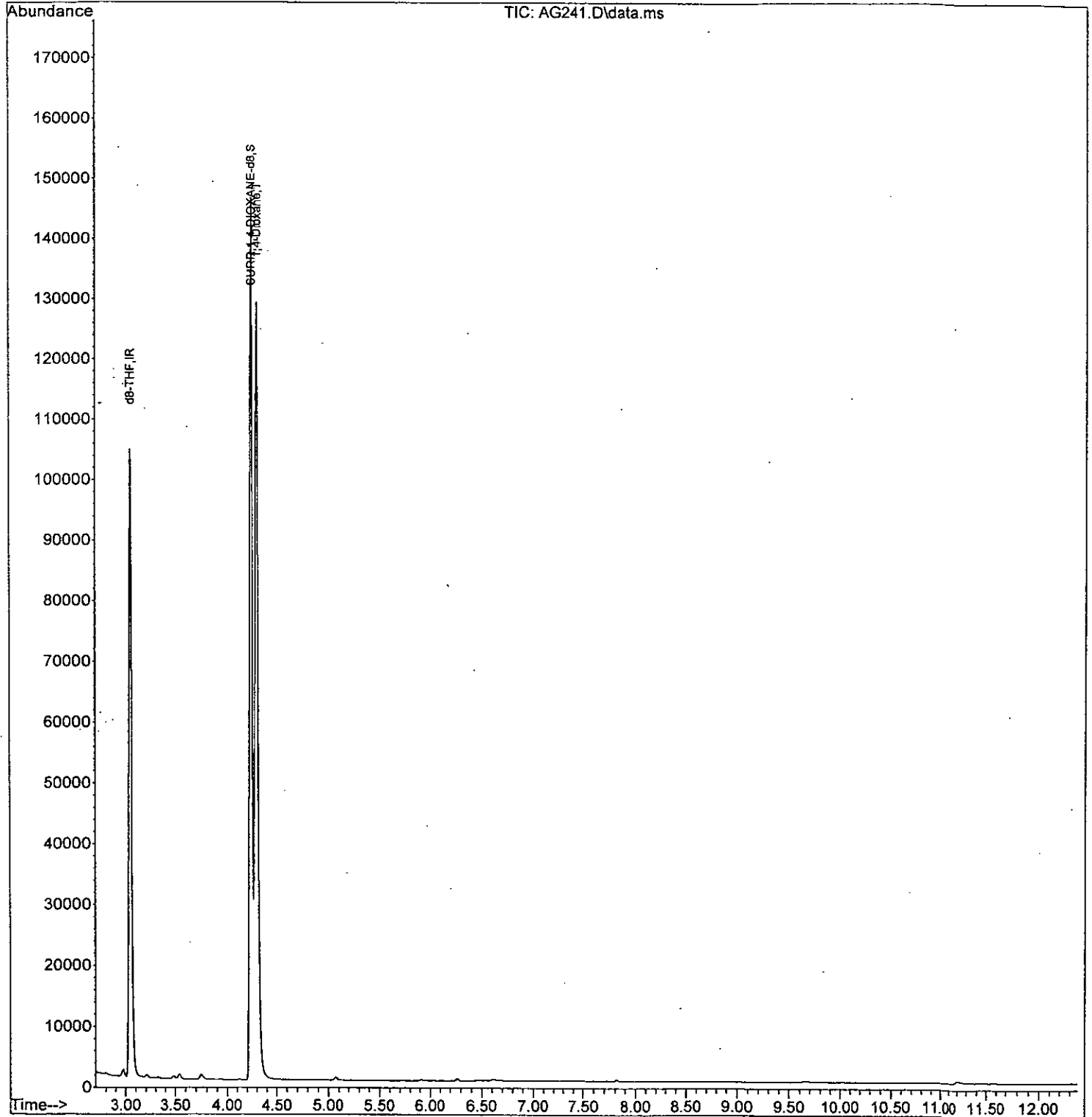
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	3.042	46	71729	500.00	PPB	-0.02
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	4.236	96	134978	875.85	PPB	-0.03
Spiked Amount	100.000	Range	70 - 130	Recovery	=	875.85%#
Target Compounds						
2) 1,4-Dioxane	4.292	88	156900	883.19	PPB	Qvalue 98
-----						

OK  
7/18/14

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\071814\  
Data File : AG241.D  
Acq On : 18 Jul 2014 3:02 pm  
Operator : j.misiurewicz  
Sample : STD 7  
Misc : 1000 ppb STD 522/8270D  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 18 15:57:24 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:56:03 2014  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5975E\data\071814\  
Data File : AG242.D  
Acq On : 18 Jul 2014 3:20 pm  
Operator : j.misiurewicz  
Sample : STD 8  
Misc : 5000 ppb STD 522/8270D  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 18 15:57:26 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:56:03 2014  
Response via : Initial Calibration

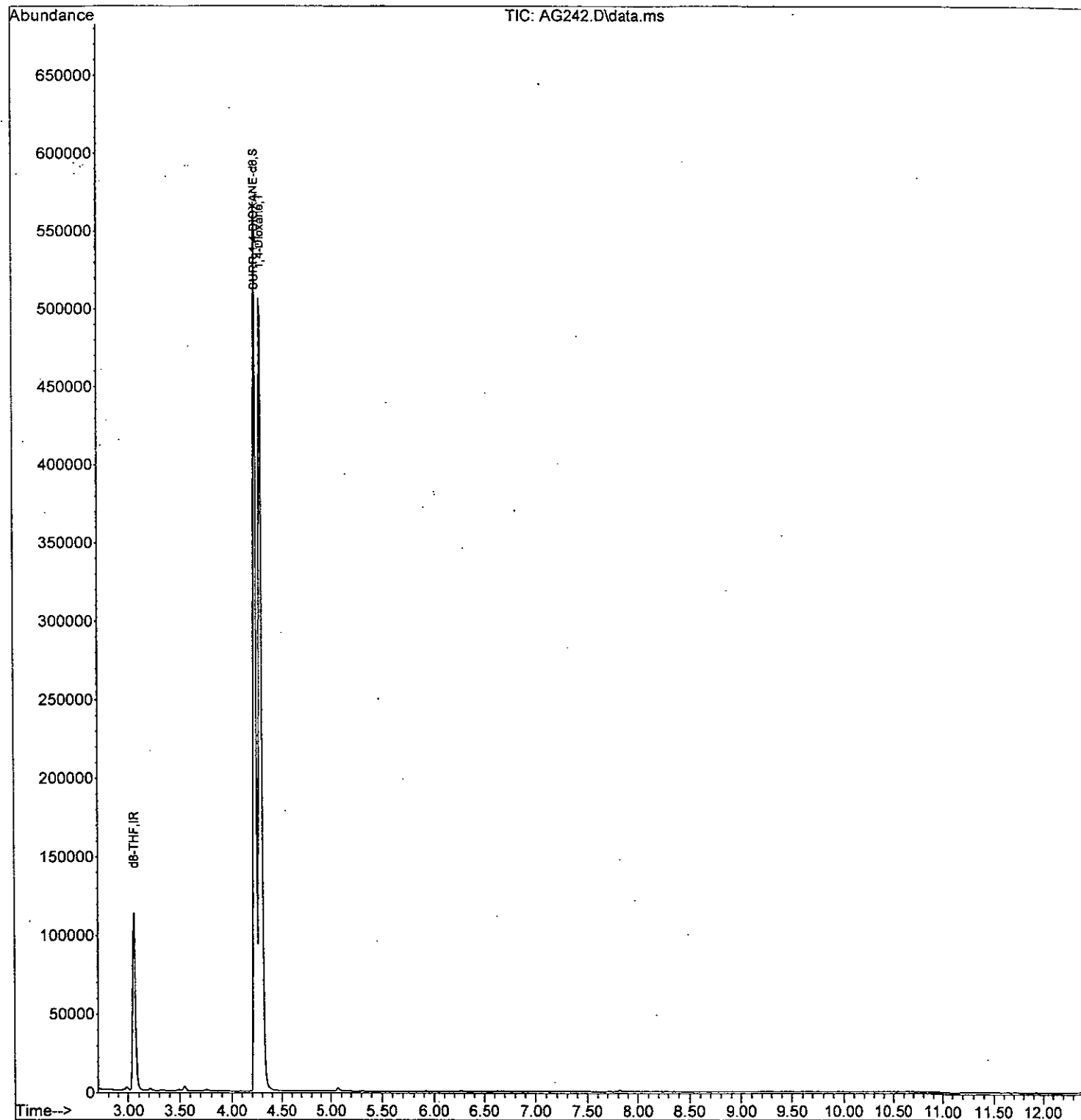
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	3.056	46	67697	500.00	PPB	0.00
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	4.236	96	522834	5485.66	PPB	-0.03
Spiked Amount	100.000	Range	70 - 130	Recovery	= 5485.66%#	
Target Compounds						
2) 1,4-Dioxane	4.292	88	623383	5269.91	PPB	Qvalue 91
-----						

DM  
7/18/14

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\071814\  
Data File : AG242.D  
Acq On : 18 Jul 2014 3:20 pm  
Operator : j.misiurewicz  
Sample : STD 8  
Misc : 5000 ppb STD 522/8270D  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 18 15:57:26 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:56:03 2014  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5975E\data\071814\  
Data File : AG243.D  
Acq On : 18 Jul 2014 3:39 pm  
Operator : j.misiurewicz  
Sample : ICV  
Misc : 200 ppb STD 522/8270D  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 18 15:59:26 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:58:33 2014  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 200%

*SM*  
*7/18/14*

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	IR d8-THF	500.000	500.000	0.0	105	-0.02
2	T 1,4-Dioxane	200.000	170.376	14.8	89	0.00
3	S SURR,1,4-DIOXANE-d8	200.000	179.941	10.0	99	-0.01

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\5975E\data\071814\  
 Data File : AG243.D  
 Acq On : 18 Jul 2014 3:39 pm  
 Operator : j.misiurewicz  
 Sample : ICV  
 Misc : 200 ppb STD 522/8270D  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 18 15:59:26 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Jul 18 15:58:33 2014  
 Response via : Initial Calibration

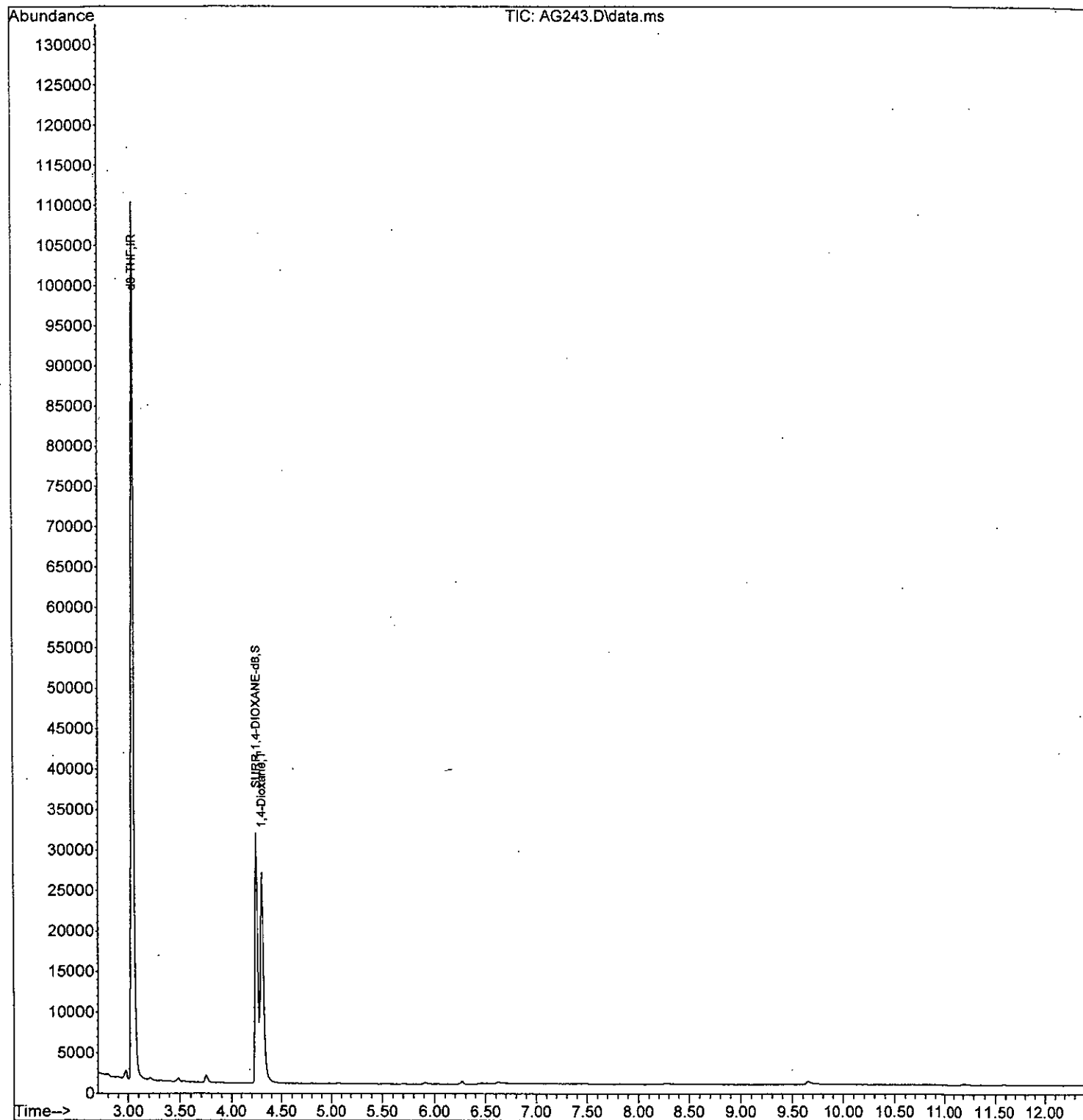
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	3.042	46	74410	500.00	PPB	-0.02
System Monitoring Compounds						
3) SURR;1,4-DIOXANE-d8	4.250	96	30318	179.94	PPB	-0.01
Spiked Amount	100.000	Range	70 - 130	Recovery	= 179.94%#	
Target Compounds						
2) 1,4-Dioxane	4.306	88	33017	170.38	PPB	Qvalue 98
-----						

*OK 7/18/14*

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\071814\  
Data File : AG243.D  
Acq On : 18 Jul 2014 3:39 pm  
Operator : j.misiurewicz  
Sample : ICV  
Misc : 200 ppb STD 522/8270D  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 18 15:59:26 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:58:33 2014  
Response via : Initial Calibration





Data Path : I:\ACQUDATA\5975E\data\071814\  
 Data File : AG234.D  
 Acq On : 18 Jul 2014 12:52 pm  
 Operator : j.misiurewicz  
 Sample : BLK  
 Misc : Initial calibration 522/8270D  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 18 15:59:50 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Jul 18 15:58:33 2014  
 Response via : Initial Calibration

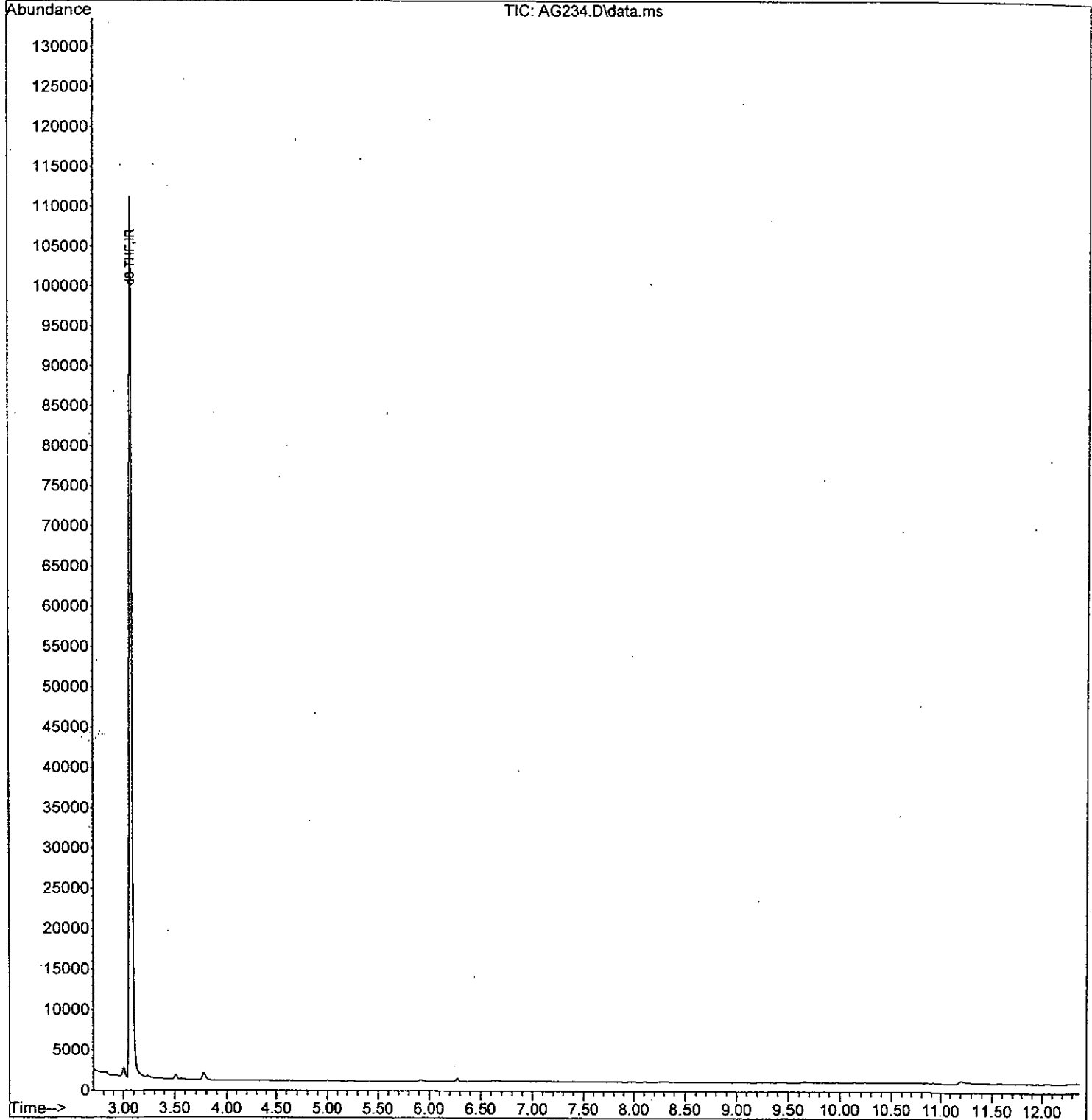
*DM*  
*7/18/14*

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) d8-THF	3.070	46	75169	500.00	PPB	0.01
System Monitoring Compounds						
3) SURR, 1,4-DIOXANE-d8	0.000	96	0	0.00	PPB	
Spiked Amount	100.000	Range	70 - 130	Recovery	=	0.00%#
Target Compounds						
2) 1,4-Dioxane	4.399	88	22	Below Cal	#	39

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\071814\  
Data File : AG234.D  
Acq On : 18 Jul 2014 12:52 pm  
Operator : j.misiurewicz  
Sample : BLK  
Misc : Initial calibration 522/8270D  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 18 15:59:50 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:58:33 2014  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5975E\data\072114\  
 Data File : AG270.D  
 Acq On : 21 Jul 2014 7:58 am  
 Operator : j.misiurewicz  
 Sample : CCV  
 Misc : 2 ppb STD 8270D/522  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 21 09:49:08 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Jul 18 15:58:33 2014  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

*OK  
7/21/14*

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	IR d8-THF	500.000	500.000	0.0	88	0.00
2	T 1,4-Dioxane	2.000	1.843	7.9	84	0.04
3	S SURR,1,4-DIOXANE-d8	2.000	2.212	-10.6	98	0.04

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\5975E\data\072114\  
 Data File : AG270.D  
 Acq On : 21 Jul 2014 7:58 am  
 Operator : j.misiurewicz  
 Sample : CCV  
 Misc : 2 ppb STD 8270D/522  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 21 09:49:08 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Jul 18 15:58:33 2014  
 Response via : Initial Calibration

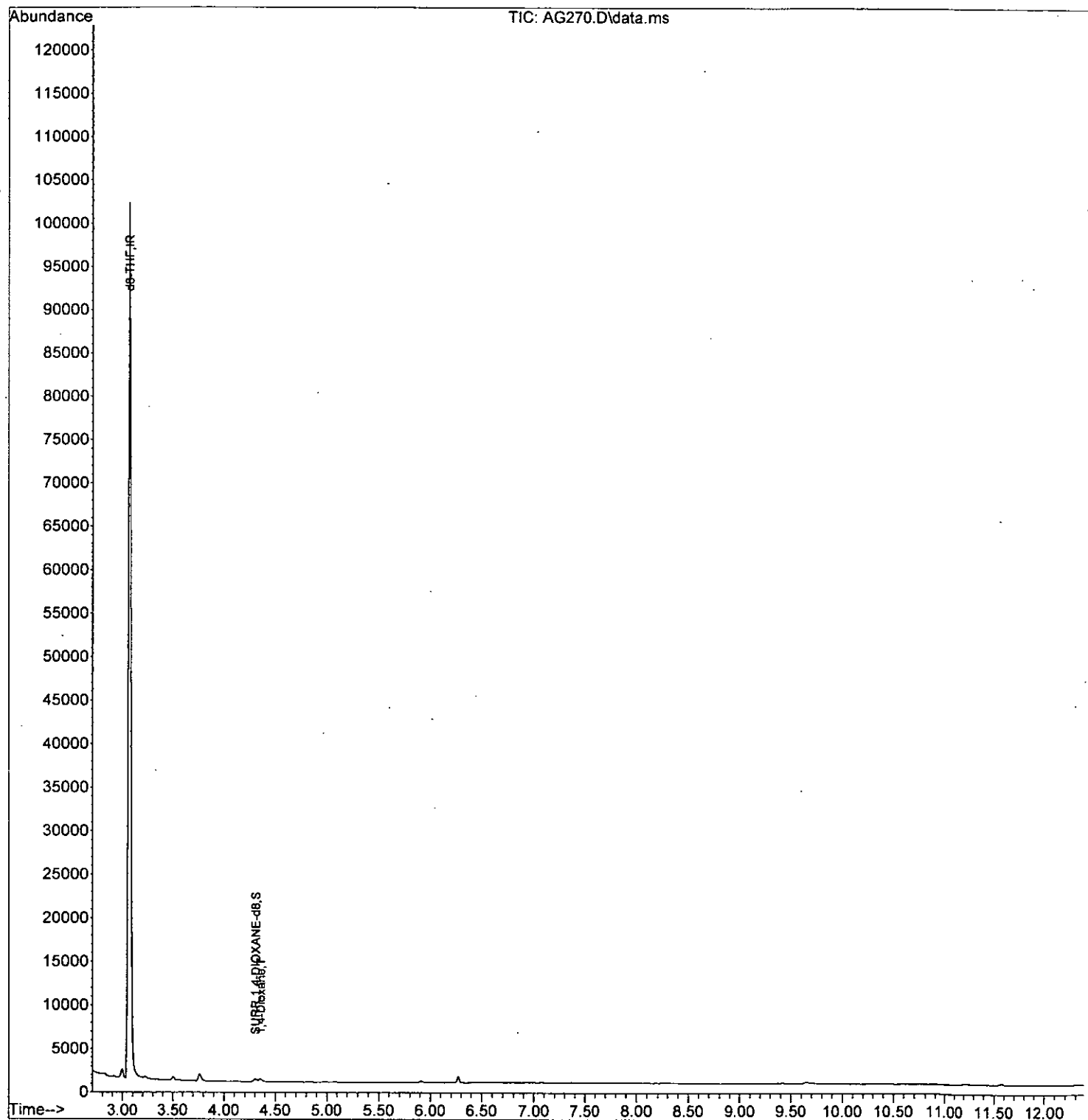
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d8-THF	3.064	46	62168	500.00	PPB	0.00
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	4.307	96	373	2.21	PPB	0.04
Spiked Amount	100.000	Range	70 - 130	Recovery	=	2.21%#
Target Compounds						
2) 1,4-Dioxane	4.357	88	424	1.84	PPB	94

*AM*  
*7/21/14*

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\072114\  
Data File : AG270.D  
Acq On : 21 Jul 2014 7:58 am  
Operator : j.misiurewicz  
Sample : CCV  
Misc : 2 ppb STD 8270D/522  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 21 09:49:08 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:58:33 2014  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5975E\data\072114\  
 Data File : AG281.D  
 Acq On : 21 Jul 2014 11:24 am  
 Operator : j.misiurewicz  
 Sample : CCV  
 Misc : 200 ppb STD 8270D/522  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 21 11:53:04 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Jul 18 15:58:33 2014  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

*OK  
7/21/14*

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 IR d8-THF	500.000	500.000	0.0	88	-0.02
2 T 1,4-Dioxane	200.000	183.091	8.5	81	0.00
3 S SURR,1,4-DIOXANE-d8	200.000	177.702	11.1	82	-0.01

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\5975E\data\072114\  
 Data File : AG281.D  
 Acq On : 21 Jul 2014 11:24 am  
 Operator : j.misiurewicz  
 Sample : CCV  
 Misc : 200 ppb STD 8270D/522  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 21 11:53:04 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Jul 18 15:58:33 2014  
 Response via : Initial Calibration

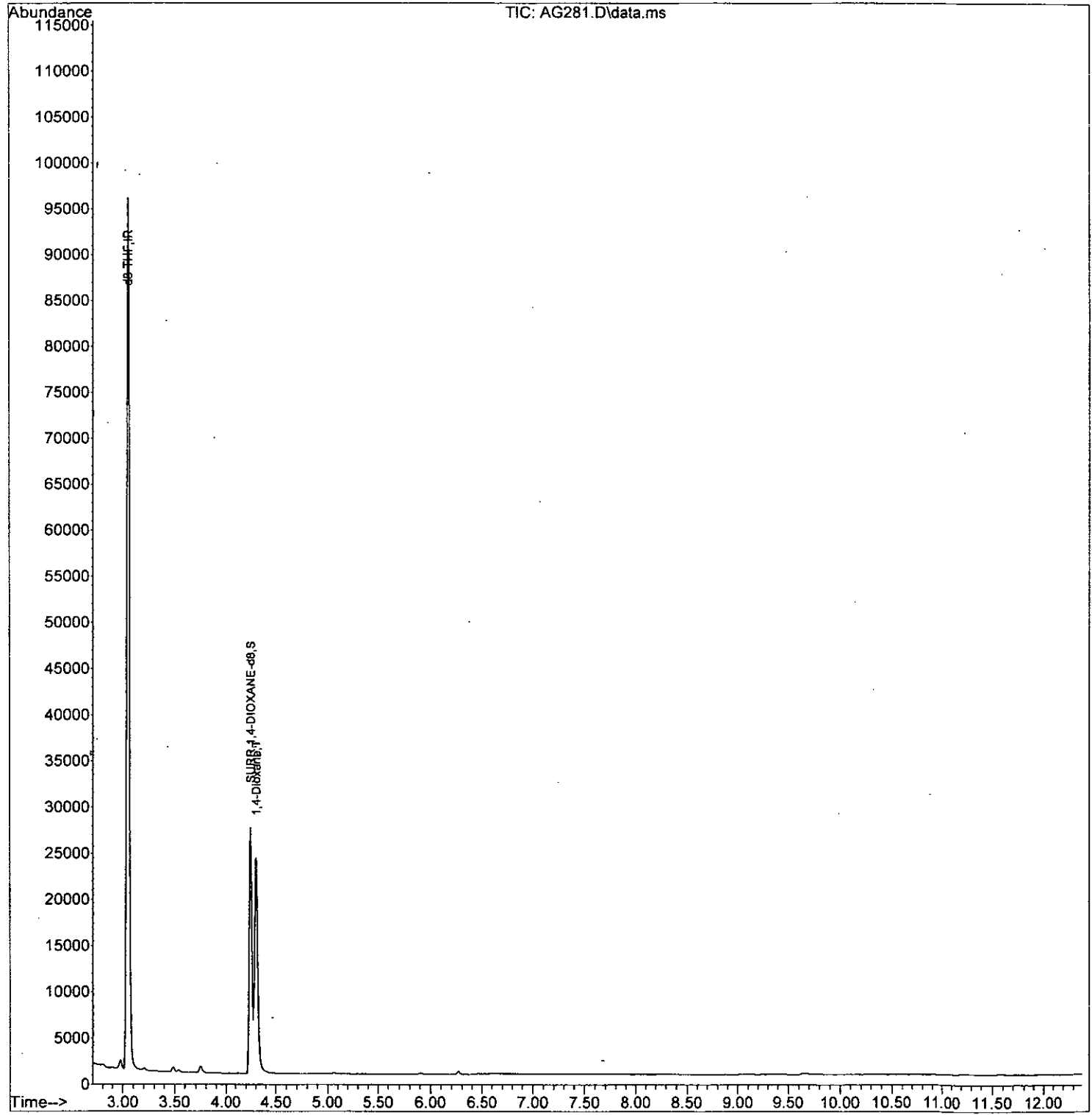
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) d8-THF	3.042	46	62564	500.00	PPB	-0.02	
System Monitoring Compounds							
3) SURR,1,4-DIOXANE-d8	4.250	96	25179	177.70	PPB	-0.01	
Spiked Amount	100.000	Range	70 - 130	Recovery	=	177.70%#	
Target Compounds							
2) 1,4-Dioxane	4.307	88	29799	183.09	PPB		Qvalue 93
-----							

*OK*  
*7/21/14*

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\072114\  
 Data File : AG281.D  
 Acq On : 21 Jul 2014 11:24 am  
 Operator : j.misiurewicz  
 Sample : CCV  
 Misc : 200 ppb STD 8270D/522  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 21 11:53:04 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Jul 18 15:58:33 2014  
 Response via : Initial Calibration





Data Path : I:\ACQUDATA\5975E\data\072114\  
Data File : AG291.D  
Acq On : 21 Jul 2014 2:29 pm  
Operator : j.misiurewicz  
Sample : CCV  
Misc : 2 ppb STD 8270D/522  
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 21 15:01:37 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:58:33 2014  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 200%

*OK*  
*7/21/14*

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 IR d8-THF	500.000	500.000	0.0	80	-0.03
2 T 1,4-Dioxane	2.000	1.731	13.4	72	0.00
3 S SURR,1,4-DIOXANE-d8	2.000	2.068	-3.4	83	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)  
Data Path : I:\ACQUDATA\5975E\data\072114\  
Data File : AG291.D  
Acq On : 21 Jul 2014 2:29 pm  
Operator : j.misiurewicz  
Sample : CCV  
Misc : 2 ppb STD 8270D/522  
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 21 15:01:37 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:58:33 2014  
Response via : Initial Calibration

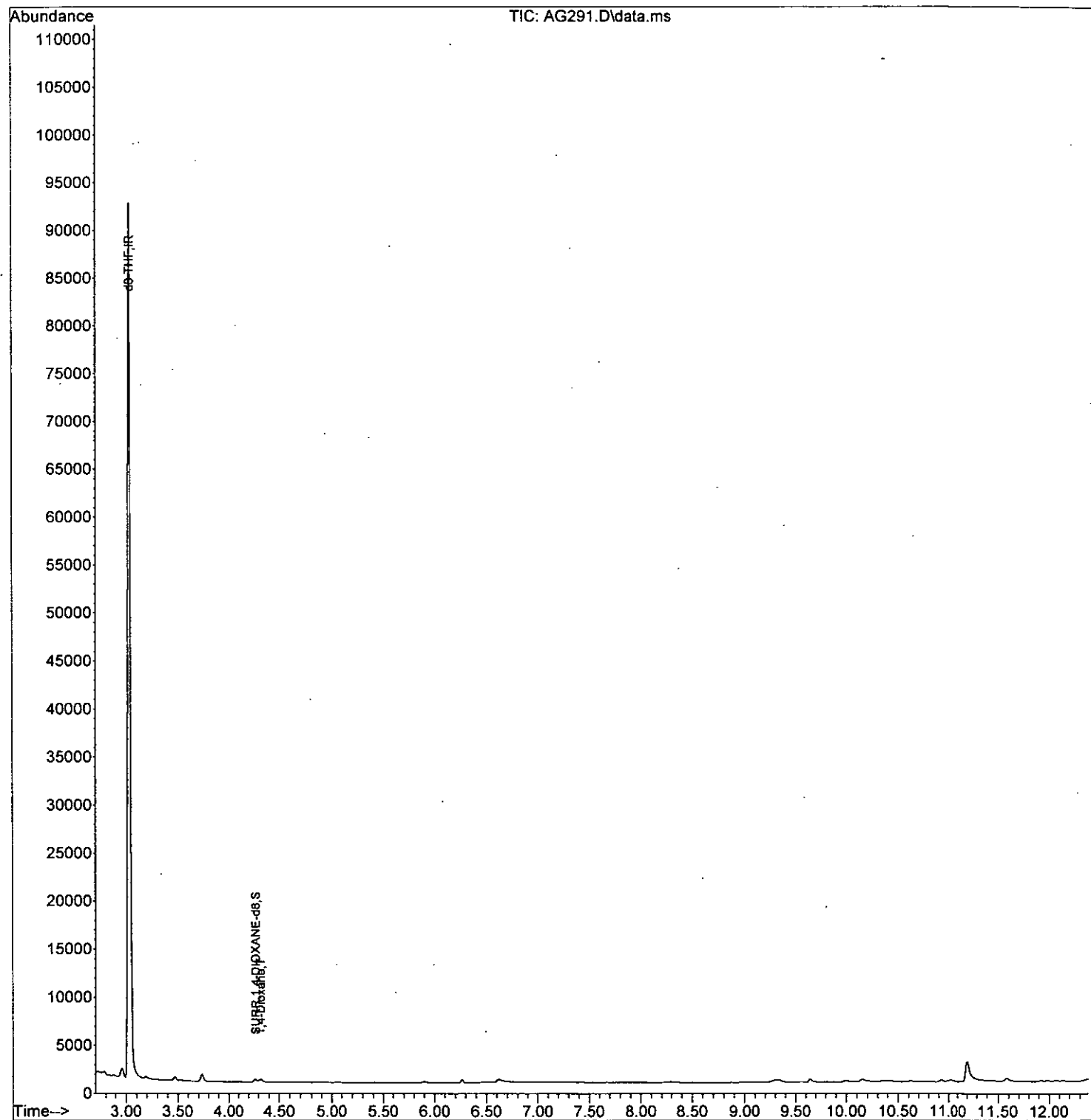
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	3.028	46	56078	500.00	PPB	-0.03
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	4.271	96	318	2.07	PPB	0.00
Spiked Amount	100.000	Range	70 - 130	Recovery	=	2.07%#
Target Compounds						
2) 1,4-Dioxane	4.321	88	366	1.73	PPB	Qvalue 98
-----						

*M*  
*7/21/14*

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\072114\  
Data File : AG291.D  
Acq On : 21 Jul 2014 2:29 pm  
Operator : j.misiurewicz  
Sample : CCV  
Misc : 2 ppb STD 8270D/522  
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 21 15:01:37 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:58:33 2014  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5975E\data\072114\  
Data File : AG301.D  
Acq On : 21 Jul 2014 5:35 pm  
Operator : j.misiurewicz  
Sample : CCV  
Misc : 200 ppb STD 8270D/522  
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jul 22 06:37:11 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:58:33 2014  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		Amount	Calc.	%Dev	Area%	Dev(min)
1	IR d8-THF	500.000	500.000	0.0	84	-0.03
2	T 1,4-Dioxane	200.000	195.405	2.3	82	-0.02
3	S SURR,1,4-DIOXANE-d8	200.000	195.892	2.1	86	-0.03

OK  
7/22/14

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\5975E\data\072114\  
Data File : AG301.D  
Acq On : 21 Jul 2014 5:35 pm  
Operator : j.misiurewicz  
Sample : CCV  
Misc : 200 ppb STD 8270D/522  
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jul 22 06:37:11 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:58:33 2014  
Response via : Initial Calibration

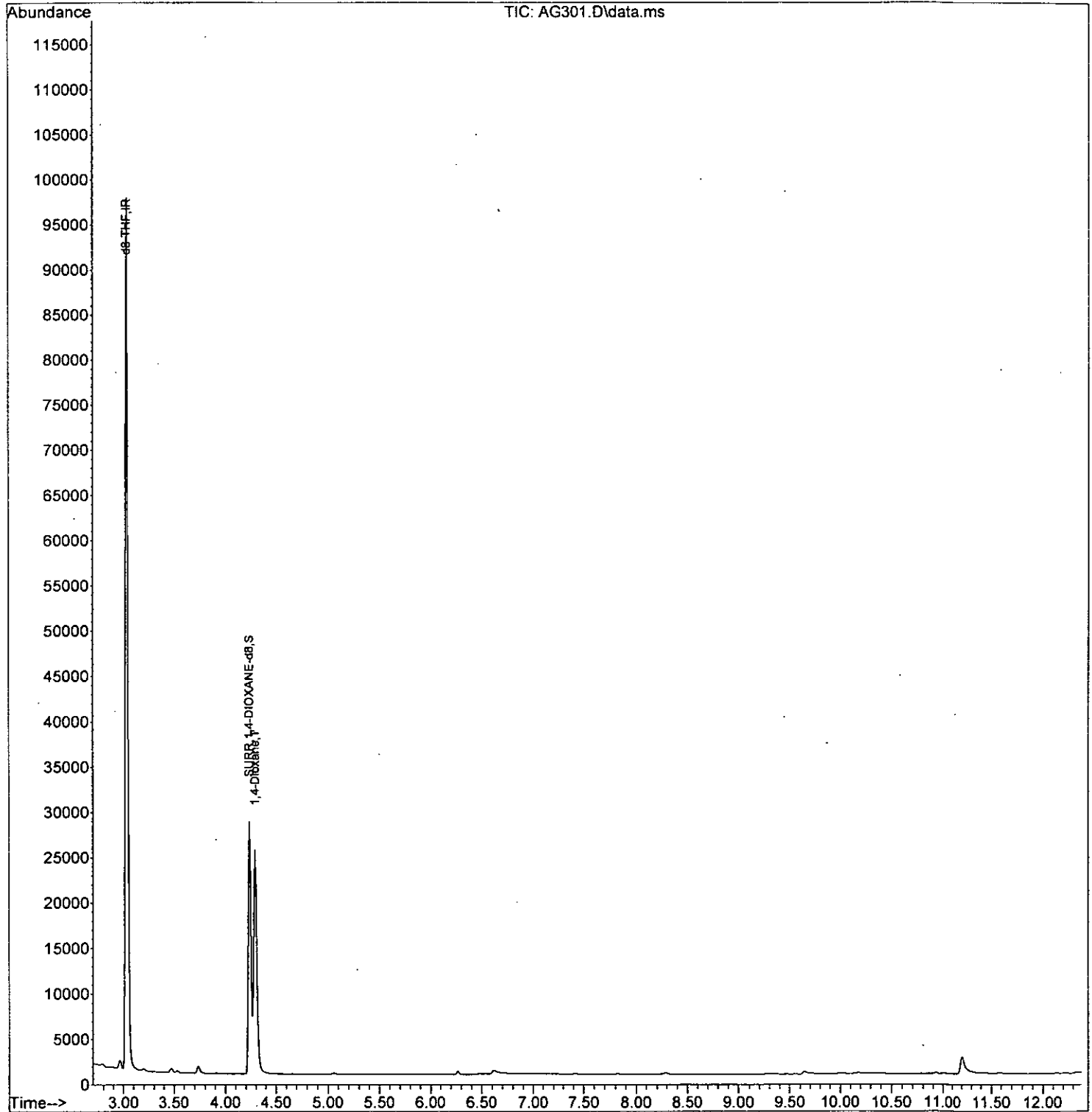
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	3.028	46	59689	500.00	PPB	-0.03
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	4.236	96	26441	195.89	PPB	-0.03
Spiked Amount	100.000	Range	70 - 130	Recovery	=	195.89%#
Target Compounds						
2) 1,4-Dioxane	4.293	88	30310	195.41	PPB	Qvalue 100
-----						

*On 7/22/14*

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\072114\  
 Data File : AG301.D  
 Acq On : 21 Jul 2014 5:35 pm  
 Operator : j.misiurewicz  
 Sample : CCV  
 Misc : 200 ppb STD 8270D/522  
 ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jul 22 06:37:11 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Jul 18 15:58:33 2014  
 Response via : Initial Calibration





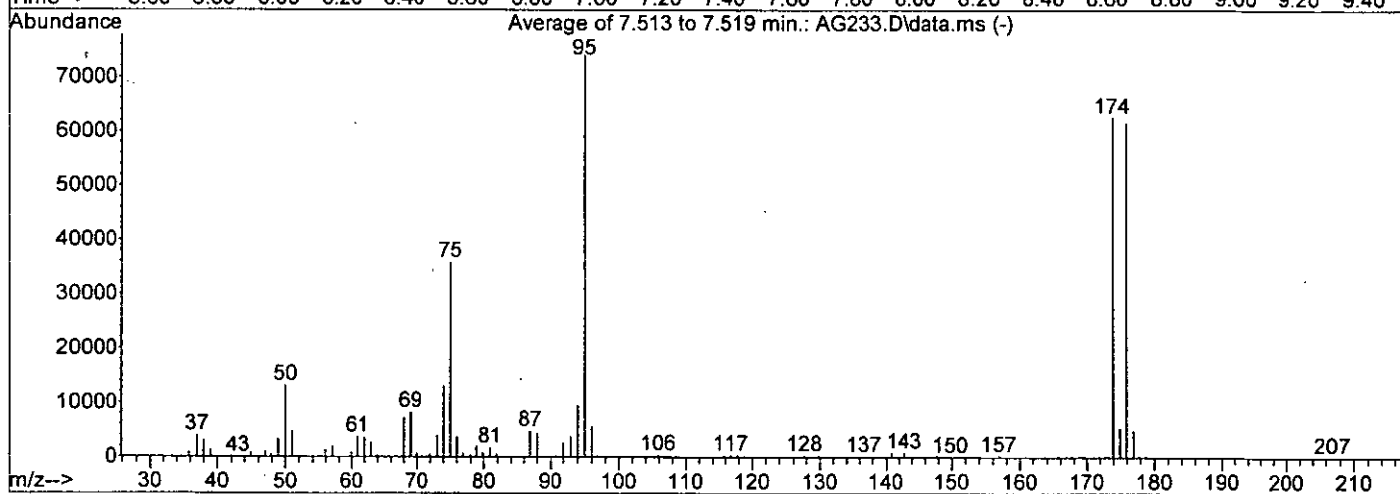
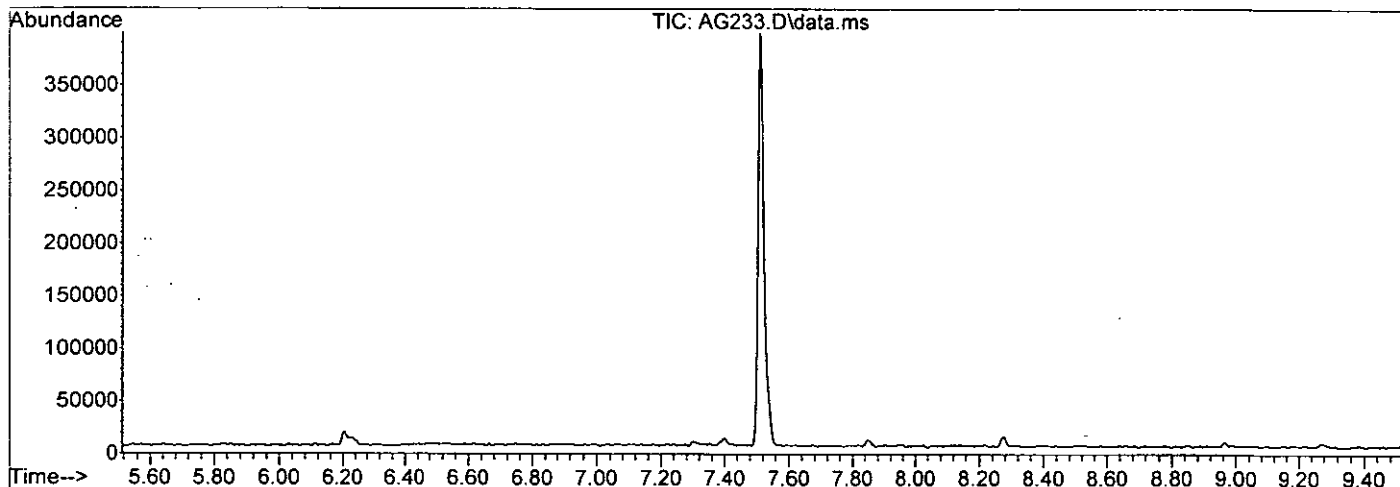
# 1,4-DIOXANE RAW QC DATA

**ALS Environmental - Rochester, NY**  
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

Data Path : I:\ACQUDATA\5975E\data\071814\  
 Data File : AG233.D  
 Acq On : 18 Jul 2014 12:27 pm  
 Operator : j.misiurewicz  
 Sample : TUNE  
 Misc : BFB  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e

Method : I:\ACQUDATA\5975E\METHODS\bfbtune.M  
 Title :  
 Last Update : Wed Mar 28 08:41:26 2012



AutoFind: Scans 827, 828, 829; Background Corrected with Scan 816  
 AUTOFIND via AUTOINTEGRATE

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result
50	95	15	40	17.7	13122	PASS
75	95	30	60	48.3	35773	PASS
95	95	100	100	100.0	74021	PASS
96	95	5	9	7.6	5613	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.5	62536	PASS
175	174	5	9	8.5	5305	PASS
176	174	95	101	98.2	61411	PASS
177	176	5	9	7.8	4818	PASS

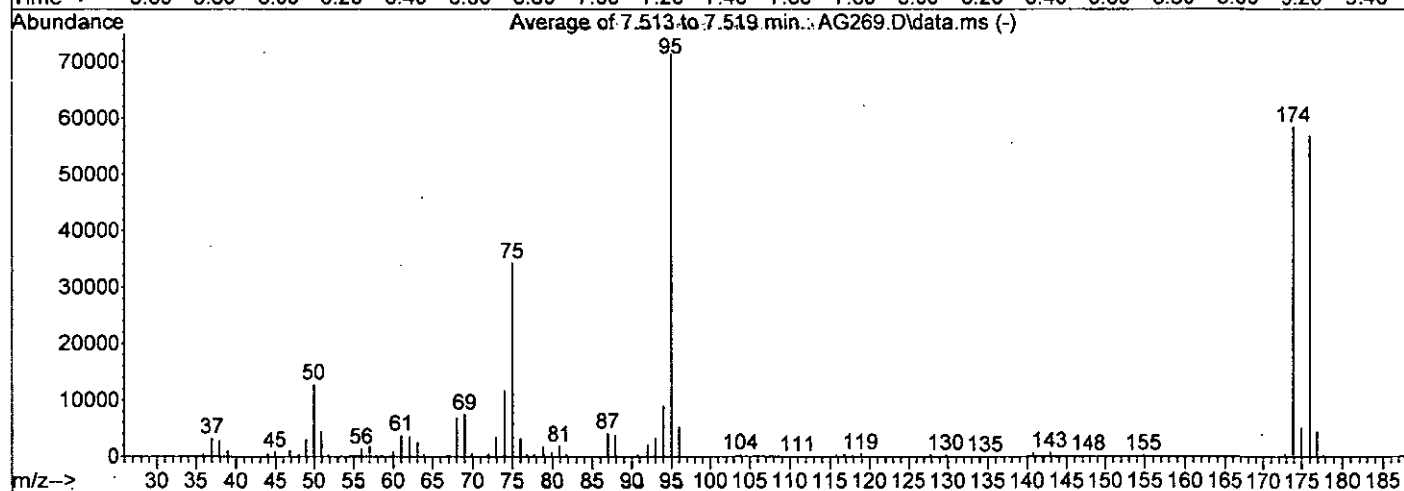
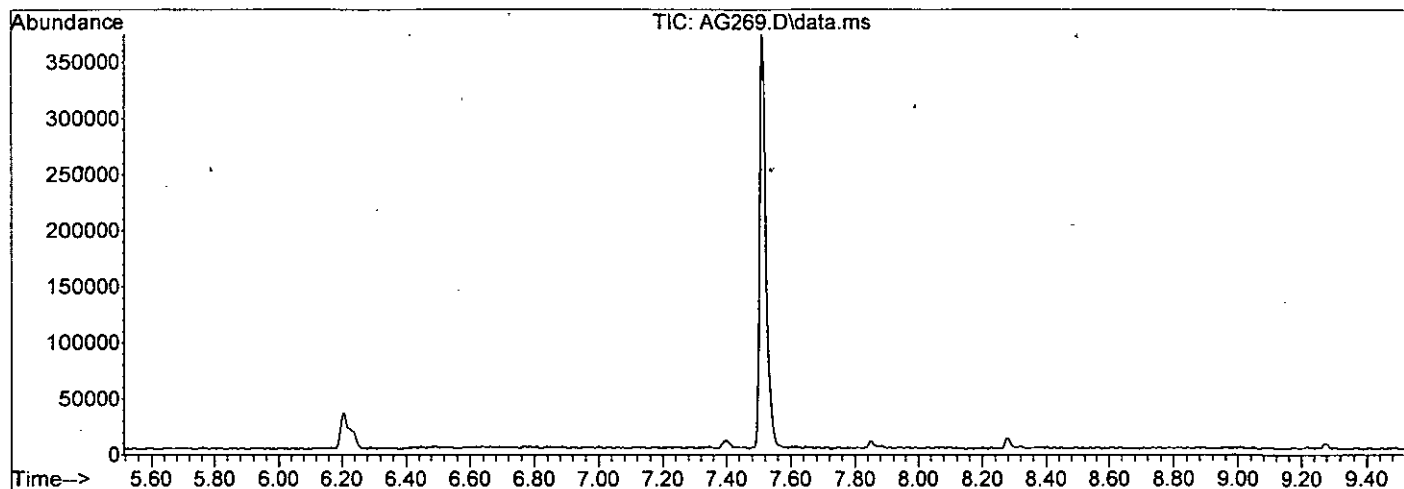
*074*  
*7/18/14*



Data Path : I:\ACQUDATA\5975E\data\072114\  
 Data File : AG269.D  
 Acq On : 21 Jul 2014 7:35 am  
 Operator : j.misiurewicz  
 Sample : TUNE  
 Misc : BFB  
 ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e

Method : I:\ACQUDATA\5975E\METHODS\bfbtune.M  
 Title :  
 Last Update : Wed Mar 28 08:41:26 2012



AutoFind: Scans 827, 828, 829; Background Corrected with Scan 817

AUTOFIND via AUTOINTEGRATE

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result
50	95	15	40	17.9	12751	PASS
75	95	30	60	48.1	34285	PASS
95	95	100	100	100.0	71331	PASS
96	95	5	9	7.3	5230	PASS
173	174	0.00	2	0.7	414	PASS
174	95	50	100	82.0	58483	PASS
175	174	5	9	8.7	5061	PASS
176	174	95	101	97.1	56811	PASS
177	176	5	9	7.8	4456	PASS

DM  
7/21/14

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.00030  
 Sample Matrix: Water

Service Request: R1405373  
 Date Collected: NA  
 Date Received: NA  
 Date Extracted: 7/14/14  
 Date Analyzed: 7/21/14 12:19

Sample Name: Method Blank  
 Lab Code: RQ1408065-01

Units: µg/L  
 Basis: As Received

1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

Analytical Method: 522  
 Prep Method: Method  
 Data File Name: I:\ACQUDATA\5975E\data\072114\AG284.D\

Analysis Lot: 402729  
 Extraction Lot: 212923  
 Instrument Name: R-MS-56  
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
123-91-1	1,4-Dioxane	0.0400	U	0.0400	0.0200	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	103	70-130	7/21/14 12:19	

Data Path : I:\ACQUDATA\5975E\data\072114\  
 Data File : AG284.D  
 Acq On : 21 Jul 2014 12:19 pm  
 Operator : j.misiurewicz  
 Sample : RQ1408065-01|1.0  
 Misc : 07/14/14 522 DIOX BLK  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 21 12:33:41 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Jul 18 15:58:33 2014  
 Response via : Initial Calibration

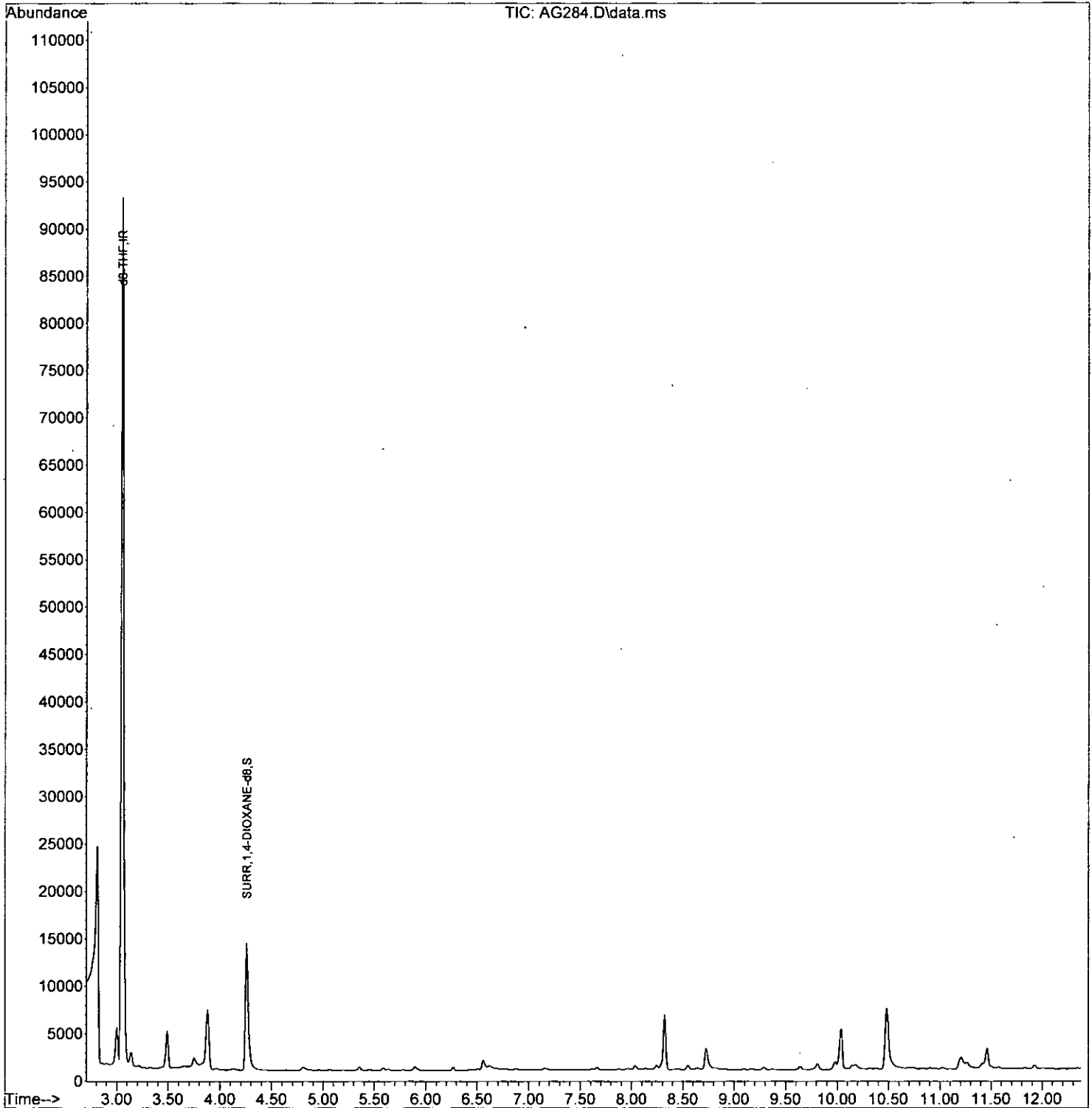
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	3.049	46	58147	500.00	PPB	0.00
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	4.257	96	13594	102.51	PPB	0.00
Spiked Amount	100.000	Range	70 - 130	Recovery	=	102.51%
Target Compounds						
2) 1,4-Dioxane	0.000		0	N.D.	d	Qvalue
-----						

*OM*  
*7/21/14*

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\072114\  
Data File : AG284.D  
Acq On : 21 Jul 2014 12:19 pm  
Operator : j.misiurewicz  
Sample : RQ1408065-01|1.0  
Misc : 07/14/14 522 DIOX BLK  
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 21 12:33:41 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:58:33 2014  
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.00030  
 Sample Matrix: Water

Service Request: R1405373  
 Date Collected: NA  
 Date Received: NA  
 Date Extracted: 7/14/14  
 Date Analyzed: 7/21/14 12:38

Sample Name: Lab Control Sample  
 Lab Code: RQ1408065-02

Units: µg/L  
 Basis: As Received

1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

Analytical Method: 522  
 Prep Method: Method  
 Data File Name: I:\ACQUDATA\5975E\data\072114\AG285.D\

Analysis Lot: 402729  
 Extraction Lot: 212923  
 Instrument Name: R-MS-56  
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
123-91-1	1,4-Dioxane	8.65		0.0400	0.0200	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	95	70-130	7/21/14 12:38	

Data Path : I:\ACQUDATA\5975E\data\072114\  
 Data File : AG285.D  
 Acq On : 21 Jul 2014 12:38 pm  
 Operator : j.misiurewicz  
 Sample : RQ1408065-02|1.0  
 Misc : 07/14/14 522 DIOX LCS  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 21 14:06:16 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Jul 18 15:58:33 2014  
 Response via : Initial Calibration

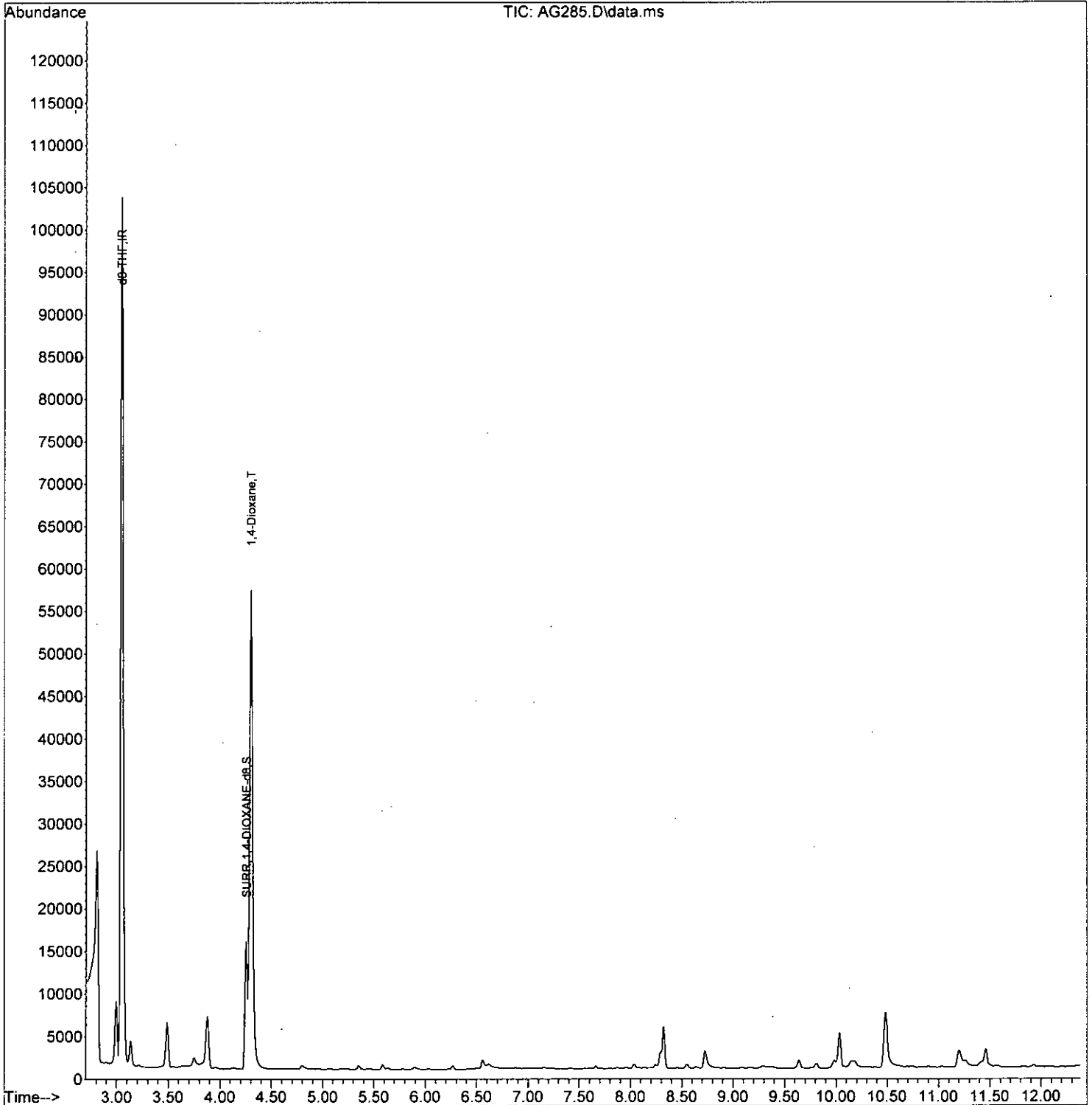
*OK  
7/21/14*

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	3.049	46	62586	500.00	PPB	0.00
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	4.257	96	13566	94.96	PPB	0.00
Spiked Amount	100.000	Range	70 - 130	Recovery	=	94.96%
Target Compounds						
2) 1,4-Dioxane	4.299	88	69121	432.46	PPB	Qvalue 99
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\072114\  
 Data File : AG285.D  
 Acq On : 21 Jul 2014 12:38 pm  
 Operator : j.misiurewicz  
 Sample : RQ1408065-02|1.0  
 Misc : 07/14/14 522 DIOX LCS  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 21 14:06:16 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Jul 18 15:58:33 2014  
 Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.00030  
 Sample Matrix: Water

Service Request: R1405373  
 Date Collected: NA  
 Date Received: NA  
 Date Extracted: 7/14/14  
 Date Analyzed: 7/21/14 12:57

Sample Name: Duplicate Lab Control Sample  
 Lab Code: RQ1408065-03

Units: µg/L  
 Basis: As Received

1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

Analytical Method: 522  
 Prep Method: Method  
 Data File Name: I:\ACQUDATA\5975E\data\072114\AG286.D\

Analysis Lot: 402729  
 Extraction Lot: 212923  
 Instrument Name: R-MS-56  
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
123-91-1	1,4-Dioxane	8.98	0.0400	0.0200	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	99	70-130	7/21/14 12:57	



Data Path : I:\ACQUDATA\5975E\data\072114\  
 Data File : AG286.D  
 Acq On : 21 Jul 2014 12:57 pm  
 Operator : j.misiurewicz  
 Sample : RQ1408065-03|1.0  
 Misc : 07/14/14 522 DIOX LCSD  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 21 14:06:41 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Jul 18 15:58:33 2014  
 Response via : Initial Calibration

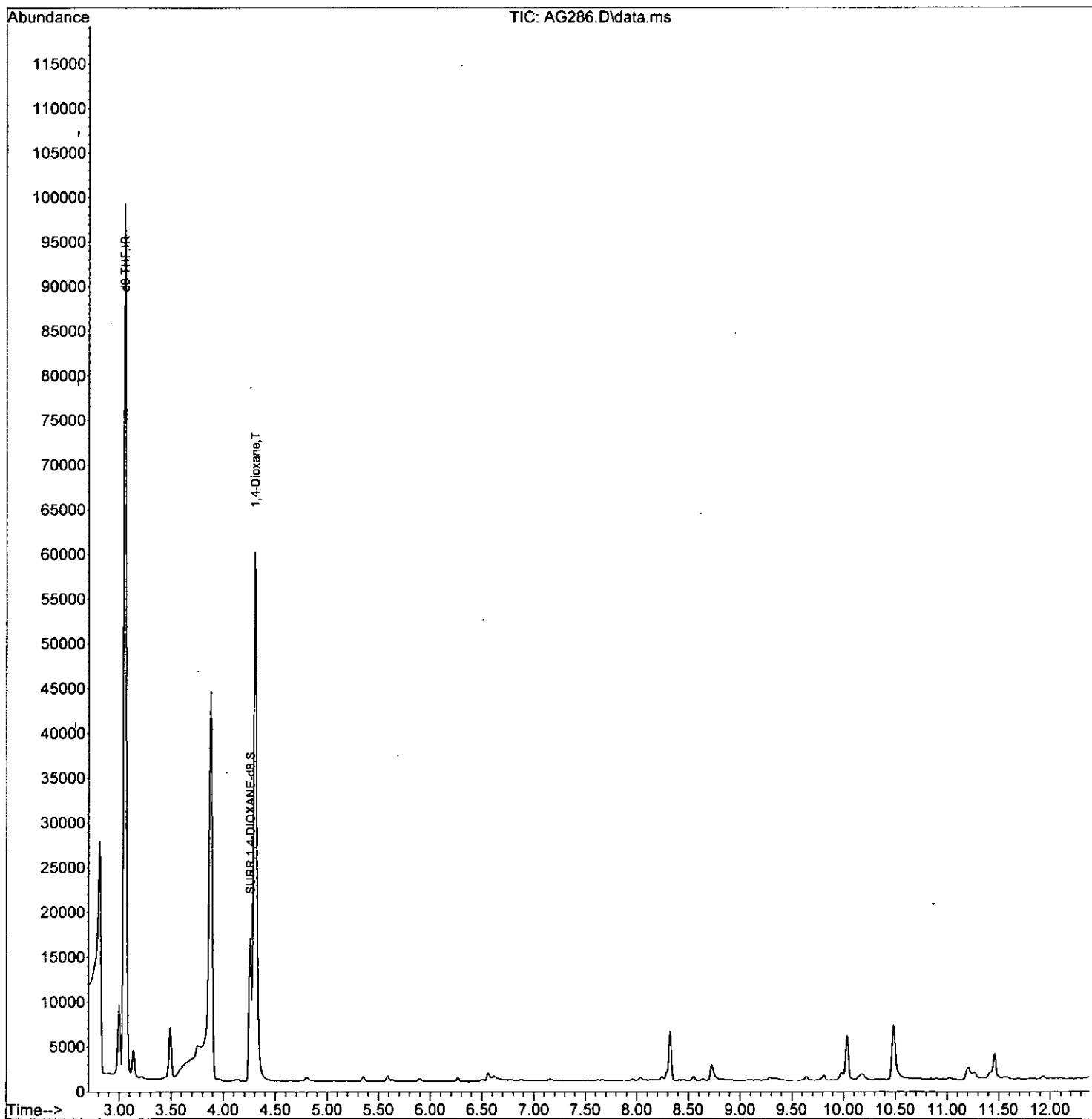
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	3.049	46	64257	500.00	PPB	0.00
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	4.257	96	14561	99.32	PPB	0.00
Spiked Amount	100.000	Range	70 - 130	Recovery	=	99.32%
Target Compounds						
2) 1,4-Dioxane	4.300	88	73627	449.19	PPB	Qvalue 98
-----						

*OK*  
*7/21/14*

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\072114\  
Data File : AG286.D  
Acq On : 21 Jul 2014 12:57 pm  
Operator : j.misiurewicz  
Sample : RQ1408065-03|1.0  
Misc : 07/14/14 522 DIOX LCSD  
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 21 14:06:41 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:58:33 2014  
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.00030  
 Sample Matrix: Water

Service Request: R1405373  
 Date Collected: NA  
 Date Received: NA  
 Date Extracted: 7/14/14  
 Date Analyzed: 7/21/14 13:15

Sample Name: Lab Control Sample  
 Lab Code: RQ1408065-04

Units: µg/L  
 Basis: As Received

1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

Analytical Method: 522  
 Prep Method: Method  
 Data File Name: I:\ACQUDATA\5975E\data\072114\AG287.D\

Analysis Lot: 402729  
 Extraction Lot: 212923  
 Instrument Name: R-MS-56  
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
123-91-1	1,4-Dioxane	0.0430	0.0400	0.0200	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	90	70-130	7/21/14 13:15	

Data Path : I:\ACQUDATA\5975E\data\072114\  
 Data File : AG287.D  
 Acq On : 21 Jul 2014 1:15 pm  
 Operator : j.misiurewicz  
 Sample : RQ1408065-04|1.0  
 Misc : 07/14/14 522 DIOX LCSLL  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 21 14:07:14 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Jul 18 15:58:33 2014  
 Response via : Initial Calibration

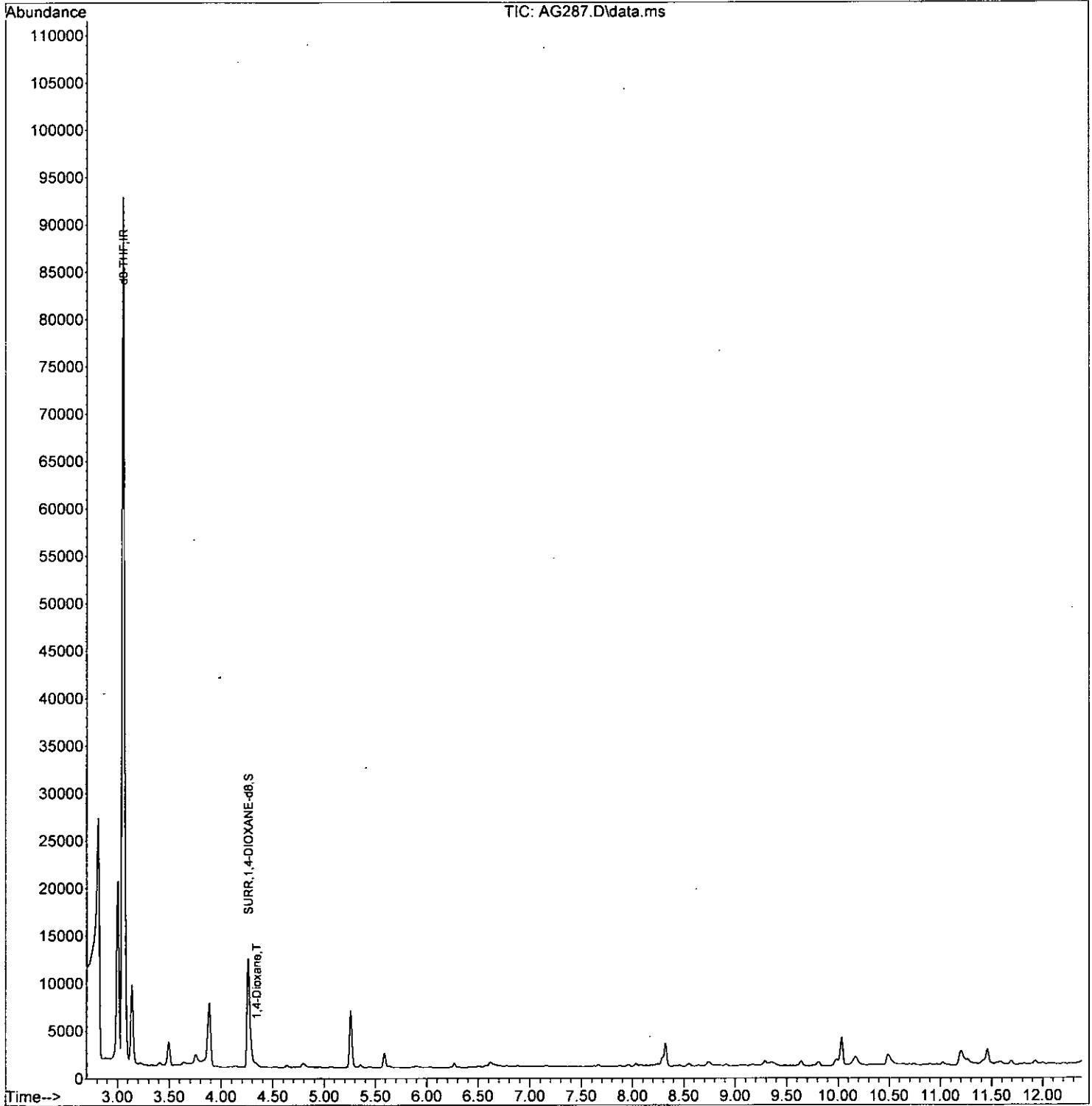
*OK  
7/21/14*

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	3.056	46	55340	500.00	PPB	0.00
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	4.264	96	11392	90.13	PPB	0.00
Spiked Amount	100.000	Range	70 - 130	Recovery	=	90.13%
Target Compounds						
2) 1,4-Dioxane	4.342	88	422	2.15	PPB	Qvalue .88
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\072114\  
 Data File : AG287.D  
 Acq On : 21 Jul 2014 1:15 pm  
 Operator : j.misiurewicz  
 Sample : RQ1408065-04|1.0  
 Misc : 07/14/14 522 DIOX LCSLL  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 21 14:07:14 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Jul 18 15:58:33 2014  
 Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.00030  
 Sample Matrix: Water

Service Request: R1405373  
 Date Collected: 7/11/14 0952  
 Date Received: 7/12/14  
 Date Extracted: 7/14/14  
 Date Analyzed: 7/21/14 13:52

Sample Name: RW-111  
 Lab Code: RQ1408065-05  
 Run Type: Matrix Spike

Units: µg/L  
 Basis: As Received

1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

Analytical Method: 522  
 Prep Method: Method  
 Data File Name: I:\ACQUDATA\5975E\data\072114\AG289.D\

Analysis Lot: 402729  
 Extraction Lot: 212923  
 Instrument Name: R-MS-56  
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
123-91-1	1,4-Dioxane	7.55		0.0400	0.0200	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	81	70-130	7/21/14 13:52	

Data Path : I:\ACQUDATA\5975E\data\072114\  
 Data File : AG289.D  
 Acq On : 21 Jul 2014 1:52 pm  
 Operator : j.misiurewicz  
 Sample : RQ1408065-05|1.0  
 Misc : 07/14/14 522 DIOX 5373-001MS  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 21 14:08:34 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Jul 18 15:58:33 2014  
 Response via : Initial Calibration

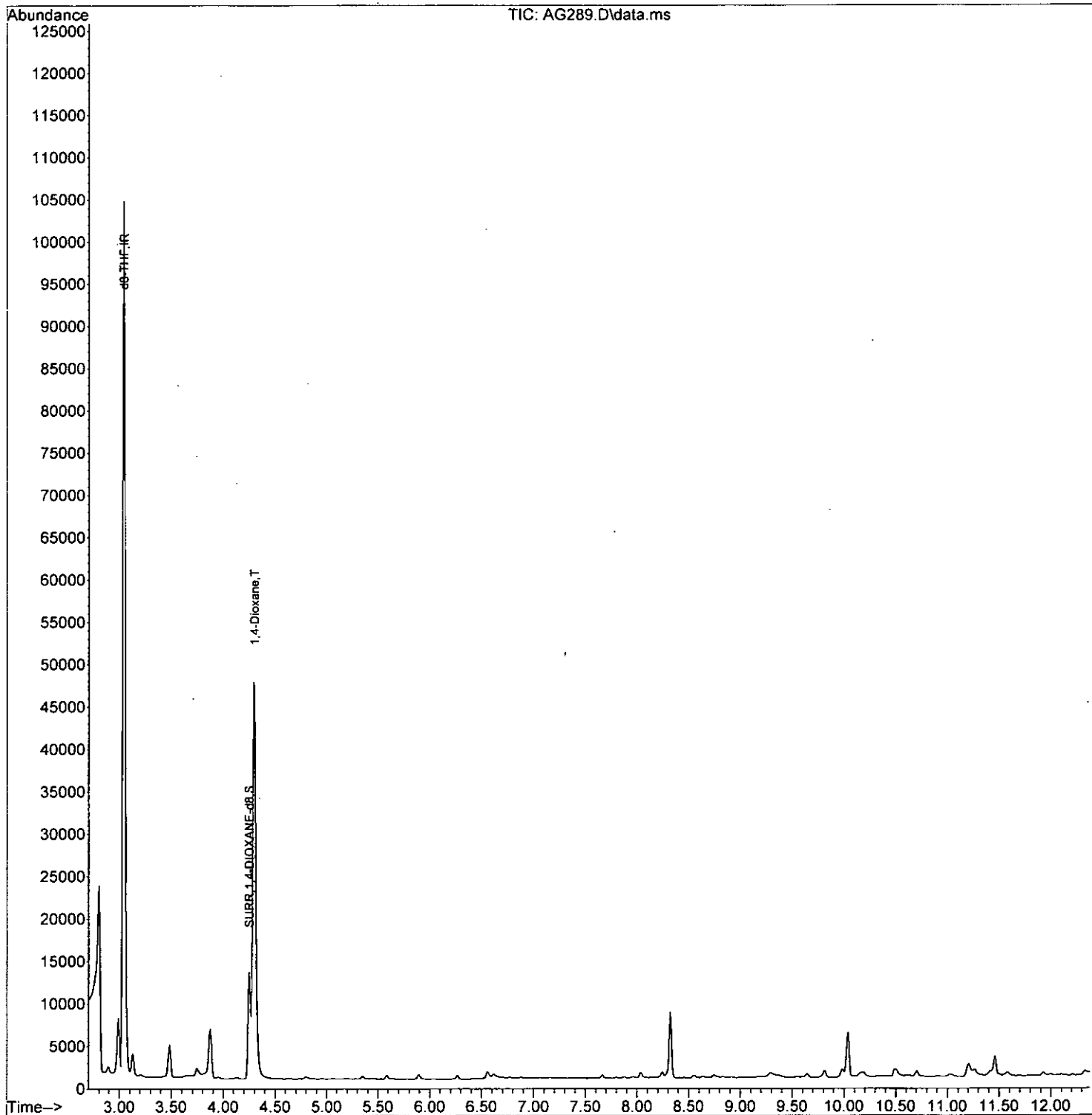
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	3.042	46	61880	500.00	PPB	-0.02
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	4.250	96	11526	81.46	PPB	-0.01
Spiked Amount	100.000	Range	70 - 130	Recovery	=	81.46%
Target Compounds						
2) 1,4-Dioxane	4.299	88	59885	377.50	PPB	Qvalue 92
-----						

*M*  
*7/21/14*

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\072114\  
Data File : AG289.D  
Acq On : 21 Jul 2014 1:52 pm  
Operator : j.misiurewicz  
Sample : RQ1408065-05|1.0  
Misc : 07/14/14 522 DIOX 5373-001MS  
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 21 14:08:34 2014  
Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Jul 18 15:58:33 2014  
Response via : Initial Calibration





ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: AECOM, Inc.  
 Project: Auriga Spartanburg/60280417.00030  
 Sample Matrix: Water

Service Request: R1405373  
 Date Collected: 7/11/14 0952  
 Date Received: 7/12/14  
 Date Extracted: 7/14/14  
 Date Analyzed: 7/21/14 14:11

Sample Name: RW-111  
 Lab Code: RQ1408065-06  
 Run Type: Duplicate Matrix Spike

Units: µg/L  
 Basis: As Received

1,4-Dioxane by Solid Phase Extraction and GC/MS With Selected Ion Monitoring

Analytical Method: 522  
 Prep Method: Method  
 Data File Name: I:\ACQUDATA\5975E\data\072114\AG290.D\

Analysis Lot: 402729  
 Extraction Lot: 212923  
 Instrument Name: R-MS-56  
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
123-91-1	1,4-Dioxane	8.76		0.0400	0.0200	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	96	70-130	7/21/14 14:11	

Data Path : I:\ACQUDATA\5975E\data\072114\  
 Data File : AG290.D  
 Acq On : 21 Jul 2014 2:11 pm  
 Operator : j.misiurewicz  
 Sample : RQ1408065-06|1.0  
 Misc : 07/14/14 522.DIOX 5373-001MSD  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 21 14:29:20 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Jul 18 15:58:33 2014  
 Response via : Initial Calibration

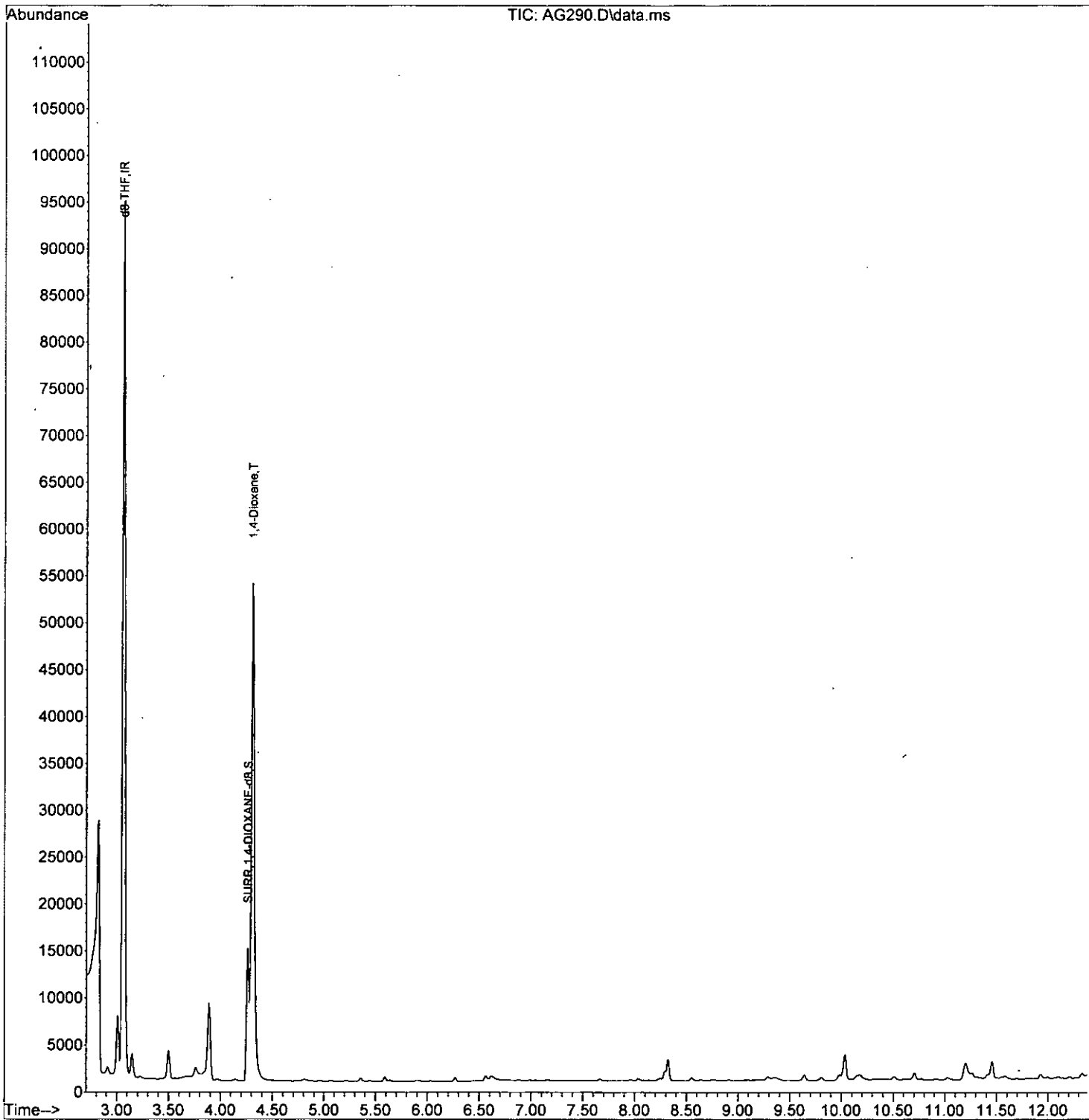
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d8-THF	3.056	46	58944	500.00	PPB	0.00
System Monitoring Compounds						
3) SURR,1,4-DIOXANE-d8	4.264	96	12899	95.88	PPB	0.00
Spiked Amount	100.000	Range	70 - 130	Recovery	=	95.88%
Target Compounds						
2) 1,4-Dioxane	4.306	88	65942	438.24	PPB	Qvalue 97
-----						

*DM*  
*7/21/14*

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5975E\data\072114\  
 Data File : AG290.D  
 Acq On : 21 Jul 2014 2:11 pm  
 Operator : j.misiurewicz  
 Sample : RQ1408065-06|1.0  
 Misc : 07/14/14 522 DIOX 5373-001MSD  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 21 14:29:20 2014  
 Quant Method : I:\ACQUDATA\5975E\METHODS\SDIOX071814.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Jul 18 15:58:33 2014  
 Response via : Initial Calibration



# Preparation Information Benchsheet

Prep Run#: 212923

Team: Semivoa GCMS/LPRUNOSKE

Prep Workflow: OrgExt SPE Aq28

Prep Method: Method

Status: Prepped

Prep Date/Time: 7/14/14 12:30 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1408065-01	MB		100mL	522/1,4-Dioxane FP	7	x		2.00mL		10.0000 uL/72303; 200.0000 uL/72304	
2	RQ1408065-02	LCS		100mL	522/1,4-Dioxane FP	7	x		2.00mL		10.0000 uL/72303; 200.0000 uL/72305; 200.0000 uL/72304	
3	RQ1408065-03	DLCS		100mL	522/1,4-Dioxane FP	7	x		2.00mL		10.0000 uL/72303; 200.0000 uL/72304; 200.0000 uL/72305	
4	RQ1408065-04	LCS		100mL	522/1,4-Dioxane FP	7	x		2.00mL		1.0000 mL/72306; 10.0000 uL/72303; 200.0000 uL/72304	
5	R1405373-001	RW-111	.01	100mL	522/1,4-Dioxane FP	>4	x		2.00mL		200.0000 uL/72304; 10.0000 uL/72303	
6	RQ1408065-05	R1405373-001 MS	.01	100mL	522/1,4-Dioxane FP	>4	x		2.00mL		200.0000 uL/72305; 200.0000 uL/72304; 10.0000 uL/72303	
7	RQ1408065-06	R1405373-001 DMS	.01	100mL	522/1,4-Dioxane FP	>4	x		2.00mL		10.0000 uL/72303; 200.0000 uL/72305; 200.0000 uL/72304	

### Spiking Solutions

Name: SVOA Tetrahydrofuran-D8 100ppm	Inventory ID: 72303	Logbook Ref:	Expires On: 01/09/2015
Name: 1,4-Dioxane-d8 1ppm Surr. Std.	Inventory ID: 72304	Logbook Ref:	Expires On: 01/09/2015
Name: EPA 522 LCS Spike 5ppm	Inventory ID: 72305	Logbook Ref:	Expires On: 01/04/2015
Name: EPA 522 MDL Spike 4ppb	Inventory ID: 72306	Logbook Ref:	Expires On: 01/04/2015

### Preparation Materials

Method 522 400mg charcoal filters (71466)	Eppendorf Pipette Repeater EXT #13 (41092)	Water Deionized H2O	DI System (2262)
Dichloromethane (Methylene Chloride) 99.9% MeCl2 canister (72057)	Methanol HR-GC Grade MeOH (65913)	Sodium 1-Hexanesulfonate	(40696)
Prepared Sodium Sulfate Na2SO4 (72284)			

### Preparation Steps

Step: Extraction  
 Started: 7/14/14 12:30  
 Finished: 7/14/14 14:46  
 By: LPRUNOSKE  
 Comments

00  
 14

# Preparation Information Benchsheet

Prep Run#: 212923  
Team: Semivoa GCMS/LPRUNOSKE

Prep WorkFlow: OrgExt SPE Aq28  
Prep Method: Method

Status: Prepped  
Prep Date/Time: 7/14/14 12:30 PM

Comments: \_\_\_\_\_

Reviewed By: MSJ Date: 7/14 Spike Witness: ZMIAO Date: \_\_\_\_\_

Chain of Custody

Relinquished By: _____	Date: _____	<u>Extracts Examined</u>	
Received By: _____	Date: _____	Yes	No

Analysis: 8270/522  
Date: 7/18/14

Analyst: J. Misiv... Run Method: SDI...  
Instr. 5975E Quant Method: SDI...  
LIMS Run#: 402637

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
1	Tune BFB		67580	AG226	N	
1	↓		↓	27	↓	
1	↓		↓	28	↓	
1	Tune DFPP		72043	29	↓	
1	↓		↓	30	↓	
1	Tune DFPP		72043	31	YT	
2	Tune BFB		67580	32	N	
2	Tune BFB		↓	33	YT	
3	Blk		72321	34	Y	
4	STD 1	2 ph	72313	35	Y	
5	2	10	14	36	Y	
6	3	20	15	37	Y	
7	4	100	16	38	Y	
8	5	200	17	39	Y	
9	6	500	18	40	Y	
10	7	1000	19	41	Y	
11	8	5000	20	42	Y	
12	ICV	200 ph	72323	43	YQ	
13	CCV	200 ph	72317	44	YQ	
14	R1405270-01	1.0 Blk	(7/19/14 270)	45	Y	
15	↓ -02	1.0 LCS	↓	46	YQ	
16	↓ -03	1.0 LCS	↓	47	YQ	
17	R1405353-003	1.0	(7/14/14 270)	48	Y	
18	R1405378-001	1.0	↓	49	Ⓝ	RPT 1/10
19	↓ -002	1.0	↓	50	Ⓝ	↓
20	↓ -003	1.0	↓	51	Ⓝ	↓
21	R1405404-001	1.0	(7/19/14 270)	52	Ⓝ	RPT 1/10
22	↓ -002	1.0	↓	53	Ⓝ	1/5
23	↓ -003	1.0	↓	54	Ⓝ	1/10
24	↓ -004	1.0	↓	55	Ⓝ	1/10
25	R1405405-001	1.0	↓	56	Y	
26	R1405270-04	1.0	↓	57	YQ	
27	↓ -005	1.0	↓	58	YQ	
28	R1405411-005	1.0	↓	59	Y	
29	R1405457-001	1.0	↓	60	Y	
30	R1405460-001	1.0	↓	61	Y	
31	↓ -002	1.0	↓	62	Y	
32	↓ -003	1.0	↓	63	Y	
33	↓ -004	1.0	↓	64	Ⓝ	RPT 1/10
34	↓ -005	1.0	↓	65	Ⓝ	↓

All samples = \_\_\_\_\_ mL + \_\_\_\_\_ uL Combined IS/Surr.;

Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
Primary: \_\_\_\_\_ exp: \_\_\_\_\_

Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
Secondary: \_\_\_\_\_ exp: \_\_\_\_\_

Analysis: 522/52700 Analyst: J. M. ... Run Method: SD10X22-F/BFB/TUN/DFTPRD10  
 Date: 7/24/14 Instr. 5975E Quant Method: SD10X271814  
 LIMS Run#: 402729

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
1	Blk			A6266	—	
2	Tune DFPP		72043	67	N	
2	Tune DFPP		↓	68	YT	
3	Tune BFB		67580	69	YT	
4	CCV	2ppb	72313	70	YCC	
5	RQ1405344-01	1.0 mL	(522/52700)	71	Y	
6	↓ -02	1.0 LCL	↓	72	YQ	
7	↓ -03	1.0 LCL	↓	73	YQ	
8	R1405378-001	10	(7/17/14 52700)	74	Y	
9	↓ -002	10	↓	75	Y	
10	↓ -003	10	↓	76	Y	
11	R1405404-001	10	(7/17/14 52700)	77	Y	
12	↓ -002	5.0	↓	78	Y	
13	↓ -003	10	↓	79	Y	
14	↓ -004	10	↓	80	Y	
15	CCV	200ppb	72317	81	YCC	
16	R1405460-004	10	(7/17/14 52700)	82	Y	
17	↓ -005	10	↓	83	Y	
18	RQ1405065-01	1.0 mL	(7/17/14 522)	84	Y	
19	↓ -02	1.0 LCL	↓	85	YQ	
20	↓ -03	1.0 LCL	↓	86	YQ	
21	↓ -04	1.0 LCL	↓	87	YQ	
22	R1405373-001	1.0	↓	88	Y	
23	RQ1405065-05	1.0	↓	89	YQ	
24	↓ -06	1.0	↓	90	YQ	
25	CCV	2ppb	72313	91	YCC	
26	RQ1405425-04	1.0 LCL	(7/17/14 522)	92	YQ	
27	R1405425-001	1.0		93	Y	Surr ↓
28	↓ -002	1.0		94	Y	
29	↓ -003	1.0		95	Y	
30	↓ -004	1.0		96	Y	
31	↓ -005	1.0		97	Y	
32	↓ -006	1.0		98	Y	
33	↓ -007	1.0		99	Y	
34	↓ -008	1.0		300	Y	
35	CCV	200ppb	72317	01	YCC	
36	R1405545-001	1.0	(7/17/14 52700)	02	Y	
37	R1405548-001	1.0	↓	03	(N)	REP 1/2
38	↓ -002	1.0	↓	04	(N)	REP 1/0
39	↓ -003	1.0	↓	05	(N)	REP 1/5

All samples = \_\_\_\_\_ mL + \_\_\_\_\_ uL Combined IS/Surr.;  
 Primary: \_\_\_\_\_ exp: \_\_\_\_\_ Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Primary: \_\_\_\_\_ exp: \_\_\_\_\_ Secondary: \_\_\_\_\_ exp: \_\_\_\_\_









FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr) July 11-2014  
 Field Personnel Randy Morgan  
 Site Name Auriga Spartanburg SC  
 AECOM Job # 60280417  
 Well ID\* RW-111  
 Upgradient \_\_\_\_\_ Downgradient Clear/Supply Sidegradient \_\_\_\_\_ Source \_\_\_\_\_  
 Weather Conditions 83°  
 Air Temperature \_\_\_\_\_ ° F  
 Total Well Depth (TWD) = 61.00 1/100 ft  
 Depth to Ground Water (DGW) = 8.25 1/100 ft  
 Length of Water Column (LWC) = TWD - DGW = 52.75 1/100 ft  
 1 Casing Volume (OCV)\* = LWC x 0.163 = 8.60 gal  
 3 Casing Volumes = 25.80 gal = Standard Evacuation Volume  
 Method of Sample Evacuation Peristaltic Pump  
 Method of Sample Collection Peristaltic Pump  
 Total Volume of Water Removed 2.52 gal

Casing Diameter 2.0 inches  
 Casing Material PVC  
 Measuring Point Elevation \_\_\_\_\_ 1/100 ft  
 Height of Riser (above land surface) \_\_\_\_\_ 1/100 ft  
 Land Surface Elevation \_\_\_\_\_ 1/100 ft  
 Screened Interval \_\_\_\_\_ 1/100 ft  
 Dedicated Pump or Bailor YES \_\_\_\_\_ NO X Type \_\_\_\_\_  
 Steel Guard Pipe Around Casing YES X NO \_\_\_\_\_  
 Locking Cap YES \_\_\_\_\_ NO \_\_\_\_\_  
 Protective Post/Abutment YES \_\_\_\_\_ NO \_\_\_\_\_  
 Well Integrity Satisfactory YES X NO \_\_\_\_\_  
 Yield LOW MODERATE \_\_\_\_\_ HIGH X  
 Comments/Observations \_\_\_\_\_  
 Sample Time: 0952

\* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) =  $\pi r^2 h$  (7.48), where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES	
VOLUME PURGED (gallons)	
TIME (Military)	
Water Level (ft BTOC)	
pH (S.U.)	
Sp. Cond. (mS/cm)	
Water Temp. (°C)	
Turbidity (NTUs)	
DO - (mg/L)	
Salinity (ppt)	
ORP (mV)	

COMMENTS/OBSERVATIONS