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SITE ASSESSMENT, REMEDIATION, & REVITALIZATION

Ms. Kimberly Kuhn, Project Manager
State Voluntary Cleanup Program
Site Assessment, Remediation & Revitalization Division
S.C. Dept. of Health & Environmental Control
2600 Bull Street
Columbia, SC 29201

RE: REMEDIAL INVESTIGATION REPORT
ASCEND PERFORMANCE MATERIALS OPERATIONS, LLC
1515 HIGHWAY 246 SOUTH
GREENWOOD, SC 29646
(HRP #ASC7005.GW)

Dear Ms. Kuhn:

On behalf of Ascend Performance Materials Operations, LLC (Ascend), HRP Associates, Inc. (HRP) presents the enclosed Remedial Investigation Report regarding Ascend's Greenwood, South Carolina facility. This report has been revised based on comments provided by DHEC in your letter dated 9/23/2020. Each DHEC comment is listed below followed by Ascend's response.

1. The Department noted the analytical results for monitoring wells OW-6D, OW-8S, OW-7S, OW-22S, OW-23S and OW-23D were missing from the RI report. Please provide the data for these monitoring wells to the Department in the revised RI report.

   RESPONSE: Five of the six referenced monitoring wells were sampled in 2017. OW-6D is not considered a former Waste Pond AOC monitoring well, was not presented for sampling in the RI Work Plan (specifically the SAP Addendum dated March 13, 2017), and has not been sampled (historical reports state that OW-6D was installed in the 1980's to evaluate the railroad unloading area; no impacts were identified). Laboratory analytical reports for the five wells that were sampled in July and September 2017 were included in the subsequent semi-annual reports but have been added to the RI Report as Appendix A-1.

2. A passive soil gas survey was conducted at the burn pit area in December 2019. The highest concentrations of PCE and TCE were in sample locations number twenty (20) and number (40). Which indicted the location of the Burn Pit isfurther north, then originally thought. Since this discovery, no further assessment has been conducted in this area to further determine the extent of the source area in the Burn Pit. Additional assessment is needed in this area to fully define and understand the source area. This could be completed as an RI addendum or as part of the Feasibility Study Work

Plan.

RESPONSE: Additional assessment is planned for the former Burn Pit area, preferably as part of Pre-Design Investigation after the FS has been completed and a remedial technology has been selected and approved by DHEC.

3. The groundwater extraction system has limited migration of the contamination into the nearby surface water, especially in the construction debris area. However, the system has limited effect on remediating the contamination in the source area. Remedial Alternatives for this area should be evaluated during the FS process.

   RESPONSE: In the former Burn Pit area, the source area will be the focus of the FS, as stated above. In the CDS area, remedial alternatives to groundwater extraction will be considered, primarily to minimize long-term O&M obligations; however remedial alternatives at the CDS source area, which is essentially a landfill that has been capped with DHEC approval, may not be feasible.

4. The Department sampled three (3) water supply wells in April 2019 at residences located across the street from the Ascend property. The analytical results for three (3) water supply wells were all non-detect. The Receptor Survey should be updated to include the locations of these wells in the revised RI report.

   RESPONSE: The three water supply wells sampled by DHEC have been added to the Receptor Survey in the RI Report.

5. In the RI report there were only iso-concentration maps for TCE and 1,1-DCE. Please provide additional iso-concentration maps for PCE, 1,4-Dioxane, vinyl chloride, and 1,2-DCA in the revised RI report. RESPONSE:

   Sixteen additional iso-concentration maps have been added to the RI Report, as requested.

Please contact Shaun Malin or me at 800-752-3922 with any questions regarding the content of the enclosed report.

Sincerely,



Daniel E. McDonnell, PG
Senior Project Manager

cc: Diane Sackmann (Ascend)
Justin Harris (Ascend)
Lucas Berresford (SC DHEC)
Shaun Malin (HRP)

Enclosure

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REMEDIAL INVESTIGATION REPORT

Ascend Performance Materials Operations, LLC
1515 Highway 246 South
Greenwood, South Carolina 29646

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SITE ASSESSMENT, REMEDIATION, & REVITALIZATION

Prepared For:

Ascend Performance Materials Operations, LLC
c/o: Diane Sackmann
1515 Highway 246 South
Greenwood, SC 29646

Prepared By:

HRP Associates, Inc.
1327 Miller Road, Suite D
Greenville, SC 29607
HRP #: ASC7005.GW

Issued On: October 30, 2020

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GENERAL INFORMATION

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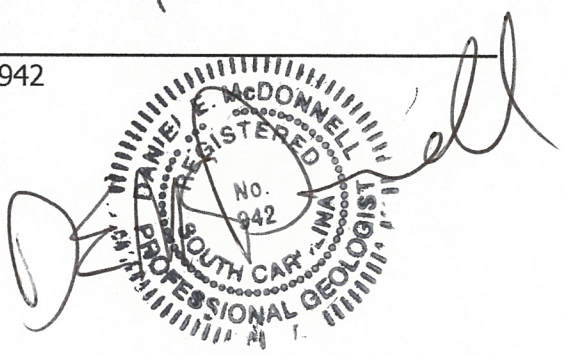
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1.0 INTRODUCTION

On behalf of Ascend Performance Materials Operations, LLC (Ascend), HRP Associates, Inc. (HRP) has prepared this Remedial Investigation (RI) Report in accordance with the Voluntary Cleanup Contract (VCC) executed between Ascend and the South Carolina Department of Health and Environmental Control (SCDHEC) on June 30, 2016. This RI Report provides the results of an investigative scope of work pertaining to the facility currently occupied by Ascend located at 1515 Highway 246 South in Greenwood, Greenwood County, South Carolina (the Site) (**Figure 1**).

RI activities were presented in the RI Work Plan, prepared by HRP and submitted to SCDHEC in September 2016. In their letter dated January 26, 2017, SCDHEC requested an updated Sampling and Analysis Plan (SAP) which was prepared by HRP, amended on March 13, 2017 and approved by SCDHEC on March 14, 2017.

This RI Report has been prepared to satisfy the technical intent of the EPAs National Contingency Plan dated September 15, 1994 and the associated EPA's Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA, Interim Final, dated October 1988.

1.1 Objectives

The first milestone of a Voluntary Cleanup Program is the completion of a Remedial Investigation (RI). The objectives of the RI for this Site, as defined within the VCC, include the determination of the source, nature, and extent of contamination at the Site associated with three specific areas of concern (AOC):

Former Construction Debris Site (CDS) area
Former Burn Pit (BP) area
Former Waste Ponds (WP) area

Note that some RI objectives were achieved prior to HRP's Work Plan as part of initial remedial activities performed at the Site beginning circa 1984 during which significant investigation, remediation, and monitoring occurred. Historical environmental investigations are summarized in Section 4 of this RI Report. HRP has been conducting routine (semi-annual) monitoring and reporting since 2017.

1.2 Report Organization

This RI Report has been organized into the following sections:

Section 1 – Introduction: Introduces the Site, presents the objectives of the RI, and describes the organization of the RI Report.

Section 2 - Site Background and Historical Setting: Provides a complete property description and introduces the Areas of Concern.

Section 3 – Geological and Hydrogeological Setting: Discusses regional and local geology and hydrogeology, including Site aquifer characteristics.

Section 4 - Previous Environmental Investigations and Corrective Actions: Provides a summary of the most significant environmental studies and remedial measures conducted prior to the execution of the VCC.

Section 5 – VCC Investigation Methods and Results: Provides a summary of environmental investigations conducted since the execution of the VCC.

Section 6 – Nature and Extent of Contamination: Presents the current nature and extent of contamination in soil, groundwater, and surface water.

Section 7 – Remediation System Operations and Effectiveness: Summarizes the most recent data regarding the operation of the groundwater extraction system.

Section 8 – Risk Assessment: Presents the Conceptual Site Model, exposure pathways, and current and future risk to human health and the environment.

Section 9 – References.

2.0 SITE BACKGROUND AND PHYSICAL SETTING

Information regarding the Site and surrounding properties was obtained from files maintained by Ascend, various state and local regulatory agency files and databases, and information compiled as part of the development of the RI Work Plan.

2.1 Property Description

The Ascend Greenwood facility is located at 1515 Highway 246 South in Greenwood, Greenwood County, South Carolina and is centered at North 34° 13' 54.69" latitude and West 82° 03' 09.12" longitude. The Site is approximately 573 feet above sea level, and is identified by the County of Greenwood to include Tax Map Serial Numbers 6887-203-437, 6887-158-470, 6887-275-615, and 6887-183-460.

The 406.8-acre Site was purchased by Ascend in June 2009 from Solutia Inc. The plant was initially constructed in 1960 by Chemstrand Co., which became a wholly owned subsidiary of Monsanto Chemical Co. the following year. Monsanto then divested their Nylon business, creating the sister company Solutia. SK Capital bought the nylon business from Solutia and created Ascend in 2009. The plant has historically manufactured bulk continuous filament, industrial fibers, and polymer flake.

2.1.1 Site Improvements

The Site consists of two primary manufacturing areas referred to as the North and South plants. Several warehouse buildings, employee parking areas, a process water holding basin and a railroad spur also exist at the Site. A Site location map is presented as **Figure 1** and an aerial overview of the Site is provided as **Figure 2**.

Approximately 30% of the Ascend facility is developed as manufacturing areas. The remaining 70% of the Site is wooded, undeveloped land that comprises the northern 287 acre parcel (Parcel #6887-275-615). This undeveloped acreage is accessible by several unpaved roadways and is currently utilized for timber as part of the Site's Forest Management Plan.

2.1.2 Surface Water

Surface water run-off from precipitation generally flows toward two streams (North Creek and South Creek), originating along the southeastern and northwestern Site boundaries (**Figure 2**). Each stream flows approximately 4,000 feet in an easterly direction before converging along the eastern extent of the Site to form an unnamed tributary of Lake Greenwood. This tributary leaves the Site and flows an additional approximately 4,000 feet through the adjacent, undeveloped acreage to the east (also owned by Ascend) before discharging to Lake Greenwood approximately one mile from the facility. A constructed duck pond is present along this unnamed tributary approximately 1,000 down-stream from the convergence of North Creek and South Creek.

Lake Greenwood is classified by SCDHEC as Fresh Water (FW) which is "suitable for primary and secondary contact recreation, industrial and agricultural uses, and as a source for drinking water

supply after treatment. It is also suitable for fishing and the survival and propagation of a balanced indigenous aquatic community of fauna and flora."

2.1.3 Property Deed and Ownership

Property ownership details for the four parcels of land are provided below:

Greenwood County Tax Map #6887-203-437 118.86 acres		
Deed Book/Page	**Date**	**Ownership**
N/A	Pre 1959	Unknown
140-279 to 142-344	7/23/1959 to 10/14/1959	Chemstrand Corporation
179-231	1/28/1964	Monsanto Chemical Company
491-317	9/5/1997	Solutia Inc.
1159-128	6/1/2009	Ascend Performance Materials
Greenwood County Tax Map #6887-158-470 0.36 acres		
N/A	Pre 1959	Unknown
140-279 to 142-344	7/23/1959 to 10/14/1959	Chemstrand Corporation
179-231	1/28/1964	Monsanto Chemical Company
491-317	9/5/1997	Solutia Inc.
501-188	12/22/1997	Greenwood County
Greenwood County Tax Map #6887-275-615 287.496 acres		
N/A	Pre 1959	Unknown
140-279 to 142-344	7/23/1959 to 10/14/1959	Chemstrand Corporation
179-231	1/28/1964	Monsanto Chemical Company
491-317	9/5/1997	Solutia Inc.
1159-128	6/1/2009	Ascend Performance Materials
Greenwood County Tax Map #6887-183-460 0.09 acres		
N/A	Pre 1959	Unknown
140-279 to 142-344	7/23/1959 to 10/14/1959	Chemstrand Corporation
179-231	1/28/1964	Monsanto Chemical Company
491-317	9/5/1997	Solutia Inc.
501-188	12/22/1997	Greenwood County

2.1.4 Adjacent Properties

The general area surrounding the Site comprises a mix of undeveloped property, rural residential properties, and industrial properties. The Site is bounded by Highway 246 to the south, followed by commercial, residential and industrial properties. To the west, the Site is bounded by a CSX railroad, followed by residential and undeveloped properties. Adjoining the eastern portion of the Site is an approximate 750 acre parcel of land also owned by Ascend (Greenwood County Tax Map #6887-546-677). This parcel is undeveloped, wooded land that includes approximately 1,725 feet of frontage property on Lake Greenwood. This acreage is not incorporated within the Site boundaries.

Twenty properties are currently considered immediately adjacent to the Site:

9 residential;
3 commercial;
1 is undeveloped;
1 is industrial (Kaiser Aluminum/Revstone Contech Forgings);
1 is a gas station;
1 is a fire station;
1 is an automotive junk yard;
1 is a railroad; and,
2 are owned by Ascend.

2.2 Areas of Concern

HRP conducted a focused RI of the three areas of concern (AOC) detailed in the June 2016 VCC executed between Ascend and the SCDHEC. These AOCs include the Construction Debris Site (CDS), the former Burn Pit (BP) area, and the former Waste Ponds (WPs). These focus areas are depicted on **Figure 2**. The former BP area encompasses approximately 30 acres of which approximately 90% is wooded; the CDS area comprises approximately 60 acres of which approximately 85% is wooded.

2.2.1 Construction Debris Site

The CDS is located approximately 875 feet northeast of the manufacturing and warehouse facilities. According to previous reports, off-product nylon, process chemicals, and waste products were buried in this area from approximately 1960 to 1970.

In 1983, a soil and groundwater assessment was performed in the area of the CDS which resulted in the identification of solvent related volatile organic compounds (VOCs) in the subsurface. The CDS area was capped in 1985 with low permeability clay to prevent infiltration and subsequent source migration. Groundwater monitoring wells were installed to assess groundwater contamination. A groundwater recovery system was later installed to provide hydraulic control of the area. Constituents of concern detected in CDS groundwater include tetrachloroethene (PCE), trichloroethene (TCE), 1,1-dichloroethene (DCE), 1,2-DCE, vinyl chloride, chloroform, 1,1,1-trichlorethane (TCA), 1,1-dichloroethane (DCA), chloroethane, and 1,4-dioxane (Golder Associates, Inc., 2016).

The groundwater recovery system within the CDS comprises three extraction wells (i.e., EW-01, EW-02, and EW-03). Routine groundwater monitoring has historically been conducted semi-annually at the CDS and has included seven wells (OW-1, OW-2D, OW-13D, OW-15D, OW-16, OW-17, and OW-21) and two surface water locations along South Creek (South Creek Upstream and South Creek Downstream), as depicted on **Figure 2**.

2.2.2 Former Burn Pit Area

The former BP area is located north-northwest of the main manufacturing building. VOCs were first detected in groundwater within the BP area during a voluntary environmental assessment conducted by Monsanto in 1984. A network of observation wells and piezometers was installed to monitor groundwater impacts in this area. Additionally, two groundwater extraction wells (EW-04D

and EW-32S) were installed to obtain hydraulic control of constituent migration in the former BP area. VOCs detected in former BP area groundwater include PCE, TCE, DCE, chloroform, TCA, 1,1,2-TCA, DCA, and 1,4-dioxane (Golder Associates, Inc., 2016).

Routine groundwater monitoring has historically been performed semi-annually at ten observation wells and piezometers (OW-5S, OW-24S, OW-25S, OW-26S, OW-27D, OW-28D, PZ-4S, PZ-29S, PZ-30S, and PZ-31S) and at two North Creek surface water stations (North Creek Upstream and North Creek Downstream). BP monitoring locations are depicted on **Figure 2.** Additionally, a surface water sample has been collected from the down-gradient Duck Pond located ¼ mile downstream.

2.2.3 Former Waste Ponds

Prior to 1984, two equalization basins (former Waste Ponds) were utilized to receive process water before it was pumped to the Greenwood Metropolitan Sewer District Publicly Owned Treatment Works (POTW) wastewater treatment facility via an Industrial User Permit. These ponds were reportedly 20 feet by 40 feet by 8 feet, and were separated by a common dike. During a voluntary environmental assessment conducted by Monsanto in 1984, one groundwater monitoring well (OW-7S) was installed in the inferred down-gradient direction of the former Waste Pond area to evaluate groundwater quality.

Total VOCs were detected in the groundwater sample collected from this monitoring well at 0.88 milligrams per liter (mg/l). Specifically, concentrations of TCE, TCA, DCA, and DCE were reported. The former Waste Ponds have not been assessed since the initial 1984 assessments. The former Waste Pond groundwater monitoring network is depicted on **Figure 2.**

3.0 GEOLOGICAL AND HYDROGEOLOGIC SETTING

This section describes regional and site-specific geology, hydrogeology, and aquifer characteristics as it relates to groundwater movement at the Site.

3.1 Regional Geology

The regional geology of the Site is based on information obtained from Horton and Zullo's *Geology of the Carolinas* (1991) and the US Geological Survey's *Groundwater Atlas of the United States* (2000).

The Ascend facility is located within the Piedmont Physiographic Province. The Piedmont Province is an area of varied topography that ranges from lowlands to peaks and ridges of moderate altitude and relief. The Piedmont is characterized by saprolite (weathered bedrock) overlying a transition zone of highly fractured bedrock. The transition zone grades into more competent, less fractured rock with depth. Bedrock of the Piedmont consists of metamorphic and igneous rocks ranging in age from Precambrian to Paleozoic that have been sheared, fractured, and folded.

Specifically within the Piedmont Province, the Site is located in the "Charlotte Belt". The Charlotte Belt consists of widely fractured, sheared, and intruded plutonic rocks that display a distinctive granitoid texture. Additionally, strong compositional layering suggests that areas of bedrock were derived from sedimentary or pyroclastic rocks. The Charlotte Belt is characterized by numerous plutons with granitic to gabbroic compositions that have intruded gneiss, schist, metavolcanic rocks, and metamorphic rocks of Late Proterozoic to Carboniferous age. The belt extends approximately 600 kilometers from Virginia to Georgia, and is bounded by the Kings Mountain Belt to the west and Carolina Slate Belt to the east.

Piedmont aquifers comprise bedrock overlain by unconsolidated material (regolith). Regolith is comprised of a) saprolite, a layer of earthy, decomposed rock developed by in-situ weathering of the bedrock, b) soil that develops on the upper part of the saprolite, and c) alluvium, which is mainly confined to stream valleys and may overlie soil, saprolite, and bedrock. Saprolite is the largest component of the regolith, and can have large variances in thickness.

Groundwater in Piedmont aquifers is generally unconfined. Artesian conditions exist locally when wells penetrate deeply buried fractures that are hydraulically connected to recharge areas at higher altitudes or in places where the regolith is clayey and forms a confining unit. Water enters the ground in recharge areas and percolates vertically downward through the unsaturated zone, and then moves laterally to points of discharge.

3.2 Localized Geology and Hydrogeology

Local geologic information was obtained from published maps and literature, and site-specific information was developed from lithologic sampling conducted during previous soil investigations and the installation of groundwater monitoring wells by Sirrine (1984-1985) and Geraghty & Miller (1985-1992).

3.2.1 Site Geology

Boring logs from previous environmental investigations indicate that the geology beneath the Site consists of surficial residual soils, a saprolite zone, and bedrock (Sirrine, 1984). The surficial soils, which consist of reddish brown, quartz-rich, silty sands and clays, formed due to in-situ differential chemical weathering of feldspar- and iron-rich bedrock. Specifically, silty-clay soils were observed at the Site during the installation of various soil borings and groundwater monitoring wells. The underlying saprolite material has coarser intervals containing remnants of the parent bedrock. The thickness of the saprolite, when present, is estimated to range up to more than 100 feet at topographically higher areas of the Site (Sirrine, 1984).

The saprolitic overburden transitions to a weathered bedrock zone, and then competent bedrock is encountered. Depth to top of bedrock (unweathered to slightly weathered), as determined during monitoring well installation, ranges from 10 feet to greater than 80 feet below ground surface (bgs). Bedrock at the Site is reported to be primarily of granite, diorite, and biotite gneiss composed of biotite, sericite, feldspar, and chlorite. Bedrock is exposed in small outcrops at various locations across the Site particularly in the stream beds (Sirrine, 1984). At one outcrop northeast of the Construction Debris Site (CDS), a large northwest-trending quartz dike cross cuts the bedrock. Large quartz fragments are abundant in the saprolite (Sirrine, 1984). Available boring logs from previously installed groundwater wells generated during prior environmental investigations have been summarized and are included in **Table 1**. Geologic cross-sections are included as **Figures 3** and **4.**

3.2.2 Hydrologic Setting

Topography at the Site ranges in elevation from approximately 560 feet (ft) above mean sea level (MSL) near the manufacturing and warehouse buildings to 460 ft above MSL where the North Creek and South Creek converge (**Figure 2**). The relief at the Site varies from moderate, between North and South Creek, to steep, at the edges of the creeks.

Groundwater occurs in the saprolite overlaying bedrock and within the bedrock itself. Within the saprolite, groundwater occurs primarily under water-table (unconfined) conditions. Groundwater occurs within and along fractures and joints within the bedrock. In general, groundwater within the bedrock also occurs under water-table (unconfined) conditions, but in some areas artesian (confined) conditions are encountered where highly fractured zones are penetrated by wells. The position of the water table is included in the geologic cross-sections (**Figures 3** and **4**).

The direction and movement of shallow groundwater through soil is dependent upon soil type and the likely presence of relict bedrock structures and textures of the underlying saprolite. Fractures, faults, folds, and foliation planes affect the migration of groundwater in fractured bedrock at depth. Groundwater flow at the Site generally follows surface topography. Aquifer recharge occurs locally by surface water infiltration in the higher elevations of the Site. As is typical in the Piedmont Province, the majority of the water entering the aquifer is expected to remain in the saprolite and partially weathered bedrock until it is discharged at or near the ground surface at stream valleys and water bodies. Small creeks and streams located on the Site may act as groundwater flow divides particularly for the overlying saprolite aquifer.

3.2.3 Groundwater Flow

Recharge to the Piedmont groundwater system is highly variable because it is determined by local precipitation and runoff, which are influenced by topographic relief and the capacity of the land surface to accept infiltrating water. Most of the recharge in the Piedmont takes place in inter-stream areas. Almost all recharge is from precipitation that enters the aquifers through the porous regolith. Recharge water moves laterally through the regolith and typically discharges to a nearby stream or depression during or shortly after a precipitation event. Some of the water, however, moves downward through the regolith until it reaches the bedrock and enters fractures in crystalline rocks.

Depth to groundwater at the Site historically ranges from approximately 5 feet bgs at OW-21 in the CDS area to approximately 45 feet bgs at EW-4D in the former BP area. Based on historic water level data and potentiometric surface maps included in the Semi-Annual Remediation System Effectiveness Reports, groundwater in the former BP area typically flows north to northwest towards North Creek, while flow in the CDS area is generally to the east toward South Creek. Extraction wells installed to provide hydraulic control of impacted groundwater influence groundwater flow in their vicinity. Seasonal variations in water levels have been documented, but do not appear to result in significant changes in groundwater flow rate and direction over time.

3.2.4 Aquifer Measurements

Several saprolite aquifer and bedrock aquifer groundwater monitoring wells were installed as part of the initial environmental assessment of the Site in 1984/1985. Aquifer tests conducted at the former BP area by Geraghty & Miller, Inc. (Interim Corrective-Action for the Former Burn Pit Area, August 5, 1992) were used to calculate the transmissivity of bedrock in the vicinity of OW-4D (now referred to as EW-4D). The transmissivity at OW-4D was calculated at 1,400 gallons per day per foot (gpd/ft), with an estimated storativity value of 0.007. Results of the 1992 hydraulic testing also indicated that the soil/saprolite and underlying bedrock units are hydraulically connected across the Site. Well yields of extraction wells in the former BP and CDS areas range from less than 1 to more than 20 gallons per minute (Golder Associates, Inc., 2016).

Based on the 1992 pump test performed by Geraghty & Miller, Inc. at OW-4D, the hydraulic conductivity (k) of the BP and CDS areas was estimated to be on the order of 3.74 feet per day (Golder Associates, Inc., 2016).

Additional aquifer evaluation parameters (hydraulic gradients and average linear groundwater flow rates) are updated routinely as part of semi-annual reporting. The most recent evaluation calculations are based on March 2020 data and are presented and discussed in Section 5.6.

4.0 PREVIOUS ENVIRONMENTAL INVESTIGATIONS AND CORRECTIVE ACTIONS

This section of the RI Report provides a synopsis of the various environmental assessments, investigation reports, interim remedial activities, and regulatory correspondence completed and/or generated throughout the course of this 30 year project prior to the current phase of RI investigative activities. Note that a comprehensive record of all documentation pertinent to the environmental history of the Site is not appended to this RI Report. This is due to a) the extensive volume of material, and b) the number of stakeholders (i.e., property owners and environmental consultants) who have contributed to the remedial effort to date. Historical reports generated by Ascend and prior stakeholders are maintained by the SCDHEC BLWM.

The following documents summarize milestone investigative and remedial efforts performed at the Site to date:

Preliminary Soil and Groundwater Investigation (Sirrine Environmental Consultants, December 22, 1983);
Plant Wide Hydrogeology and Groundwater Quality Assessment (Sirrine Environmental Consultants, November 1, 1984);
Interim Corrective-Action Plan for the Former Burn Pit Area (Geraghty & Miller, August 5, 1992);
Engineering Report – Groundwater Recovery (Geraghty & Miller, October 27, 1994);
Construction Debris Site Correspondence (SCDHEC to Monsanto, February 21, 1996);
Annual Effectiveness Reports (Solutia, 1998 through 2006);
VCP Invitation (SCDHEC to Ascend, May 23, 2012);
VCP NOI (Ascend to SCDHEC, June 25, 2016);
Historical Summary of Potential Contamination Areas (Ascend to SCDHEC, December 18, 2014); and
SCDHEC Response to Historical Summary Report (SCDHEC to Ascend, February 23, 2015).

4.1 Previous Environmental Investigations

The following sections provide a brief summary of the aforementioned documents.

4.1.1 Preliminary Soil and Groundwater Investigation

A preliminary investigation was conducted at the CDS in December 1983 by Sirrine Environmental Consultants, Inc. (Sirrine). Four borings and two observation wells were advanced within or adjacent to the CDS. Soil samples were reported to contain strong organic odors, but laboratory data was not provided within this limited investigation summary letter.

4.1.2 Plant Wide Hydrogeology and Groundwater Quality Assessment

Sirrine conducted a plant-wide hydrogeology and groundwater quality assessment in November 1984 to evaluate potential impact to Site groundwater resulting from past and/or present chemical management practices. Groundwater quality was evaluated in seven areas of the Site via the installation of 12 groundwater monitoring wells. VOCs were detected in samples collected from

monitoring wells installed in the former BP area and in the former Waste Pond area. VOCs were not detected in samples collected from Site boundary observation wells.

4.1.3 Former Drum Storage/Open Pit Burning/Equipment Storage Area, Equalization Basins Area and Other AOC

Sirrine completed a September 1985 investigation to further evaluate the areas of concern identified during the November 1984 assessment. Soil and groundwater quality were specifically investigated within the former Burn Pit and the former Waste Pond area. Additional areas of concern were assessed during the investigation; however, no impacts were observed.

Eight shallow soil borings and five groundwater monitoring wells were installed within the former BP area during the September 1985 investigation. Three groundwater monitoring wells and one shallow lysimeter were installed down-gradient of the former Waste Pond area.

4.1.4 Interim Corrective Action Plan - Former BP Area

The former BP area was further evaluated by Geraghty & Miller (G&M) in 1992 for the purpose of interim corrective action design (i.e., groundwater treatment system). G&M installed four saprolite piezometers, conducted aquifer testing, and collected and analyzed groundwater and surface water samples from the former BP monitoring network. Total VOC concentrations in the former BP area saprolite aquifer ranged from approximately 0.02 mg/L (PZ-31S) to 36 mg/L (OW-26S) in June 1992. Total VOC concentrations in the underlying bedrock aquifer ranged from 0.093 mg/L (OW-28D) to 8.04 mg/L (OW-27D) in June 1992. A conceptual design for a groundwater recovery system was subsequently proposed to treat elevated concentrations of VOCs from both aquifers based on information obtained from the former BP area in June 1992.

G&M's August 5, 1992 report also detailed an interim corrective action monitoring schedule. Routine monitoring tasks comprised quarterly water elevation measurements, as well as groundwater and surface water sample collection and analysis.

4.1.5 Engineering Report – Former BP Area Groundwater Recovery

SCDHEC approved the 1992 Interim Corrective Action Plan in 1994, and requested that a report be prepared to detail the final design of the former BP area groundwater recovery system. G&M's October 27, 1994 Engineering Report included a detailed design of the interim groundwater recovery system. The groundwater recovery system consists of two extraction wells (EW-4D and EW-32S) and conveyance pipelines to the facility's process water holding basins and ultimate discharge to the POTW. The estimated flow rate to maintain an effective cone of depression was calculated to be 25 gallons per minute (gpm) for the bedrock aquifer, and 5 gpm for the saprolite aquifer. Extracted groundwater is pumped to a wastewater lift station and subsequently discharged to the facility's process water holding basins and ultimately discharged to the local POTW. Plant effluent is conveyed to the Greenwood POTW. Design and schematics for the extraction wells and the groundwater recovery system are included in the 1994 Engineering Report.

4.1.6 Construction Debris Site Correspondence

A February 21, 1996 letter from SCDHEC to Monsanto Company approved a groundwater monitoring frequency reduction (i.e., quarterly to semi-annually) for nine wells and two surface water stations associated with the CDS area. SCDHEC clarified in this letter that the former BP area monitoring frequency would remain on a quarterly schedule. SCDHEC also requested in this correspondence that routine monitoring data and information pertaining to the groundwater recovery system be compiled in one report (i.e., an annual effectiveness report).

4.1.7 Voluntary Cleanup Program

On May 23, 2012, Ascend received an invitation from SCDHEC to participate in the South Carolina Voluntary Cleanup Program (VCP). Regulatory authority for the Site was transferred from the Bureau of Water Quality to the Bureau of Land and Waste Management's (BLWM) Division of Site Assessment. Beginning in 2012, oversight activities would be ultimately conducted in accordance to the final, executed Voluntary Cleanup Contract (VCC). Ascend submitted a notice of intent to participate in the VCP on June 25, 2012.

4.1.8 Historical Summary of Potential Contamination Areas

A comprehensive historical evaluation of potential sources of contamination was submitted to SCDHEC by Ascend on December 18, 2014. The purpose of the summary report was to define an initial scope of work for the forthcoming VCC. The report included a review of historical aerial photographs, interviews with current and retired employees, historical facility layouts and drawings, historical environmental reports, and release/spill reports. Ascend proposed that the RI focus on the former BP area and the CDS based on information compiled in the historical summary.

4.1.9 SCDHEC Response to Historical Summary Report

On February 23, 2015, SCDHEC issued a letter response regarding the December 2014 Historical Summary Report. SCDHEC indicated that although areas of concern were identified and discussed in detail within the report, the groundwater in the area of the former Waste Pond area was not adequately addressed. SCDHEC requested that the former Waste Pond area be assessed during the forthcoming RI in addition to further evaluating the former BP area and the CDS.

4.2 Corrective Actions to Date

Remedial efforts have historically focused on the former Burn Pit area and the Construction Debris Site. The following sections summarize corrective actions performed to date.

4.2.1 Construction Debris Site

A low-permeability clay cap was placed atop the CDS in 1985 to limit infiltration and subsequently provide source control. The cap was designed with three feet of clay material followed by a one foot cover of topsoil/clay mix. Borrow material from other areas of the Site were evaluated to determine their suitability as a capping material (Report of Borrow Area Investigation, S&ME, September 27, 1984).

4.2.2 Groundwater Recovery System

Groundwater extraction wells have been utilized down-gradient of the former BP area and the CDS to provide hydraulic control of impacted groundwater. The groundwater recovery system consists of extraction wells, submersible pumps, conveyances pipelines, lift stations, appurtenances, and controls. Impacted groundwater is conveyed to the facility's process water holding basins prior to discharge to the POTW via an Industrial User Permit.

Five groundwater extraction wells currently provide hydraulic control of impacted groundwater at the Site. Down-gradient extraction wells EW-4D and EW-32S are associated with the former BP area while EW-1, EW-2, and EW-3 operate down-gradient of the CDS (**Figure 2**). The volume of groundwater pumped from each extraction well is calculated based on routine flow meter readings.

4.3 Annual Effectiveness Reports

Routine water quality monitoring (groundwater and surface water) has been performed throughout the last 20 years in the former BP area and the CDS in accordance with SCDHEC's 1996 correspondence. Effectiveness reports tabulate and evaluate water quality data, summarize site activities performed during the annual reporting period, and provide an assessment of the groundwater recovery system's effectiveness.

Beginning in 2017, HRP has conducted the routine (semi-annual) monitoring and reporting. The most recent semi-annual report was submitted by HRP to SCDHEC on February 2, 2020. The March 2020 sampling event was performed using the field sampling methods and procedures that have been used during previous semi-annual sampling events in accordance with the 2017 SAP.

The results of the March 2020 sampling event are presented and discussed in Sections 5 and 6; the inclusion of the March 2020 data as part of this RI Report negates the need for a separate semi-annual report as the RI Report is submitted in lieu of a semi-annual report.

5.0 VCC INVESTIGATION METHODS AND RESULTS

This section provides a summary of activities and investigations that were conducted after the VCC was executed to meet the requirements of the VCC and fill data gaps identified by the VCC. Details of these tasks were submitted to SCDHEC at the time they were completed. They are summarized herein to provide the generalized results and findings that constitute the majority of the RI that has been performed.

5.1 Receptor Survey

The presence of potential receptors such as potable water supplies (e.g., springs, wells, intakes, etc.) and sensitive environments (e.g., parks, estuaries, endangered species, etc.) was initially assessed in 2017 as proposed in the RI Work Plan. Provided as part of the Semi-Annual Water Quality Monitoring Report dated July 18, 2017, the receptor survey included:

- the identification of current potable wells, springs, and surface water intakes within a half-mile of Site boundaries;
- a potable well survey via the visual inspection of the adjacent commercial/industrial properties and neighborhoods within a half-mile of the Site; and
- the review of publicly available supply well databases (SCDNR, SCDHEC, Greenwood County Health Department, and Greenwood Public Works Department).

The Receptor Survey was updated in July 2020 and is discussed in Section 8. Information obtained during the receptor survey is utilized to evaluate potential exposure pathways and identify potentially at-risk receptors.

5.2 Site Survey

In order to establish a comprehensive inventory of existing Site monitoring wells, a South Carolina certified land surveyor completed a well survey on April 6, 2017. In addition, local Site features such as dirt roads and streams were revised and the Site base map was updated to reflect current conditions.

5.3 Semi-Annual Monitoring and Reporting

Beginning in April 2017, HRP conducted semi-annual monitoring and reporting. As proposed in the RI Work Plan, HRP utilized passive diffusion bags (PDBs) as an alternative to conventional purge and sample methods (where appropriate) in order to conserve time and expenses. As part of the initial PDB sampling, split samples were collected that successfully demonstrated the validity of the PDB method. Subsequent sampling events utilized the PDB method whenever conditions were suitable. The sampling program for the semi-annual monitoring was updated as new wells and surface water locations were added, as described below.

5.4 Supplemental Investigations

Three decades of routine monitoring and groundwater extraction were completed at the former BP area, the CDS, and the former Waste Pond area prior to execution of the VCP. As indicated in the area, the CDS, and the former Waste Pond area prior to execution of the VCC. As indicated in the VCC, the groundwater plume periphery associated with these AOCs was not delineated horizontally or vertically to constituent regulatory standards.

As such, a two phase approach was employed to delineate these AOCs in a prudent and cost-effective manner. The first phase utilized modern field screening techniques to obtain quantitative CVOC spatial data. The second phase comprised monitoring well installation at key locations for plume monitoring. The focus areas in each of the two AOCs were highlighted in Figures 3 and 4 of the RI Work Plan.

Prior to each phase of well installation, a detailed proposal was submitted to SCDHEC providing the results of the field screening, planned methods, procedures, and locations. Wells were installed after SCDHEC approval and results were submitted to SCDHEC either separately or as part of a Semi-Annual Water Quality Monitoring Report. A summary of each investigation is provided below. The methodologies that were utilized, including well installation and development, were presented in detail in the RI Work Plan and are provided in this RI Report as **Appendix A**. Sampling procedures were provided in the approved 2017 SAP.

5.4.1 Former BP Area

Groundwater screening was conducted in the former Burn Pit area in October 2017 using direct-push technology in conjunction with the Color-Tec field analytical method (see **Appendix A**). Results were provided to SCDHEC in the letter prepared by HRP dated November 21, 2017. The objective was to determine the appropriate placement of permanent monitoring wells in the next phase of work.

A total of 24 locations were sampled as shown on **Figure 5**. **Table 2** lists the depth of each Geoprobe boring/temporary well. The Color-Tec method was used to screen for TCE concentrations using colorimetric gas tubes which can be correlated to concentrations obtained from laboratory analysis. Tube readings and converted total CVOC concentrations for each Color-Tec detection are included in **Table 2**.

Confirmation samples were collected at five key locations and delivered under chain-of-custody to Pace Analytical for VOC analysis using EPA Method 8260. **Table 3** provides a summary of the analytical results. Each of the confirmation samples was collected at borings where the Color-Tec results indicated no VOCs present. The laboratory results were generally consistent with the Color-Tec screening, confirming that the edge of the plume had been determined.

TCE and 1,1-DCE plume maps prepared using Color-Tec screening results indicated that the west side of the plume had not changed significantly from what has been shown in previous reports. However, the east side of the plume, and the leading down-gradient edge of the plume, extended further than shown on previous maps. Although the new data depicted a wider and longer plume,

the concentrations of TCE and 1,1-DCE in the expanded areas were not greatly elevated but were only slightly greater than MCLs. Also, the plume did not extend beyond the creek to the northwest.

Based on the screening results, and in order to fill the data gaps that existed, five new monitoring wells were proposed as follows:

- a shallow/water table well to confirm the west edge of the plume near the source area (OW-33S);
- a well pair, one as a shallow/water table well and the other as a deep/bedrock well to confirm the down-gradient east edge of the plume (OW-34S and OW-35D);
- a shallow/water table well to confirm the east edge of the plume further down-gradient (OW-36S); and
- a deep/bedrock well to confirm that the plume does not extend beyond the creek (OW-37D).

After receiving SCDHEC approval, HRP installed the five new groundwater monitoring wells in December 2017. Details were provided to SCDHEC in the letter prepared by HRP dated February 1, 2018. The first samples from the new wells were collected on January 11, 2018. There were no MCLs exceeded in the samples collected from OW-33S, OW-34S, and OW-37D. The MCLs for 1,1-DCE and TCE were exceeded in the samples from OW-35D and OW-36S. In addition, the MCL for PCE was exceeded in the sample from OW-35D. Based on the data from the new monitoring wells, the distribution of TCE in groundwater in the former BP area was revised and was generally consistent with the screening results.

In their letter dated February 28, 2019, SCDHEC requested a work plan for further assessment and for several wells in the former BP area that had been dry for several sampling events to be replaced. However, as the water table rebounded due to rainy conditions, the wells were able to be sampled and the results were all non-detect. The request for the work plan was cancelled in the SCDHEC letter dated May 30, 2018.

Further delineation of the plume in the former BP area east of extraction well EW-32S and monitoring well OW-26S was requested by SCDHEC in their letter dated August 12 2019. HRP prepared and submitted a work plan dated November 1, 2019 to conduct a passive soil gas (PSG) survey in this area. The work plan was approved by SCDHEC on November 5, 2019.

The PSG survey was completed in the vicinity of the former Burn Pit in December 2019 to determine the limits of the subsurface soil that continue to provide a source of VOCs for groundwater contamination. The survey was also extended to the northeast to delineate the edge of the VOC plume in that area.

PSG surveys utilize adsorbent samplers that are emplaced subsurface to adsorb VOCs in soil gas without forcing the flow rate of gas, thus yielding a more representative sample than active soil gas methods. A total of 48 PSG samplers were installed in the uniform grid pattern shown on **Figure 6**. As shown, a 25-foot spacing was used in the reported area of the former Burn Pit. A 50-foot spacing was used in the area of the anticipated plume edge, except at the north and south edges of the grid where a 100-foot spacing was used.

The PSG installation field work was conducted on December 19 and 20, 2020. Borings approximately 1" in diameter were drilled a depth of three feet using a hand-operated hammer drill. Samplers were installed in the hole which was then patched with an aluminum foil plug. The samplers were retrieved on January 6, 2020 after being left in place to be exposed to subsurface gas for the minimum 14 days. Soil gas samples were analyzed by Beacon using gas chromatography/mass spectrometry (GC/MS) instrumentation, following modified EPA Method 8260C procedures and in accordance with the reporting requirements of ISO 17025. The list of analytical parameters comprised following 16 VOCs:

1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane
1,1,2-Trichlorotrifluoroethane)	1,1-Dichloroethane
1,1-Dichloroethene	1,2-Dichloroethane
Carbon Tetrachloride	Chlorobenzene
Chloroform	cis-1,2-Dichloroethene
Tetrachloroethene	trans-1,2-Dichloroethene
Trichloroethene	Vinyl Chloride

The results of the PSG survey were submitted to SCDHEC in the HRP report dated March 11, 2020. **Table 4** presents a summary of the results including only those samples and compounds that were detected. There were no detections in the trip blanks and the results of the duplicate analyses were completely accurate; therefore the data was useable with no qualifications.

Three figures prepared by Beacon (**Appendix B**) show the soil gas concentrations of PCE, TCE, and 1,1-DCE at each of the survey sample locations. The data suggest the following:

- The former Burn Pit is not located in the area that has been historically reported. Sample locations no. 20 and no. 40 contained the highest concentrations of PCE and TCE, indicating the former Burn Pit appears to be located further north.

- The samples from the northeast portion of the grid did not contain detectable concentrations of VOCs, suggesting that the groundwater in this area does not contain sufficient levels of VOCs to create a soil gas imprint. This is consistent with plume maps that have been prepared by HRP that show the plume edge between soil gas sample locations nos. 35 and 36, nos. 44 and 45, and nos. 46 and 47.

5.4.2 CDS Area

HRP completed the preliminary/screening phase of the groundwater investigation in the former CDS area in November 2018. Groundwater screening was conducted using direct-push technology in conjunction with the Color-Tec field analytical method. A total of 6 locations were sampled as shown on **Figure 7**. **Table 5** lists the depth of each Geoprobe boring/temporary well.

The Color-Tec method was used to screen for 1,1-DCE concentrations using colorimetric gas tubes, which can be correlated to concentrations obtained from laboratory analysis. Tube readings and converted total CVOC concentrations for each Color-Tec detection are included in **Table 5**.

Confirmation samples were collected at four key locations/intervals and delivered under chain-of-custody to Pace Analytical for VOC analysis using EPA Method 8260. **Table 6** provides a summary of the analytical results. Each of the confirmation samples was collected at borings where the Color-Tec results indicated no VOCs present. The laboratory results were generally consistent with the Color-Tec screening. Details were provided in the Semi-Annual Water Quality Monitoring Report dated January 25, 2019.

1,1-DCE plume maps were prepared using a combination of Color-Tec screening results, confirmation sample results, and results of the recent routine groundwater sampling event in the former Construction Debris Site area. Based on these maps, and in order to fill the data gaps that exist, two new monitoring wells were proposed, as follows:

- a shallow/water table well to confirm the up-gradient edge of the plume (OW-38S); and
- a shallow/water table well to confirm the south edge of the plume side-gradient of the source area (OW-39S).

As part of the supplemental investigation in the CDS area, two additional surface water samples were collected from North Creek (located north of the CDS) in March 2019. Samples "CDS Up" and "CDS Down", located as shown on **Figure 7**, did not contain detectable concentrations of VOCs. These surface water locations have been incorporated into the semi-annual sampling program.

After receiving approval and well permits from SCDHEC, two new monitoring wells were installed in March 2019. The two wells, OW-38 and OW-39, are located to the west and southwest, respectively, of the former CDS AOC. The initial samples from the new monitoring wells were collected on March 29, 2019. Details of the well installation and sampling were included in the Semi-Annual Water Quality Monitoring Report dated July 12, 2019.

The sample from OW-38 contained detections of carbon tetrachloride above laboratory detection limits and estimated concentrations (below the laboratory reporting limit) of chloroform, 1,1-DCA, and 1,1-DCE. The sample from OW-39 contained detections of 1,1-DCE and TCE above laboratory detection limits. VOC detections in both wells were below respective compound MCLs.

The two new wells installed at the CDS successfully delineated the limits of the groundwater plume in their respective areas (to the west and to the south). The July 2019 Semi-Annual Report concluded that no further investigation is necessary for the CDS area.

5.4.3 Former Waste Pond Area

As part of assessment activities in 1985, five permanent groundwater monitoring wells were installed in the vicinity of the former Waste Pond area. These wells were historically not incorporated in the routine monitoring network. These "inactive" wells located in the vicinity of the former WP area are shown on **Figure 2** and include:

Well ID	Location
OW-7S	Immediately southeast and inferred down-gradient of the former WP area
OW-22S	Immediately south and inferred down-gradient of the former WP area

OW-23S	Approximately 190 feet southeast and inferred down-gradient of the former WP area
OW-23D	Approximately 200 feet southeast and inferred down-gradient of the former WP area
OW-8S	Approximately 200 feet east-northeast and inferred cross-gradient of the former WP area

As part of the RI, these five wells were thoroughly re-developed and sampled during the supplemental assessment of the former Waste Pond area. Well development methods are provided in **Appendix A**. Groundwater samples were collected in April 2017, no less than 48-hours following development. Samples were submitted to a certified laboratory for the analysis of CVOCs via EPA Method 8260.

Data resulting from the supplemental assessment at the former Waste Pond area was presented in the Semi-Annual Water Quality Monitoring Report dated July 18, 2107. In summary, there were three VOCs reported above laboratory detection limits in the April 2017 groundwater samples collected in the former Waste Pond area, including 1,1-DCA, 1,1-DCE, and cis-1,2-DCE. The only VOC reported at a concentration greater than the MCL was 1,1-DCE in one well (OW-23D at 9.5 ug/L, slightly greater than the MCL of 7 ug/L). No VOCs were detected in the sample collected from OW-22S. Observation wells OW-7S and OW-8S each had only one VOC at an estimated concentration.

The five monitoring wells in the former Waste Pond area were sampled again in September 2017. As stated in the Semi-Annual Water Quality Monitoring Report dated December 11, 2017, the analytical results for these five wells were similar to the April 2017 results; however, no MCLs were exceeded. Based on the two rounds of sampling in 2017, the five wells located in the vicinity of the former Waste Pond area were not added to the routine semi-annual program and HRP concluded that this area is no longer an AOC. Laboratory analytical reports for the five former Waste Pond area wells are included in **Appendix A-1**.

5.5 Packer Tests and Vertical Profiling

In their letter dated August 12 2019, SCDHEC also requested packer testing and sampling in existing bedrock wells to determine where the chemicals of concerns are at their highest concentrations. The work plan dated November 1, 2019 included a proposal to conduct packer testing at five wells using test intervals of 10 feet. As stated above, this work plan was approved by SCDHEC on November 5, 2019.

The packer testing was conducted in December 2019 in accordance with the procedures presented in **Appendix A**. During four days of field work, 5 packer tests were attempted at 2 wells without success due to communication between the isolated intervals and the boring above/below the inflated packers. It was concluded that the issue could be attributed to poor quality bedrock in the borehole where the packers were set. During testing at one of the wells, the packer assembly was inflated within the cased section of the well to ensure the assembly was working properly. During this equipment test the packers achieved a solid seal, high pressures within the packed off interval, and no water level rise was observed.

As stated in the packer test plan, it was anticipated that deteriorated borehole conditions were a possibility due to the age of the wells. The monitoring wells chosen for testing are believed to have been installed in 1983 and 1984. After a near miss safety incident related to the poor condition of the rock borehole, packer testing was terminated. A detailed summary of packer testing procedures and results was provided in the HRP report submitted to SCDHEC on March 11, 2020

As an alternative to packer testing, HRP proposed the use of PDBs to provide vertical delineation of VOC concentrations in wells with open bedrock boreholes. Prior to the March 2020 semi-annual sampling event, HRP deployed PDBs in the five wells that were slated for packer testing. Depth intervals coincided with the intervals that were planned for packer testing. A total of 17 PDBs were deployed on March 13 and retrieved on March 27, 2020 in conjunction with the spring 2020 semi-annual sampling event. The depth of each of the PDBs is included in **Table 7.** Details of the PDB vertical profile sampling results were provided to SCDHEC in HRP's letter dated May 11, 2020, including laboratory analytical reports.

The analytical results of the PDB vertical profile samples are summarized in **Table 7**. **Figure 2** shows the locations of the bedrock wells that were sampled using PDBs. The results indicate that there is very little to no vertical variation in the total VOC concentration with depth. Each set of PDB results is discussed by well below:

- OW-1: Excluding acetone as a lab artifact, total VOCs ranged from 22.3 to 51.9 ug/L in the five PDB samples collected at OW-1 (**Table 7**). Historically, total VOCs in single samples collected at OW-1 have ranged from ND to 67 ug/L over the last five years of routine monitoring (historical VOC concentrations for the bedrock wells discussed herein are included as **Appendix C**). It is notable that TCE was only present in the two shallow PDB samples, and at concentrations less than the MCL. The only VOCs that exceeded MCLs were 1,1-DCE and vinyl chloride, both break-down products of TCE.

  Based on the lack of vertical variation, combined with the low VOC concentrations and the presence of degradation products, HRP concluded that no further evaluation is needed at OW-1.

- OW-10D: Total VOCs ranged from 12.7 to 13.0 ug/L in the three PDB samples at OW-10D. Historically, OW-10D has only been sampled as part of routine monitoring three times in recent years; total VOCs in single samples collected at OW-10D have ranged from 10.5 to 12.5 ug/L (excluding acetone). The only MCL that was exceeded was for TCE, by less than 1 ug/L.

  Based on the lack of vertical variation, combined with the very low VOC concentrations, HRP concluded that no further evaluation is needed at OW-10D.

- OW-16: Total VOC concentrations were 238.0 and 292.4 ug/L in the two PDB samples at OW-16. Historically, total VOCs in single samples collected at OW-16 have ranged from 223 to 290 ug/L over the last five years of routine monitoring (excluding acetone). The MCLs for 1,1-DCE and TCE were exceeded in both PDB samples, consistent with historic results.

Based on the lack of vertical variation, and the fact that this well is located directly down-gradient of the CDS source area, HRP concluded that no further evaluation is needed at OW-10D.

- OW-17: Total VOCs ranged from 54.8 to 62.3 ug/L in the four PDB samples collected at OW-17. Historically, total VOCs in single samples collected at OW-17 have ranged from 42 to 62 ug/L during the last five years of routine monitoring (excluding acetone). The MCLs for 1,1-DCE, carbon tetrachloride, and TCE were slightly exceeded in each PDB sample, consistent with historic results.

  Based on the lack of vertical variation, the relatively minor MCL exceedances, and the fact that this well is also located directly down-gradient of the CDS source area, HRP concluded that no further evaluation is needed at OW-17.

- OW-28D: Total VOCs ranged from 447.1 to 547.4 ug/L in the three PDB samples collected at OW-28D and, as shown on **Table 7**, there was neither a decreasing nor an increasing trend with depth. Historically, total VOCs in single samples collected at OW-28D have ranged from 35 to 419 ug/L over the last five years of routine monitoring (excluding acetone). The MCLs for 1,1-DCE, TCE, and PCE were exceeded in each PDB sample, consistent with historic results.

  Although these samples indicate some vertical variation, the MCL exceedances in each sample are similar. This well is located at the down-gradient edge of the VOC plume emanating from the former Burn Pit area, just shy of North Creek. Based on this data, and based on the lack of VOCs in surface water samples collected from North Creek, as well as in groundwater samples collected from OW-37D (located on the north side of North Creek), HRP concluded that no further evaluation is needed at OW-28D.

In summary, the vertical PDB sampling did not indicate any zones within fractured rock that contain anomalously high concentrations of VOCs. This may be due to widespread deteriorated bedrock conditions throughout the open borehole or to vertical mixing within the borehole, or some combination of both. In any event, there is no evidence of a bedrock groundwater "hot spot" worthy of additional assessment.

5.6 Hydrogeologic Results

Site-wide depth-to-water measurements were collected on March 9, 2020. The elevations above mean sea level for groundwater at each measuring point are summarized in **Table 8**. A database of historical water levels, beginning in April 2017, is provided as **Appendix D**.

Groundwater flow directions at the former Burn Pit area and CDS were estimated using groundwater elevation data collected during the March 2020 sampling event. These elevations were used to create groundwater elevation contours. Flow direction is interpreted to be generally perpendicular to elevation contours.

Horizontal groundwater gradients were calculated by comparing groundwater elevations recorded at monitoring well pairs oriented parallel to groundwater flow direction. Well pairs were selected in

order to evaluate the gradient outside the influence of pumping wells. The hydraulic gradient of a particular transect was calculated using the equation:

$$\mathbf{i} = \Delta h/\Delta L,$$

where **i** is the hydraulic gradient, **Δh** is the change in head measured along the direction of groundwater flow, and **ΔL** is the distance between the measurement locations.

Calculated horizontal gradients and hydraulic conductivity (K) values were used to estimate average linear groundwater flow velocities. Hydraulic conductivity was determined by Golder Associates, a prior consultant for the Site, based on an aquifer test conducted during a 1998 investigation. Average linear groundwater flow velocities were calculated using the following standard equation:

$$\mathbf{V} = Ki/n_e,$$

where **V** is the average linear velocity (feet per day, ft/day), **K** is hydraulic conductivity (ft/day), **i** equals horizontal hydraulic gradient, and $\mathbf{n_e}$ is effective porosity.

5.6.1 Construction Debris Site

Figures 8 and **9** show interpreted potentiometric contours for the March 2020 monitoring event at the CDS for the shallow and deep aquifers, respectively. The potentiometric maps indicate that groundwater flows east/northeast towards South Creek across the CDS in both the shallow and deep aquifers. East of South Creek, in the deep aquifer, groundwater flows north/northwest towards North Creek. Localized drawdown occurs in the vicinity of the extraction wells, particularly around EW-2A, EW-1C, and EW-3B. These flow patterns are generally consistent with previous sampling events.

Within the shallow aquifer, the calculated horizontal hydraulic gradient in the area of the CDS is estimated to be 0.05 ft/ft based on the difference in groundwater elevation divided by the distance between the 480- and 470-foot contours on the south side of the CDS in March 2020 (**Figure 8**). In the same area, the gradient within the deep aquifer is 0.03 ft/ft.

A horizontal groundwater flow rate was calculated for the former CDS area using the horizontal hydraulic gradient presented above and aquifer properties including hydraulic conductivity and porosity. The hydraulic conductivity was calculated from the estimated transmissivity of bedrock (1,400 gpd/ft or 187 feet squared per day, ft^2/d, as reported in historical reports) and average total screened aquifer thickness (50 ft) to be on the order of 3.74 feet per day (ft/d). The effective porosity is assumed to be around 20% based on Site lithologic characteristics.

The average linear velocity of groundwater flow at the CDS outside of the influence of pumping is estimated to be 0.75 ft/d (274 ft/yr) based on the March 2020 data.

5.6.2 Former Burn Pit Area

Figures 10 and **11** show interpreted potentiometric contours for the March 2020 monitoring event at the former BP area for the shallow and deep aquifers, respectively. The potentiometric

map indicates that groundwater flows north to northwest towards North Creek within both intervals, with localized drawdown around extraction wells EW-4D and EW-32S.

The horizontal hydraulic gradient across the former BP area is approximately 0.03 feet per foot (ft/ft) based on the difference in groundwater elevation divided by the distance between the 510- and 500-foot contours shown on **Figure 10**. In the same area, the gradient within the deep aquifer is 0.04 ft/ft.

The average linear velocity of groundwater flow at the former BP area is estimated to be 0.65 ft/d (237 ft/yr) based on an average hydraulic conductivity of 3.74 ft/d (as reported in reports prepared by prior consultants), average hydraulic gradient of 0.035 ft/ft, and assumed effective porosity of 20%.

6.0 NATURE AND EXTENT OF CONTAMINATION

This section describes the nature and extent of contamination at the site based on historical investigations, investigations that were completed as part of the VC, and on the most recent semi-annual sampling event.

6.1 Source Areas and Soil Contamination

There are two ongoing source areas comprised of contaminated subsurface soil. The CDS was capped in 1985, but remains a source of VOCs to groundwater. The groundwater extraction system has demonstrated over the years that it successfully prevents contaminated groundwater from discharging to the adjacent surface water body.

The former Burn Pit area has long been the presumed source of groundwater contamination in that area of the Site. Previous reports had indicated a generalized location of the former Burn Pit area; however, the specific location of the former Burn Pit area was identified during the VCC investigation. The detailed limits of the contaminated soil will be addressed as part of a Pre-Design Investigation after the Focused Feasibility Study is complete.

6.2 March 2020 Groundwater and Surface Water Sample Results

Laboratory results from the March 2020 monitoring event are summarized in **Table 9**. Only compounds that were detected in at least one sample are included in the summary table. Laboratory reports are included in **Appendix F**.

Water quality field parameters pH, temperature, and conductivity were measured during sample collection using portable field instruments as described in the approved 2017 SAP. Data were recorded on field forms, provided as **Appendix E**. Water quality data was collected in accordance with the EPA Region 4 Science and Ecosystem Support Division's (SESD) operating procedures. HRP personnel collected, preserved, and shipped the samples in accordance with the SAP.

Each of the groundwater and surface water samples submitted to the laboratory were received in good condition and were prepared and analyzed according to appropriate procedures. A trip blank was included in each sampling cooler to assess potential contamination of field samples during shipping to the laboratory. One field blank was collected during the March 2020 monitoring event. Both trip blank and field blank results were non-detect.

One field duplicate sample was collected from surface water sample North Creek Downstream (DUP-1) during the March 2020 monitoring event for the analysis of VOCs. The results of the field duplicate analysis are compared to the results of the field sample analysis to determine sample homogeneity and sampling precision. The field duplicate sample collected met the above QC acceptance criteria.

6.2.1 Construction Debris Site

A summary of VOCs detected above laboratory method detection limits during the March 2020 sampling event is provided as **Table 9.** Total VOCs measured in each sample as well as applicable EPA MCLs are also included in **Table 9**. Tabulated historical data and graphs showing total VOC concentrations over time for wells located in the area of the CDS are included in **Appendix C**.

Twelve VOCs were detected above laboratory reporting limits in groundwater samples collected from eleven wells sampled during March 2020. Of these VOCs, the following were present at concentrations in excess of their respective EPA MCL:

Carbon Tetrachloride: OW-17;
1,2-DCA: OW-13D;
1,1-DCE: OW-1, OW-2D, OW-13D, OW-13S, OW-16, OW-17, EW-1C, EW-2A, EW-3B; and
TCE: OW-2D, OW-13D, OW-13S, OW-16, OW-17, EW-1C, EW-2A, EW-3B.

1,1,2-TCA and vinyl chloride were also reported above their respective EPA MCL, but at estimated concentrations below the laboratory reporting limit (i.e., a "J" value).

During the March 2020 monitoring event, 1,1-DCE was detected above laboratory reporting limits in seven of the eight sampled groundwater monitoring wells, all extraction wells sampled, and one of the five surface water samples. As such, the groundwater contaminant plume in the CDS area is best illustrated by the distribution of 1,1-DCE as presented in **Figure 12** (shallow aquifer) and **Figure 13** (deep aquifer). Concentrations of 1,1-DCE are also included in the geologic cross-section A-A' (**Figure 3**). The March 2020 extent of TCE, PCE, 1,2 DCA, vinyl chloride, and 1,4-dioxane in groundwater in the CDS area is illustrated in **Figures 14** through **23**.

As shown on **Table 9**, total VOC concentrations in groundwater ranged from 0.8 µg/L in OW-39 to 2,842.6 µg/L in OW-13D. Total VOC concentrations have historically been the highest at the extraction wells and observation well OW-13D. The three extraction wells are located east to northeast of OW-13D towards South Creek. Groundwater from OW-13D flows toward these extraction wells where it is subsequently captured. In general, total VOCs at the extraction wells have generally decreased with time since approximately 1999.

Most of the total VOC graphs (**Appendix C**) indicate that concentrations at the CDS have generally remained stable or decreased over time since 1999. There were higher concentrations of total VOCs reported during the 2008/2009 and 2013/2014 sampling events at a majority of the wells sampled, likely due to extraction well maintenance issues and the addition of 1,4-Dioxane to the total VOC concentration calculation in March 2013. However, total VOC graphs indicate that concentrations have been stable or decreasing in the CDS area wells since March 2014.

At EW-1C, total VOCs decreased from 855.6 µg/L in September 2019 to 785.3 µg/L in March 2020. These concentrations are significantly less than concentrations reported from September 2017 through March 2019 at EW-1C and generally less than the last few concentrations at EW-1B, which was abandoned and replaced by EW-1C in 2017. The general decrease is attributed to the change in design of the extraction well (EW-1C was installed in saprolite with the screen extending to the top of bedrock whereas EW-1B was installed in an open borehole deep in bedrock). This change has resulted in a more effective well, removing greater mass per gallon extracted, which resulted

in higher initial concentrations (September 2017 through March 2019) followed by significant decrease in concentrations (September 2019 and March 2020).

Total VOCs slightly decreased at EW-2A from 965 µg/L in September 2019 to 791 µg/L in March 2020. After a strong decreasing trend from 1999 to 2010, concentrations have remained relatively consistent, ranging from 484 µg/L to 965 µg/L through 2020.

At EW-3B, which was installed in April 2018 to replace EW-3A, total VOCs increased from 376 µg/L in September 2019 to 793 µg/L in March 2020. Similar to EW-1B/1C, the replacement well was installed to a shallower depth, resulting in higher VOC concentrations and a more effective extraction well, albeit on a lesser scale.

Regarding the surface water samples collected in March 2020 at the CDS, the downstream sample from the South Creek contained 1,1-DCA, 1,1-DCE and 1,4-dioxane at concentrations below the MCL. TCE was detected at concentrations below the MCL in both CDS North Creek samples. No VOCs were present above laboratory detection limits in either the upstream sample collected from the South Creek or the Duck Pond sample.

The surface water data indicates that the groundwater extraction system effectively captures the groundwater and removes VOCs from the CDS area. Groundwater flowing toward South Creek is intercepted by extraction wells EW-1C, EW-2A, and EW-3B, pumping at an average total of approximately 1.3 gallons per minute (gpm) from November 2019 through April 2020 (groundwater extraction and mass removal are discussed in more detail in Section 5).

6.2.2 Former Burn Pit Area

Thirteen VOCs were present above laboratory reporting limits in multiple groundwater samples collected in the former BP area during March 2020. Of these VOCs, the following were present at concentrations in excess of their respective EPA MCL:

1,1-DCE: OW-5S, OW-25S, OW-27D, OW-28D, OW-36S, EW-4D, EW-32S, PZ-4S, PZ-31S;
Tetrachloroethene (PCE): OW-5S, OW-25S, OW-26S, OW-27D, OW-28D, EW-4D, EW-32S;
TCE: OW-5S, OW-10D, OW-25S, OW-26S, OW-27D, OW-28D, OW-36S, EW-4D, EW-32S, PZ-4S; and
Vinyl chloride: OW-35D.

A summary of VOCs detected above laboratory method detection limits is provided as **Table 9**.

During March 2020, total VOC concentrations in groundwater ranged from 3.5 µg/L in OW-34S to 4,720 µg/L in EW-32S. Total VOC concentrations have historically been the highest at the extraction well EW-32S. EW-32S is located in a down-gradient location relative to the suspected source area. Groundwater from the source area flows toward the extraction well where it is subsequently captured. In general, total VOCs at the extraction well EW-32S have decreased with time since approximately 1999. The highest VOC concentration within the former BP area during the March 2020 sampling event was TCE at 2,500 µg/L in the sample collected from extraction well EW-32S. The groundwater contaminant plume in the former BP area can best be depicted by the distribution of TCE as presented in **Figures 24** and **25**. Concentrations of TCE are also included in geologic cross-section B-B' (**Figure 4**). The March 2020 extent of 1,1-DCE, PCE, 1,2 DCA, vinyl

chloride, and 1,4-dioxane in groundwater in the former BP area is presented in **Figures 26** through **35**.

Historical VOC data for the former BP wells are included in **Appendix C**, along with graphs showing total VOC concentrations over time at each sample location. The total VOC graphs, including the extraction well graphs, indicate that VOC concentrations at the former BP area have generally remained stable or decreased over time since 1999. The elevated concentrations of VOCs reported in samples from extraction wells EW-4D and EW-32S compared to other wells is an indication that impacted groundwater is being drawn toward these wells in both the soil/saprolite and bedrock aquifers due to pumping.

The surface water sample collected at the North Creek upstream location contained 1,1-DCE below the EPA MCL (0.51 µg/L), and the surface water sample collected at the North Creek downstream location contained 1,1-DCE at an estimated concentration below EPA MCL. The surface water sample collected at the North Creek downstream location also contained TCE at an estimated concentration (**Table 9**). The surface water data indicates that the groundwater extraction system is effectively removing VOCs from the former BP area; specifically, groundwater from PZ-31 is flowing toward extraction well EW-4D, pumping at an average of approximately 19.7 gpm from November 2019 through April 2020 (see Section 7).

7.0 REMEDIATION SYSTEM OPERATIONS AND EFFECTIVENESS

7.1 System Operation

To provide hydraulic containment of impacted groundwater at the Site, Ascend operates five groundwater extraction wells including EW-4D and EW-32S in the former BP area and EW-1C, EW-2A, and EW-3B in the CDS area.

During the course of the VCC RI investigations, 2 extraction wells were replaced by HRP. As part of annual maintenance at EW-1B and EW-3A in 2017, the submersible pumps could not be removed for routine cleaning and became trapped.

EW-1C was installed in September 2017 to replace EW-1B, which was abandoned following EW-1C's completion. EW-1C was installed to a depth of 40 feet bgs, with a screened interval that spanned the top of rock from 25 feet bgs to 40 feet bgs. This configuration was a change (with DHEC approval) from what had been in effect at EW-1B where the pump had been located at a depth of approximately 100 feet in an open bedrock borehole. Operation of EW-1C began in October 2017 and analytical results indicated improved mass removal.

Pumping at EW-3A resumed in July 2017 with the pump at 70 feet; however, the pump became inoperable in December 2017 and a new extraction well was installed to replace it. With SCDHEC approval, EW-3B was installed in April 2018 to a depth of 52 feet bgs, with a screened interval from 27 feet bgs to 52 feet bgs. After pumping resumed at EW-3B in April 2018, with a shallower screen interval spanning the top of rock, mass removal rates increased similar to EW-1C.

Recovery wells were operated throughout the year except during brief periods of maintenance. **Table 10** shows the calculated monthly volume of groundwater pumped from each extraction well from November 2019 through April 2020 based on routine flow meter readings. While EW-2A was operating, the totalizer was not; therefore, flow data is not available for this well.

Approximately 5.2 million gallons were pumped from the former Burn Pit area extraction wells at average flow rates of 19 gpm (EW-32S) and 0.5 gpm (EW-4D). Approximately 903,000 gallons were pumped from CDS area extraction wells EW-1C and EW-3B, at average flow rates of from 0.5 gpm and 2.9 gpm, respectively. EW-2A typically pumps at a rate of between 1 gpm and 2 gpm. Assuming an average flow of 1.5 gpm at EW-2A, the combined flow reading data indicate that approximately 6.5 million gallons of groundwater were removed via the extraction wells from May 2019 through October 2019.

7.2 Effectiveness Evaluation

March 2020 potentiometric maps of the CDS (**Figures 8** and **9**) and the former BP area (**Figures 10** and **11**) show that localized drawdowns occur around extraction wells and that the groundwater extraction system provides hydraulic capture at these locations. At the former BP area, EW-32S and EW-4D limit the northwest migration of impacted groundwater in the soil/saprolite and bedrock units, respectively, towards North Creek. At the CDS area, EW-1C, EW-2A, and EW-3B limit the migration of impacted groundwater in the southeastern portion of the CDS area west of South Creek.

Groundwater monitoring results show that VOC concentrations in most observation wells at the former BP and CDS areas remained relatively stable or decreased in recent years. There were higher concentrations of total VOCs detected in the 2008/2009 and 2013/2014 sampling events in the CDS area, in part due to extraction well maintenance issues and the addition of 1,4-Dioxane in March 2013 to the total VOC concentration. However, total VOC trend graphs generally indicate that concentrations have been stable or decreasing since March 2014. This indicates that the remediation system is reducing or stabilizing VOC concentrations in groundwater at the Site.

The effectiveness of the extraction system is further demonstrated by the historically non-detect to low-level detections measured in surface water samples. Downstream North Creek sample results do not show evidence of a significant upward trend in VOC concentrations, indicating that the extraction system is effectively removing VOCs from the former BP area. The March 2020 downstream South Creek sample contained 1,1-DCE and 1,1-DCA at concentrations less than the MCL.

The mass of VOCs removed during the current monitoring period via the groundwater extraction system was estimated based on the following relationship:

Removed Mass (lb) **= Treated Volume** (gal) x **3.786** (L/gal) x **Concentration** (µg/L) x **2.2 E-9** (lb/µg)

where lb = pounds, gal = gallons, L = liters, and µg = micrograms.

Table 10 shows the VOC concentrations at each extraction well based on the March 2020 sample results, the approximate volume removed (i.e., treated) from each extraction well through April 2020, and the estimated VOC mass removal rates.

The calculated mass removal rates indicate that the Site groundwater extraction system removed approximately 17 lbs of VOCs from the BP area and approximately 6.2 lbs of VOCs from the CDS area from November 2019 through April 2020. An estimated total of 23.6 lbs of VOCs were removed from site groundwater from November 2019 through April 2020.

8.0 RISK ASSESSMENT

This section presents the characterization of risk from the exposure, or potential exposure, to Site related contaminants and consists of an assessment of:

- chemicals of concern
- potential exposure pathways
- risk characterization

8.1 Conceptual Site Model

The Conceptual Site Model (CSM) that follows is a written representation of the physical, chemical and biological processes that control the transport, migration and actual/potential impacts of contamination (in soil, air, ground water, surface water and/or sediments) to human and/or ecological receptors. The CSM was initially presented in the 2016 RI Work Plan and has been routinely revised to reflect the current understanding of the site as new data was obtained.

The groundwater extraction system continues to provide hydraulic containment and remediate VOCs in groundwater at the former BP and CDS areas. Analytical data for the former CDS and BP areas show that VOC concentrations at observation wells have generally decreased over time, and some of the highest total VOC concentrations are measured in the Site extraction wells. In addition to the active groundwater extraction systems located at the BP and CDS areas, natural attenuation processes provide a supplemental remediation mechanism. This is evident within down-gradient wells as total VOC concentrations have been stable or decreased over time, as well as the presence of degradation products.

The following section presents information pertaining to sources of contamination, exposure pathways, and potential receptors based on the current CSM.

8.1.1 Source Areas, Contaminants, and Affected Media

RI activities focused on the three AOCs identified in the 2016 VCC - the former BP area, the CDS, and the former Waste Pond area. Based on data obtained during this RI, the former Waste Pond area is no longer an AOC. Chlorinated solvents and their associated breakdown compounds are the contaminants of concern site-wide, regardless of the AOC.

Groundwater quality has been impacted in the two remaining AOCs based on historical data:

CDS – total VOCs to a maximum concentration of 2,843 µg/L (March 2020); and
Former BP – total VOCs to a maximum concentration of 4,720 µg/L (March 2020).

The most recent groundwater sampling results are summarized in **Table 9**; historical summaries are provided in **Appendix C**.

Constituents of concern (COCs) impacted soil quality within the CDS and the former BP area as detailed elsewhere in this RI Report.

Surface water has been impacted to a much lesser extent, as described in Section 7 and summarized in **Table 9** and **Appendix C**.

Site COCs are summarized in **Table 11**. Risks are usually controlled by exposure to certain organic compounds which have been shown to exhibit carcinogenic effects. Primary COCs exhibiting carcinogenic effects include PCE and TCE (and their breakdown products) and to a secondary degree toluene, ethylbenzene and xylenes (non-carcinogenic effects). Semi-volatile organic compounds and inorganic constituents are not of concern

8.1.2 Contaminant Migration

As stated above, chlorinated solvent-related VOCs are the COCs at the Site. As a pure product, chlorinated solvents (e.g., TCE) are classified as dense non-aqueous phase liquids (DNAPLs). DNAPLs are generally hydrophobic and migrate along paths of least resistance. When released in sufficient quantities, DNAPLs move vertically, primarily due to gravity but also by infiltration, through the vadose zone and into the saturated zone. *There have been no direct observations of DNAPL at the Site*.

Potential DNAPL subsurface movement is also influenced by geologic variations, which are prevalent within the unconfined saprolitic aquifer of the Site. Fine-grained heterogeneities within the saprolite may allow DNAPL to preferentially absorb into small pore spaces, adsorb onto fine grained particles, and/or collect on top of a low-permeable unit and spread laterally (i.e., pooling).

Preferential flow paths may also exist within the underlying weathered metamorphic bedrock of the Site. DNAPL that migrates through the surficial saprolitic aquifer can infiltrate the fractures present within the transition zone between saprolite and competent bedrock (partially weathered rock). The CSM assumes that the horizontal migration of DNAPL, if present, is generally expected to be limited to within the relative proximity of the AOC; however, the vertical component is dependent on the underlying geology. Horizontal migration of DNAPL may also occur at depth given the vertical encounter of low-permeable zones such as bedrock fractures.

The dissolved phase (i.e., aqueous groundwater contamination) associated with a chlorinated solvent release will preferentially flow in conjunction with the hydrogeological mechanisms of the Site. Horizontal and vertical migration of contaminants can vary significantly across the Site depending on the underlying geology of each AOC and the potential presence of residual DNAPL. Groundwater flow within the surficial aquifer at the Site generally follows localized topographic contours based on historical monitoring data. Shallow groundwater in the former BP area typically flows north to northwest towards North Creek, while flow in the CDS area is inferred to be somewhat radial (spanning northwest to southeast) due to the convergence of North and South Creeks.

8.2 Exposure Pathways

The identification and evaluation of contaminant exposure pathways to humans is warranted due to the documented impact to groundwater quality within the former BP area and the CDS. Exposure pathways are the means by which constituents move through the environment from a source to a point of contact. A completed exposure pathway has four criteria: (1) a source of

contamination; (2) a mechanism of transport; (3) a point of contact, and (4) a route of entry into the body.

Potential routes of human exposure to any of the constituents of concern may include ingestion of impacted soil or water, dermal contact, inhalation of fugitive dust from soil, or inhalation of chemicals volatilizing from impacted soil or groundwater. Ingestion of contaminants adsorbed onto soils involves the direct intake of contaminated soil into the body. This pathway occurs primarily in children at play, through non-sanitary practices such as eating food without washing hands, and through swallowing of contaminated dust. Ingestion of contaminated water typically involves the drinking of groundwater obtained from private wells that have been impacted by dissolved contamination.

Inhalation of organics that volatilize from contaminated groundwater during showering can also represent a significant exposure pathway. Ingestion (and inhalation) of contaminated water is a primary pathway for light weight VOCs that are readily dissolved. Direct dermal contact involves adsorption of contaminants through the pores of the skin.

8.2.1 Soil Exposure

COCs are present in subsurface soil in the former BP area. Regarding the CDS, a three foot clay cap was installed across the AOC in 1985 to control infiltration and subsequent migration of contaminants. The soil exposure pathway to day-to-day Ascend manufacturing personnel is incomplete at these two AOCs based on the lack of activities involving subsurface soils.

8.2.2 Groundwater Exposure

Contaminated groundwater does not extend off site. The Site utilizes municipal potable water to support facility operations. The human exposure pathway to impacted groundwater due to ingestion is incomplete. The dermal contact exposure pathway to Ascend's routine manufacturing workers is incomplete. Ascend utilizes consultants to interact with the groundwater extraction system that are HAZWOPER trained, don appropriate personal protective equipment (PPE), and abide by a Site-specific Health and Safety Plan, which addresses the hazard specific to work tasks.

8.2.3 Surface Water Exposure

Historically, low level COC concentrations have been intermittently detected in surface water samples collected from the North and South Creeks, and the duck pond. Ingestion or dermal contact with impacted surface water by day-to-day Ascend manufacturing employees is unlikely. Note that both creeks and the tributary they form are contained within the Site boundaries, or the eastern adjacent property also owned by Ascend. The surface water exposure pathway is incomplete.

8.2.4 Indoor Air/Inhalation Exposure

Elevated levels of COCs in soil and/or groundwater may volatilize into subsurface soil gas and preferentially migrate. The accumulation of vapors beneath a structure may lead to indoor air quality concerns depending on the building construction. However, the location of the AOCs, and

their associated groundwater plumes, are along the peripheral of the manufacturing facility's footprint (**Figure 2**). Therefore, the indoor air exposure route is incomplete.

The potential inhalation exposure route is limited to select HRP personnel and its subcontractors who interact with the former BP area and CDS groundwater extraction systems. These employees are HAZWOPER trained, don appropriate PPE, and abide by a Site-specific Health and Safety Plan, which addresses the hazard specific to each work task. The inhalation exposure pathway for day-to-day Ascend manufacturing employees is incomplete.

8.3 Potentially Exposed Populations (Present/Future)

Ascend employees are the primary population (present and future) that have a potential exposure risk, albeit unlikely, to CVOCs. As indicated above, the exposure pathways are incomplete for the vast majority of personnel employed at Ascend as well as Ascend's on-site contractors.

Security is provided 24 hours a day to limit unauthorized access to the Site by non-employees. The facility has perimeter security fencing. Ascend maintains a strict site sign-in policy, mandates health and safety training upon arrival, and requires PPE for all visitors entering the property.

8.4 Receptor Survey

Potential receptors such as potable water supplies (e.g., springs, wells, and intakes) and sensitive environments (e.g., parks, estuaries, natural areas, endangered species, etc.) were identified as part of a receptor survey performed by HRP in 2017 and updated in July 2020. The receptor survey included the following tasks:

Identification of public/private water supply wells
Identification of nearby surface water bodies
Subsurface structure survey
Identification of adjacent land use and property owners

The above topics are summarized in **Table 12**.

Supply well data was compiled from three different sources: SCDNR/SCDHEC provided databases, telephone conversations with the Greenwood Commission of Public Works (CPW) personnel, and a windshield survey. HRP received verbal confirmation from Greenwood CPW that public water is available at the Site and the surrounding area. However, the use of public water is optional. HRP personnel did not identify any supply wells via two windshield surveys completed on April 13, 2017, but did observe municipal water meters and fire hydrants on properties within the Site vicinity indicative of public water supply. In summary, no water supply wells were identified within 1,000 feet of the Site (**Figure 36**).

In April of 2018, SCDHEC collected samples from three private water wells located east of the Site beyond the 1,000 feet radius. None of the samples contained detectable concentrations of VOCs. The locations of the three wells are included on **Figure 36**.

Nearby surface water bodies include: 1) two unnamed tributaries of Saluda Branch Creek are located on Site and flow to the northeast, and 2) Lake Greenwood is located approximately 3,000

feet east of the northeastern Site boundary. Subsurface utilities located on the Site and along Highway 246 include: natural gas, water supply, and sewer (**Appendix G**). Utilities are typically buried 3 to 5 feet underground. Land use in the area surrounding the Site is a mixture of industrial, commercial, agricultural, residential, and undeveloped. A list of adjacent properties is provided in **Appendix G**.

8.5 Risk Characterization

A summary of the Risk Characterization for the Ascend Site is presented in **Table 13**.

Inhalation of volatilized organics or VOCs adsorbed onto dust does not present a current significant risk at the Ascend Site. VOCs would not be expected to be present in near surface soils considering the CDS has been capped and the former BP area is a subsurface feature, covered with a mixture of vegetation, debris, trees and concrete. No significant dust is generated during routine plant activities. Inhalation of volatilized organic or VOCs adsorbed on to dust does represent a potential *future* risk to any persons involved in excavation of contaminated soils or sampling groundwater via monitoring wells. Individuals at greatest risk would be construction workers or site remediation personnel.

A current risk of ingestion of VOCs implies ready access to contaminated soils. Access to the site is restricted by perimeter fencing and full-time security, and the surface of the site AOCs is either capped or covered with a mixture of vegetation, debris, trees and concrete. There is likely little current risk associated with the ingestion pathway at the Site as exposure to contaminated soils is highly improbable.

Similarly, dermal contact with VOCs in soils implies ready access these materials. As previously stated, access to the site is restricted by perimeter fencing and full-time security and the surface of the site AOCs is covered with a mixture of vegetation, debris, trees and concrete. Even considering potential future risk involving excavation of contaminated soils, the dermal contact pathway is insignificant in comparison to inhalation or ingestion.

Although groundwater within the surficial aquifer at the Sites is contaminated with VOCs, there is likely no risk associated with groundwater ingestion (drinking) or inhalation (while showering). There are no supply wells on site used for drinking water or any other purpose that could complete an exposure pathway, other than the extraction wells. The surrounding area is served by the local municipal water supply system; and there are no known drinking water wells in operation. Since the area is supplied by the local municipal system, there is little likelihood that any wells would be installed in the future.

In summary, under existing conditions, there is little to no risk of exposure. The risk to future workers can be eliminated through proper soil management planning as needed should construction activity be considered in areas of contamination.

9.0 REFERENCES

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South Carolina Department of Health and Environmental Control. May 23, 2012. Letter Correspondence: Invitation to Participate in the South Carolina Voluntary Clean-up Program for: Ascend/Solutia Site, Greenwood County, Site #4830. John Cresswell (SCDHEC) to Lori Napper (Ascend).

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South Carolina Department of Health and Environmental Control. February 23, 2015. Letter Correspondence: Ascend/Former Solutia Facility Historical Summary Report Dated December 18, 2014, Greenwood County. Addie Walker (SCDHEC) to Lori Napper (Ascend).

Golder Associates, Inc. February 2016. Annual Remediation System Effectiveness Report – 2015. Ascend Facility, Greenwood, South Carolina. Prepared for Ascend Performance Materials Operations, LLC.

9.2 Additional References

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9.3 Regulatory Standard Operating Procedures

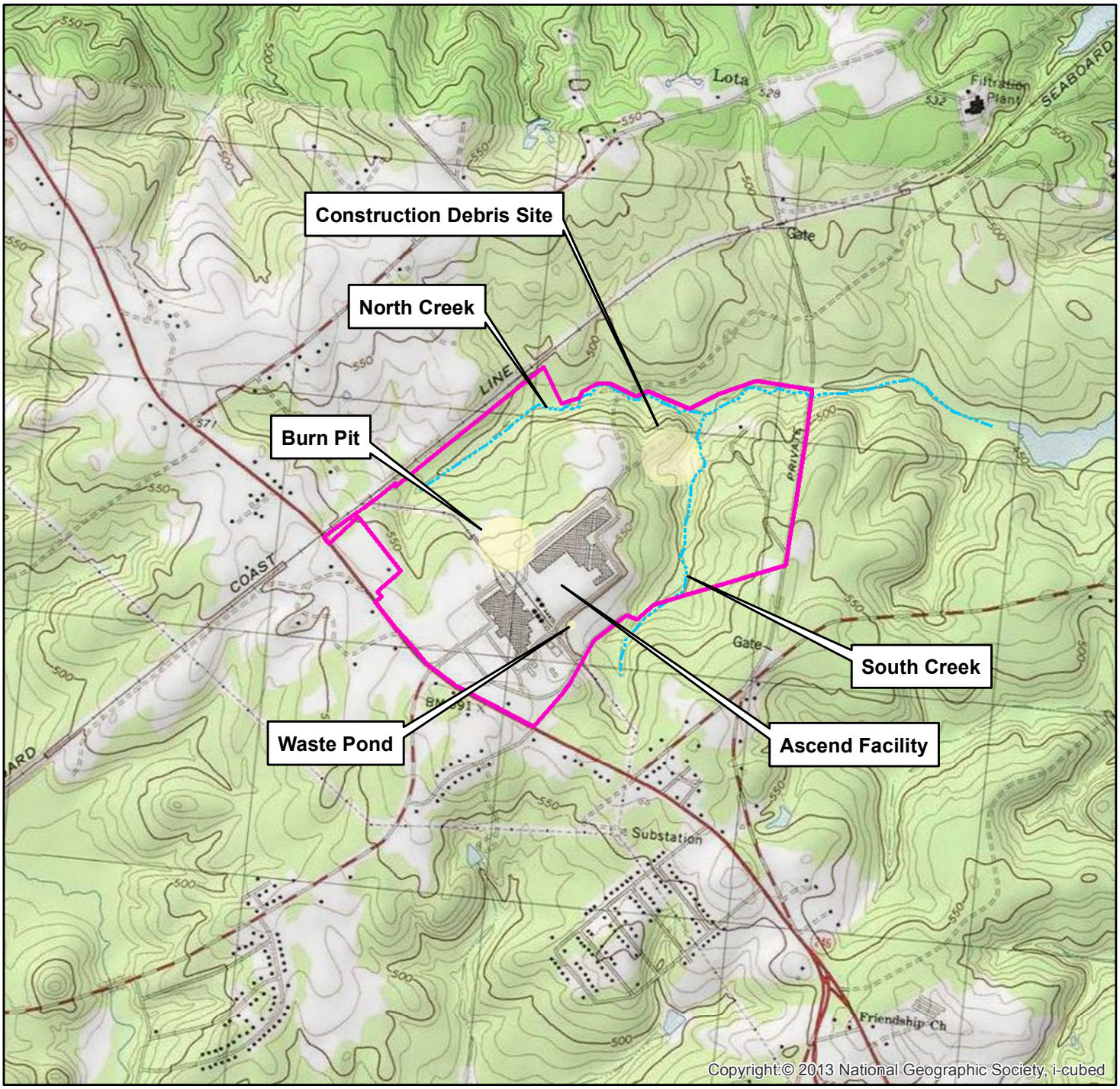
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USEPA, March 6, 2013, Operating Procedure for Ground Water Sampling, Region 4, Science and Ecosystem Support Division, Athens, Georgia, SESDPROC-301-R3.

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FIGURES



0 1,000 2,000 4,000 6,000 8,000

Feet

1 inch = 2,000 feet

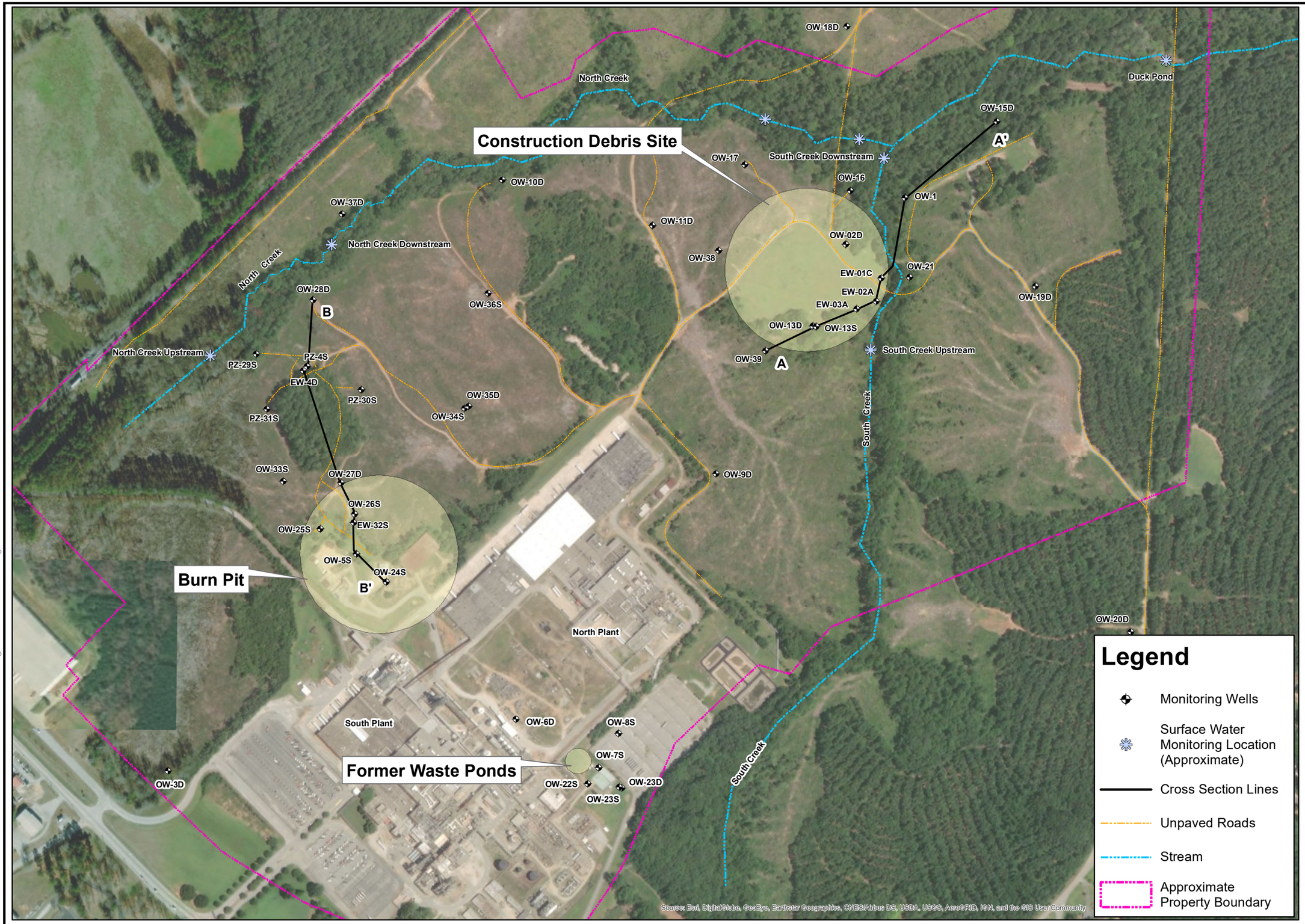
N

USGS Quadrangle Information
Quad ID: 34082-B1
Name: Ninety Six, South Carolina
Date Rev: 1975
Date Pub: 1979

Figure 1
Site Location
Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina
HRP# ASC7000.RA
Scale 1" = 2,000'

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

Path: H:\AV\Ascend Performance Materials\ASC7000.RA - RIWP, GW Assessment\RIWP 2016\Figures\Figure 1 - Site Location.mxd



Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure 2 - Site Plan.mxd

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 440 Feet

Approximate Scale

Revisions						
No.						
Date						

Designed By:	Drawn By:	Reviewed By:
GSC	GSC	DEM

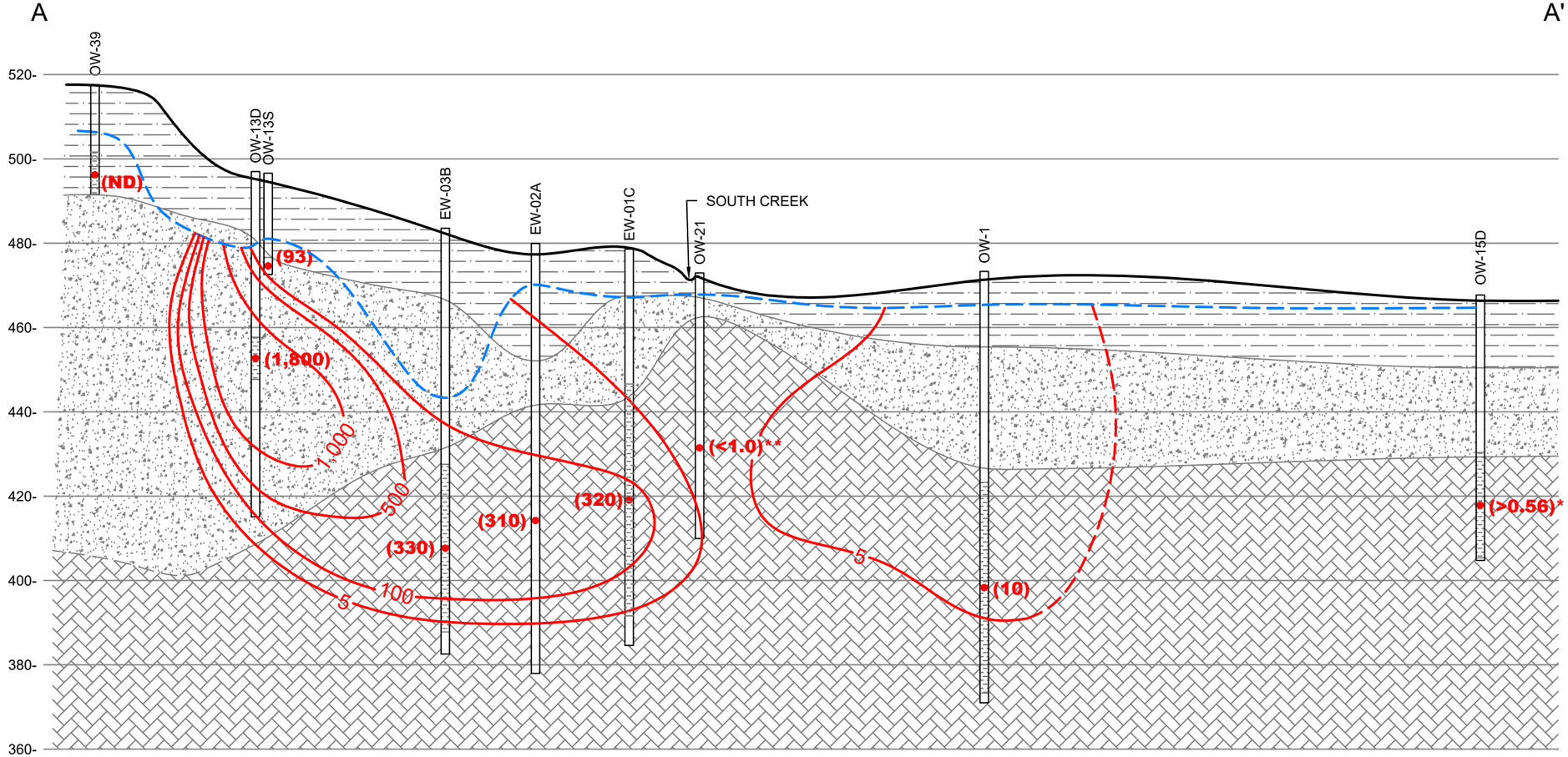
Issue Date:	Project No:	Sheet Size:
4/29/2020	ASC7005.GW	11x17

Site Plan

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

2



NOTES:
1. ALL SUBSURFACE INFORMATION BASED ON HISTORICAL WELL CONSTRUCTION DIAGRAMS AND BORING LOGS.
2. OW-1, OW-13S, OW-13D, OW-15D, OW-21 ELEVATIONS FROM DUNCAN-PARNELL FIGURE DATED 1985(?).
3. "*" DENOTES SAMPLE RESULTS ARE FROM APRIL/MAY 2017 (MOST RECENT)
4. "**" DENOTES SAMPLE RESULTS ARE FROM MARCH 2019 (MOST RECENT)

LEGEND

- SILT, SAND, AND CLAY (FILL AND REGOLITH)
- SAPROLITE
- BEDROCK
- GROUNDWATER SURFACE
- (193) 1,1-DCE CONC. IN ug/L (MARCH 2020)

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

HORIZONTAL SCALE: 0 75' 150'

VERTICAL SCALE: 0 15' 30'

REVISIONS

NO.	DATE

DESIGNED BY: GSC
DRAWN BY: BOB
REVIEWED BY: DEM

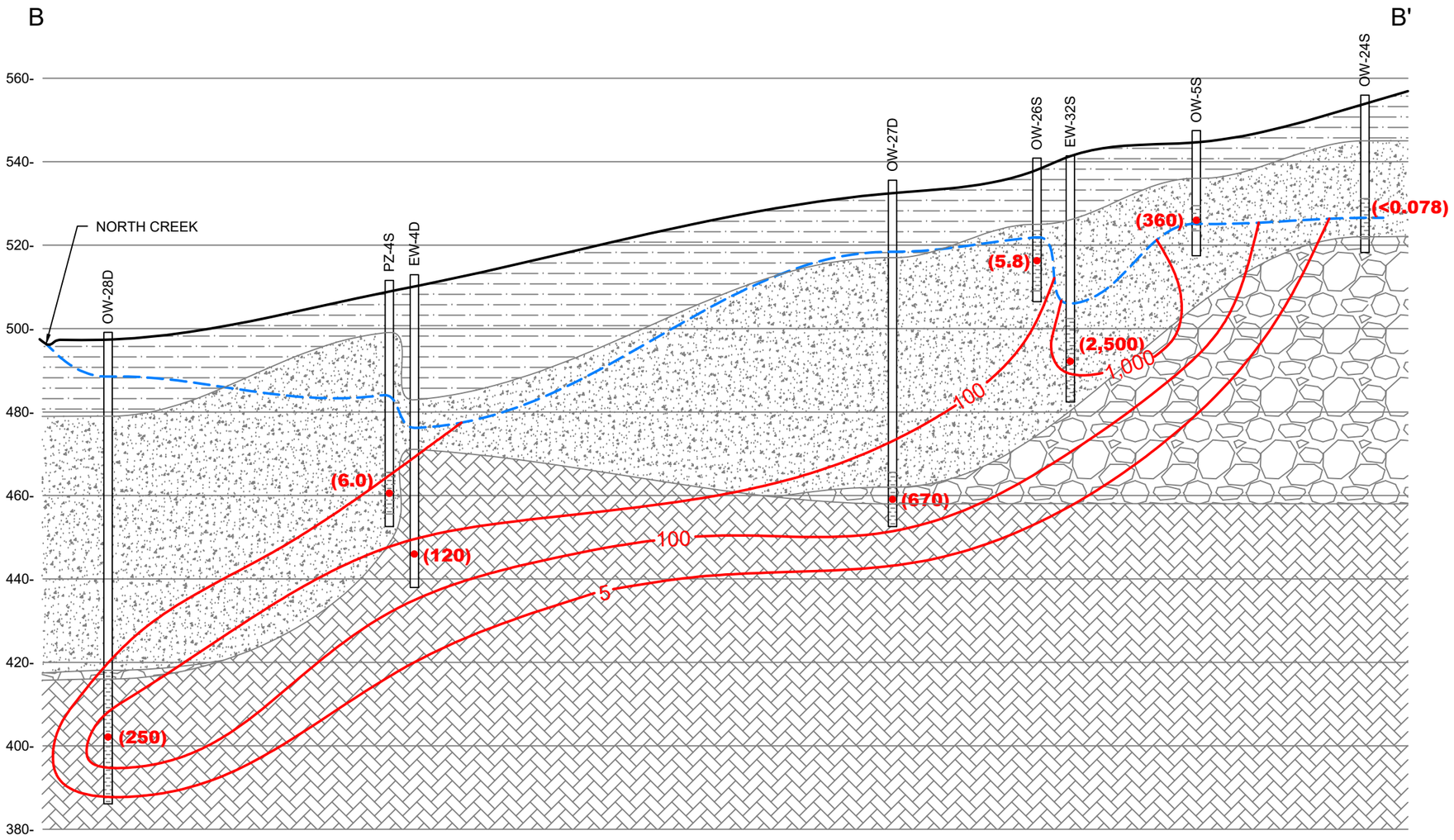
ISSUE DATE: 07/21/2020
PROJECT NUMBER: ASC7005.GW
SHEET SIZE: 11"x17"

CROSS SECTION A-A' CDS PIT

ASCEND PERFORMANCE MATERIALS
1515 HIGHWAY 246 S
GREENWOOD, SOUTH CAROLINA

FIGURE NO. **3**

DRAWING NAME: H:\A\Ascend Performance Materials\ASC7005.GW - GW Sampling O&M Events\2020\March\Figures\Figure 3 and 4 - Cross Sections.dwg LAYOUT: A-A' PLOT DATE: Jul 28, 2020 - 8:04am OPERATOR: BOB



NOTE:
1. ALL SUBSURFACE INFORMATION BASED ON HISTORICAL WELL CONSTRUCTION DIAGRAMS AND BORING LOGS.

LEGEND

- SILT, SAND, AND CLAY (FILL AND REGOLITH)
- SAPROLITE
- PARTIALLY WEATHERED ROCK
- BEDROCK
- GROUNDWATER SURFACE
- (40.5) TCE CONC. IN ug/L (MARCH 2020)

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

0 75' 150'
HORIZONTAL SCALE

0 15' 30'
VERTICAL SCALE

REVISIONS

NO.	DATE

DESIGNED BY: GSC
DRAWN BY: BOB
REVIEWED BY: DEM

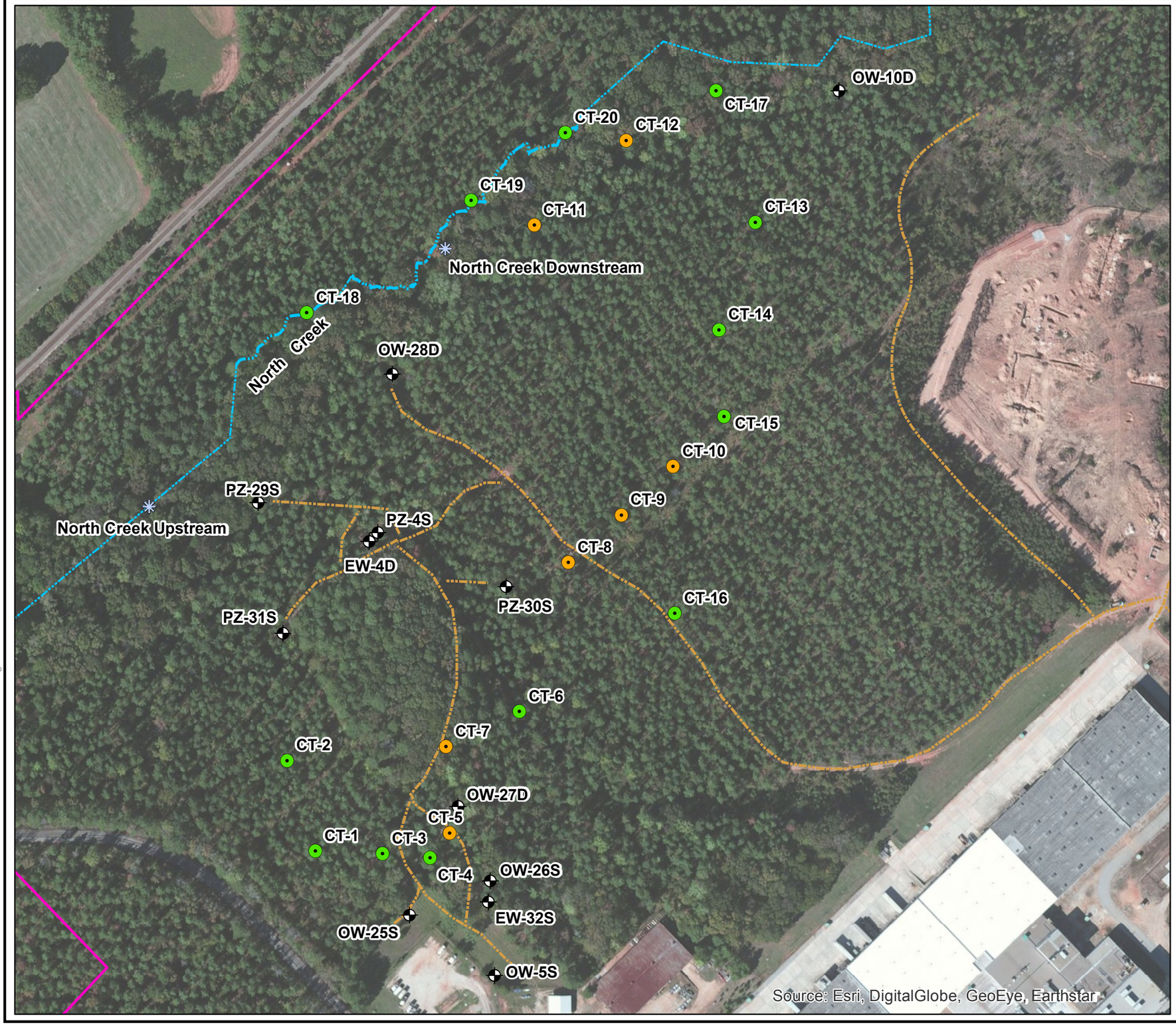
ISSUE DATE: 07/21/2020
PROJECT NUMBER: ASC7005.GW
SHEET SIZE: 11"x17"

CROSS SECTION B-B' FORMER BURN PIT AREA

ASCEND PERFORMANCE MATERIALS
1515 HIGHWAY 246 S
GREENWOOD, SOUTH CAROLINA

FIGURE NO.
4

DRAWING NAME: H:\A\Ascend Performance Materials\ASC7005.GW - GW Sampling O&M Events\2020\March\Figures\Figure 3 and 4 - Cross Sections.dwg LAYOUT: B-B' PLOT DATE: Jul 21, 2020 - 11:42am OPERATOR: BOB



Legend

- Color-Tec Detection
- Color-Tec Non-Detection
- Groundwater Monitoring Well (Approximate)
- Surface Water Monitoring Location (Approximate)
- Unpaved Roadway
- Approximate Property Boundary
- Stream

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 210 Feet

Approximate Scale

Revisions	No.	Date

Designed By:	Drawn By:	Reviewed By:
GSC	GSC	DEM

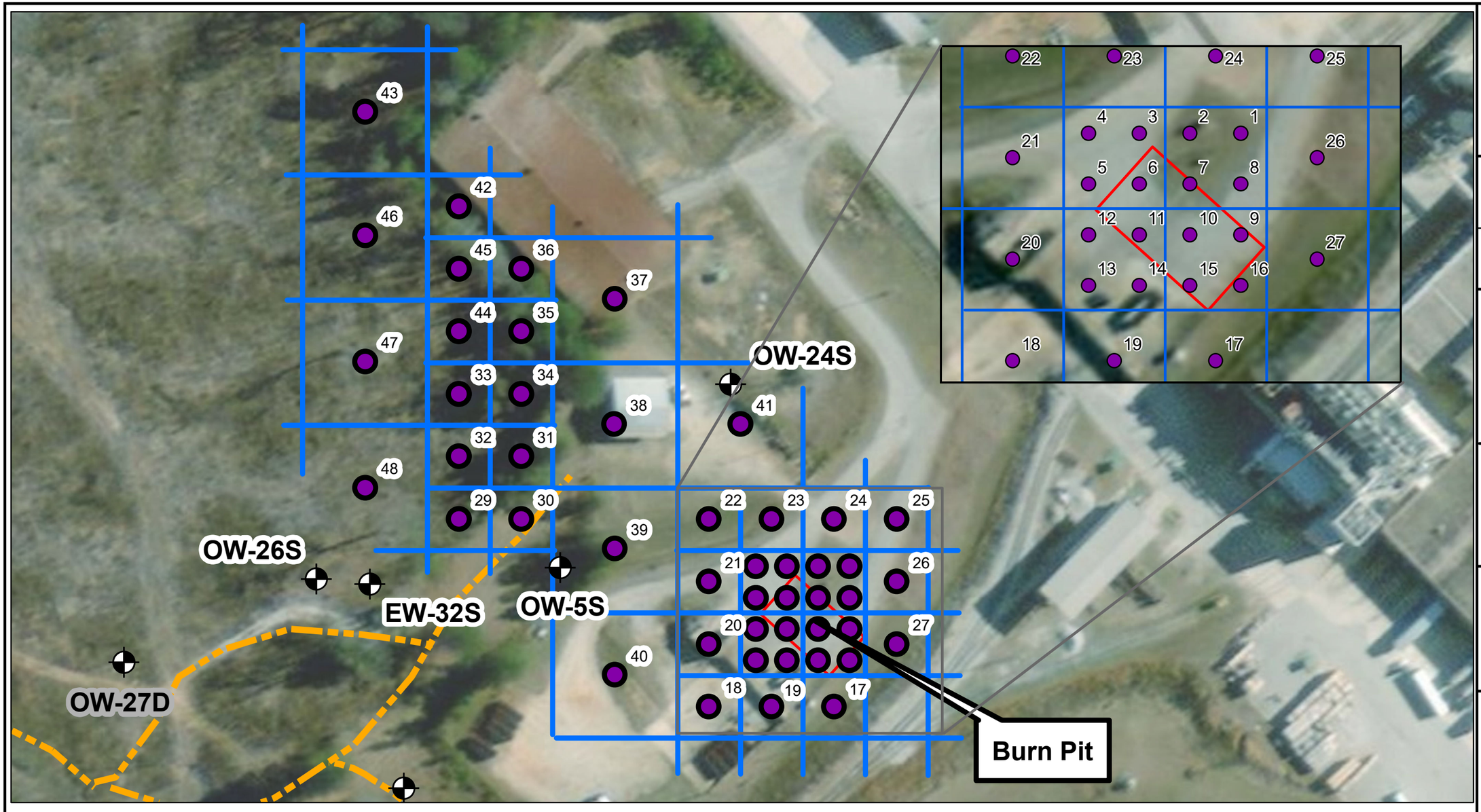
Issue Date:	Project No:	Sheet Size:
10/30/2017	ASC7009.RA	11x17

Color-Tec Field Investigation-
Site Plan (Former BPA)
Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

5

Path: C:\GIS\Ascend Performance Materials\Color-Tec- Oct. 2017\Figure 1- CT Site Plan.mxd



Legend

- PSG Sample Location
- Monitoring Wells
- Unpaved Roads

Notes:

-Concentrations are presented in micrograms per liter (µg/L)

-Shaded well IDs identify deep wells whos concentrations were not used for contouring

-ND - Constituent not detected above laboratory detection limits

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 80 Feet

Approximate Scale

Revisions		
No.	Date	

Designed By: GSC

Drawn By: GSC

Reviewed By: DEM

Issue Date: 1/10/2020

Project No: ASC7019.RA

Sheet Size: 11x17

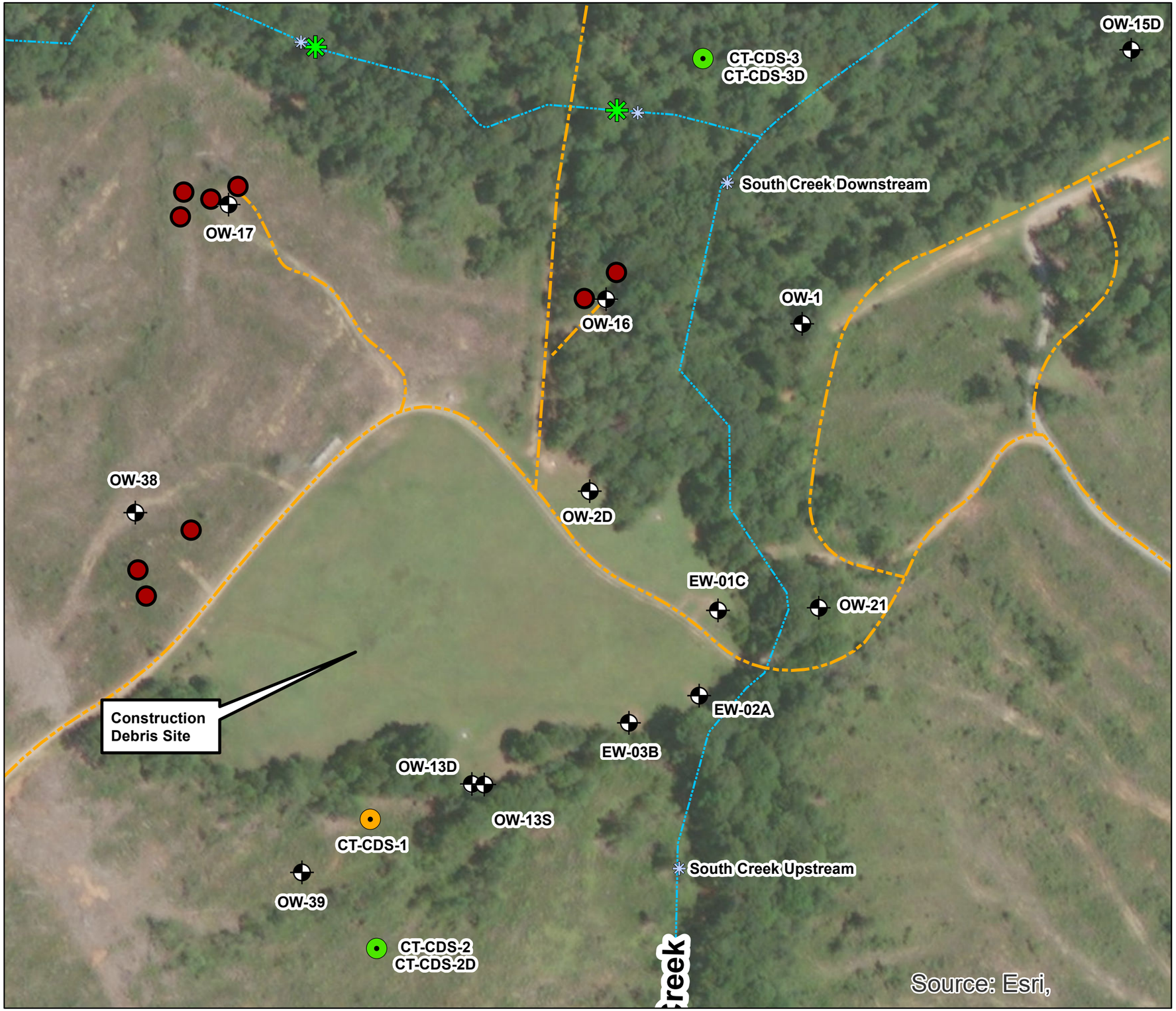
Passive Soi Gas Sampling Grid

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

6

Path: C:\GIS\Ascend Performance Materials\Soil Gas Survey- 2019\Figure 1 - Passive Soil Gas Survey - December 2019.mxd



Legend

- Monitoring Wells
- Color-Tec Geoprobe Refusal
- Color-Tec Detections
- Color-Tec Non-Detections
- Surface Water Monitoring Location (Approximate)
- Proposed Surface Water Sampling Location
- Unpaved Roads
- Stream

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 130
Feet
Approximate Scale

Revisions						
No.						
Date						

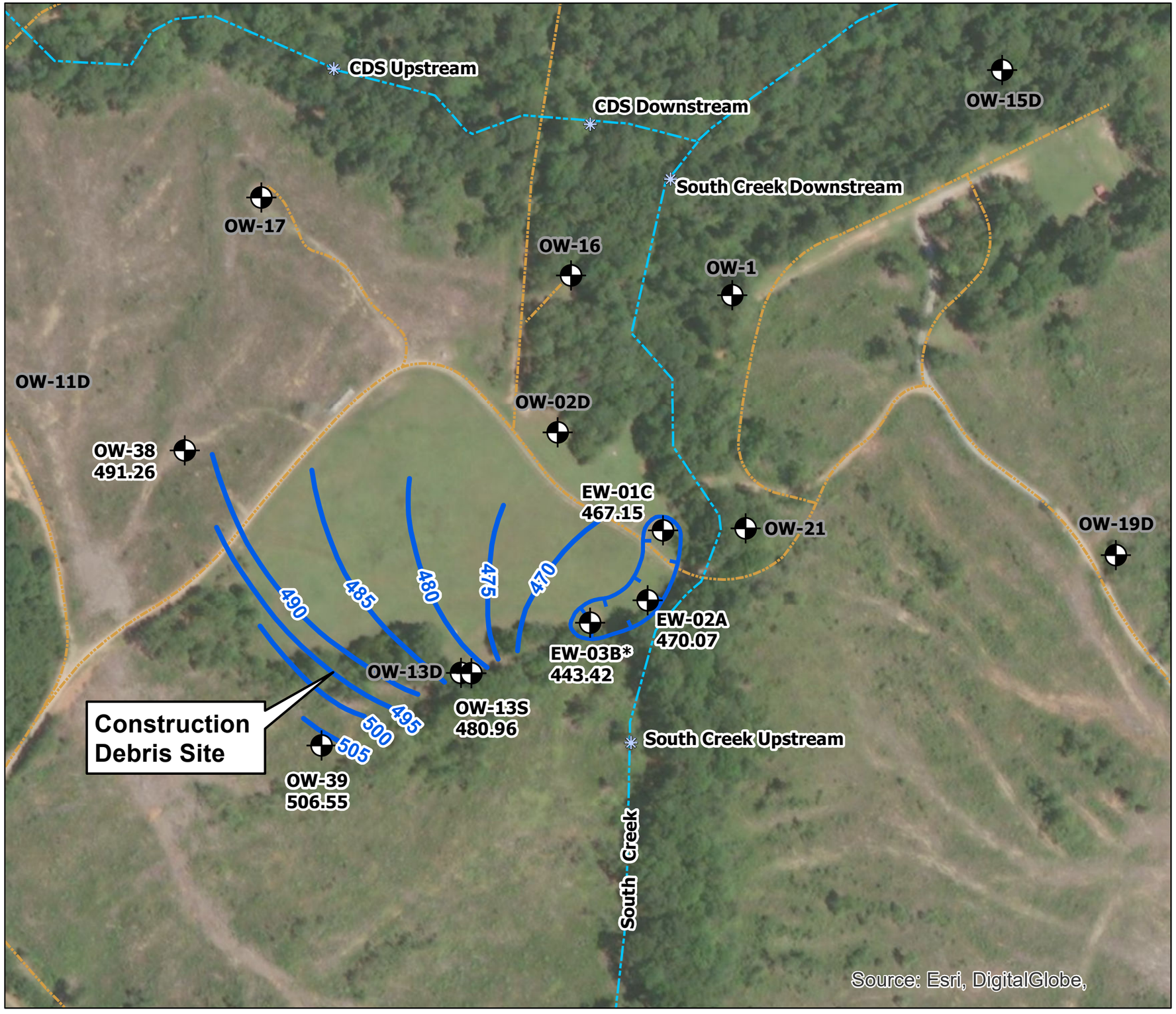
Designed By: GSC	Drawn By: GSC	Reviewed By: DEM
Issue Date: 07/22/2020	Project No: ASC7005.GW	Sheet Size: 11x17

Color-Tec Field Investigation - Site Plan (CDS)

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.
7

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure 7 - CDS CT Site Plan.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Groundwater Elevation (ft amsl)
- Streams
- Unpaved Roadway

Shaded well IDs identify deep wells whos water levels were not used for contouring

*** The elevation measuring point in this location has not been updated since the replacement well was installed.**
The former well's measuring point has been used instead.

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 160 Feet
Approximate Scale

Revisions					
No.					
Date					

Designed By:	Drawn By:	Reviewed By:
GSC	GSC	DEM

Issue Date:	Project No:	Sheet Size:
05/01/2020	ASC7005.GW	11x17

Potentiometric Surface Map
CDS Area (Shallow Aquifer)
March 9, 2020

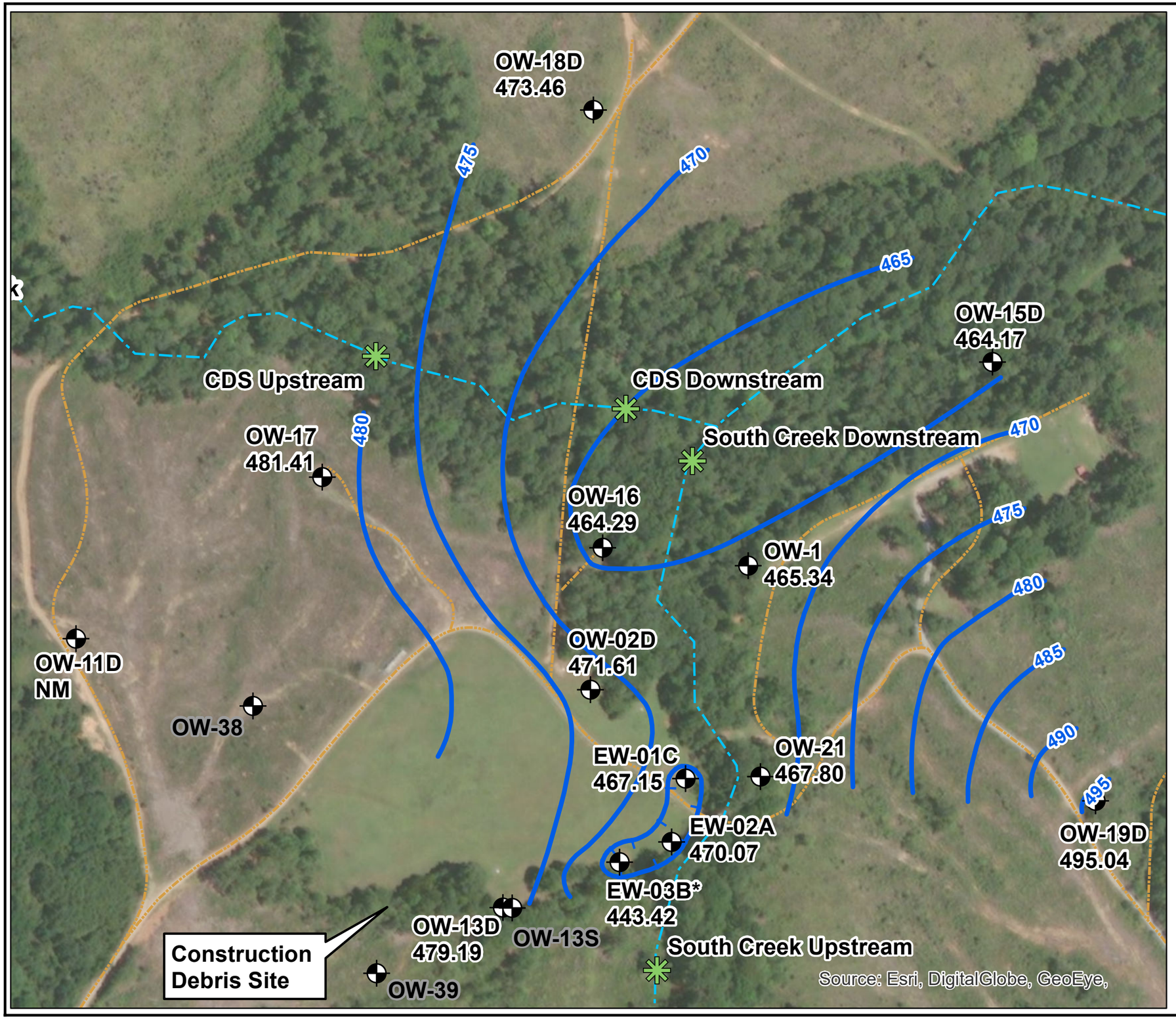
Ascend Performance Materials

1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

8

Path: C:\GIS\Ascend Performance Materials\GW Monitoring- March 2020\Figure 8- CDS Shallow GWE - March 2020.mxd



Legend

- Stream Sample Points
- Monitoring Wells
- Groundwater Elevation (ft amsl)
- Streams
- Unpaved Roadway

Shaded well IDs identify shallow wells whos water levels were not used for contouring

*** The elevation measuring point in this location has not been updated since the replacement well was installed.**
The former well's measuring point has been used instead.

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 180
Feet
Approximate Scale

Revisions					
No.	Date				

Designed By:	Drawn By:	Reviewed By:
GSC	GSC	DEM

Issue Date:	Project No:	Sheet Size:
07/22/2020	ASC7005.GW	11x17

Potentiometric Surface Map
CDS Area (Deep Aquifer)
March 9, 2020

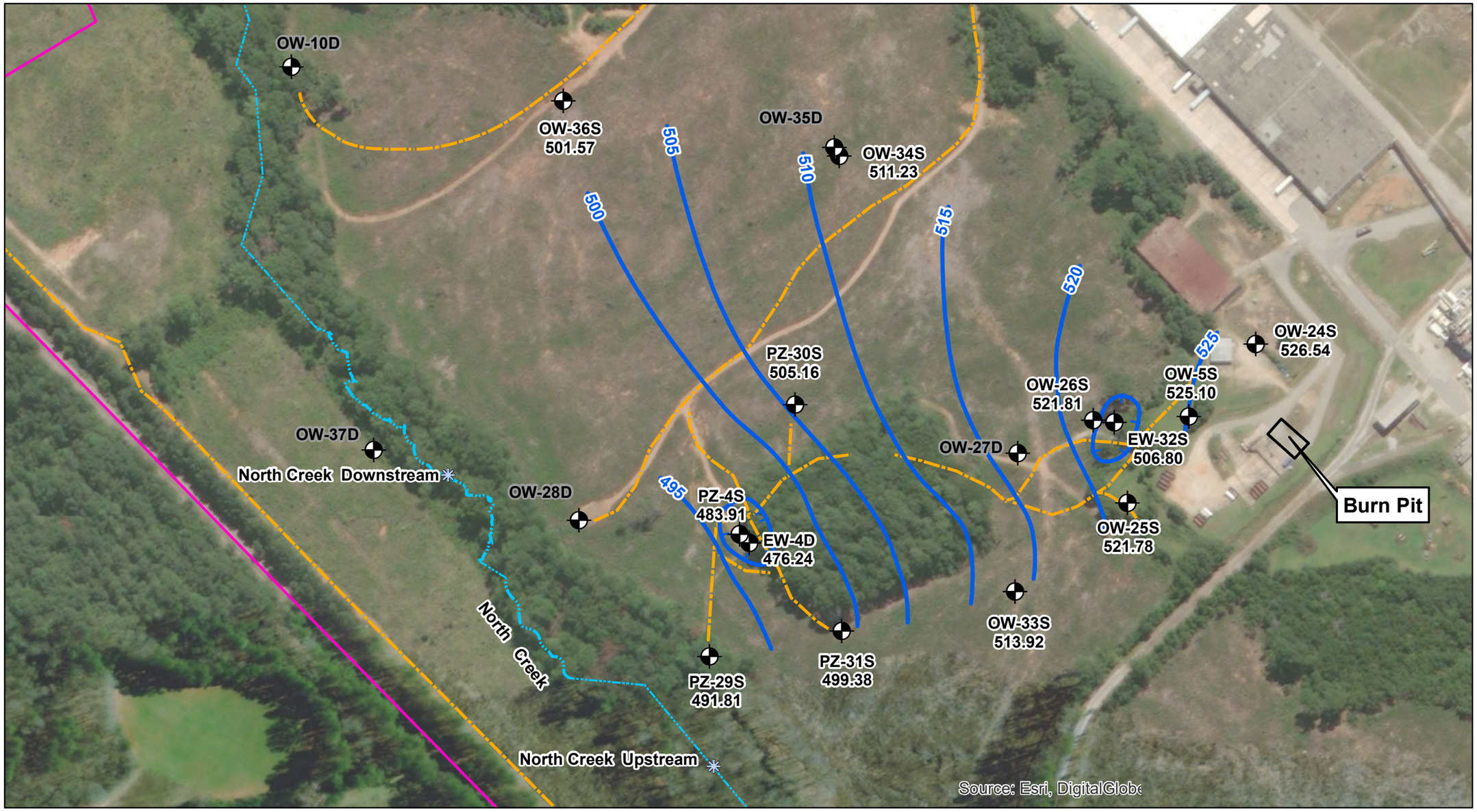
Ascend Performance Materials

1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

9

Path: C:\GIS\Ascend Performance Materials\GW Monitoring- March 2020\Figure 9- CDS Deep GWE - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Unpaved Roads
- Groundwater Elevations (ft amsl)
- Approximate Property Boundary
- Stream

Shaded well IDs identify deep wells whos water levels were not used for contouring

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 210 Feet

Approximate Scale

Revisions						
No.						
Date						

Designed By:	Drawn By:	Reviewed By:
GSC	GSC	DEM

Issue Date:	Project No:	Sheet Size:
05/01/2020	ASC7005.GW	11x17

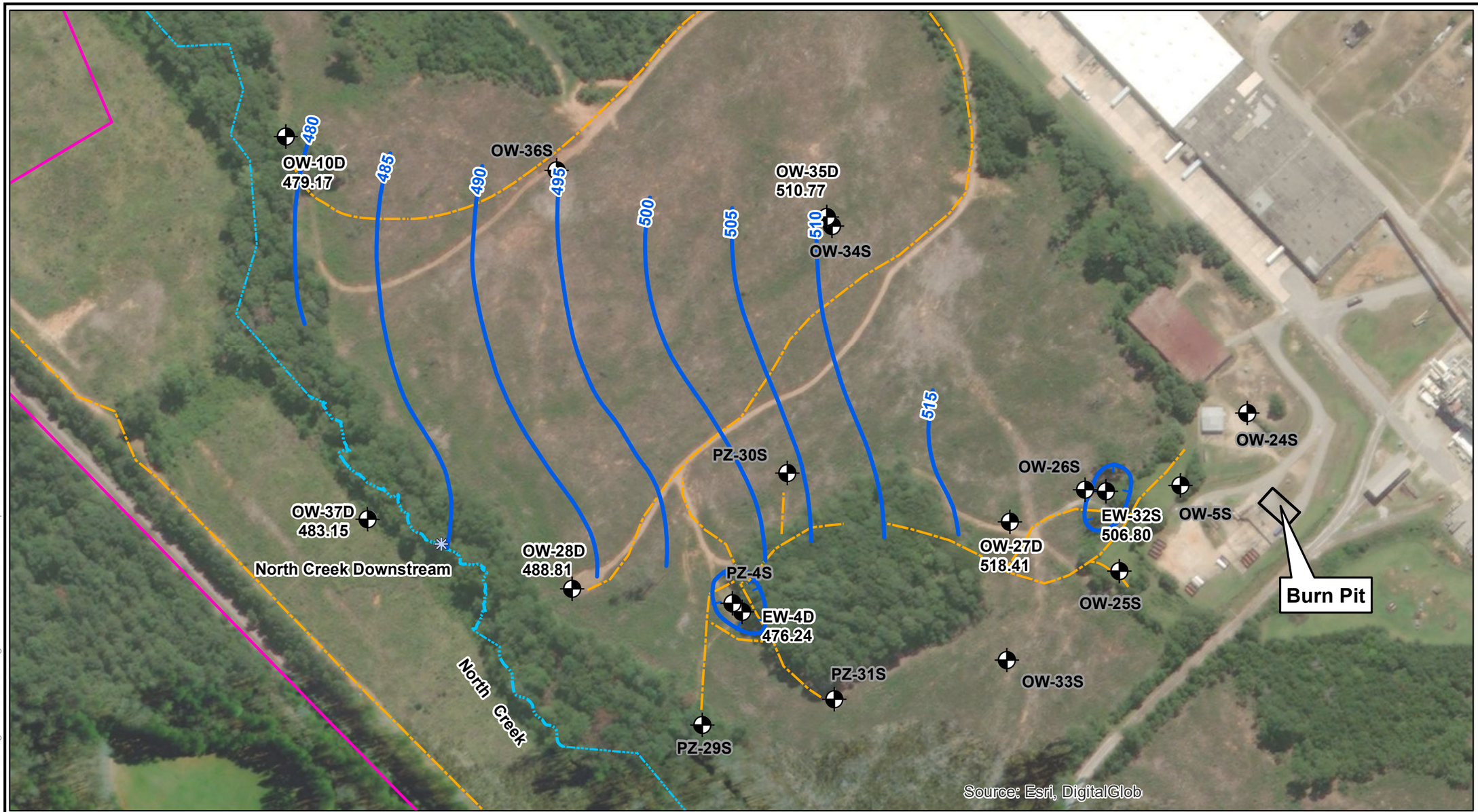
Potentiometric Surface Map
Former Burn Pit Area
(Shallow Aquifer)
March 9, 2020

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

10

Path: C:\GIS\Ascend Performance Materials\GW Monitoring- March 2020\Figure 10- Burn Pit Area Shallow GWE - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Unpaved Roads
- Groundwater Elevations (ft)
- Approximate Property Boundary
- Stream

Shaded well IDs identify shallow wells whos water levels were not used for contouring

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 210 Feet
Approximate Scale

Revisions					
No.					
Date					

Designed By:	Drawn By:	Reviewed By:
GSC	GSC	DEM

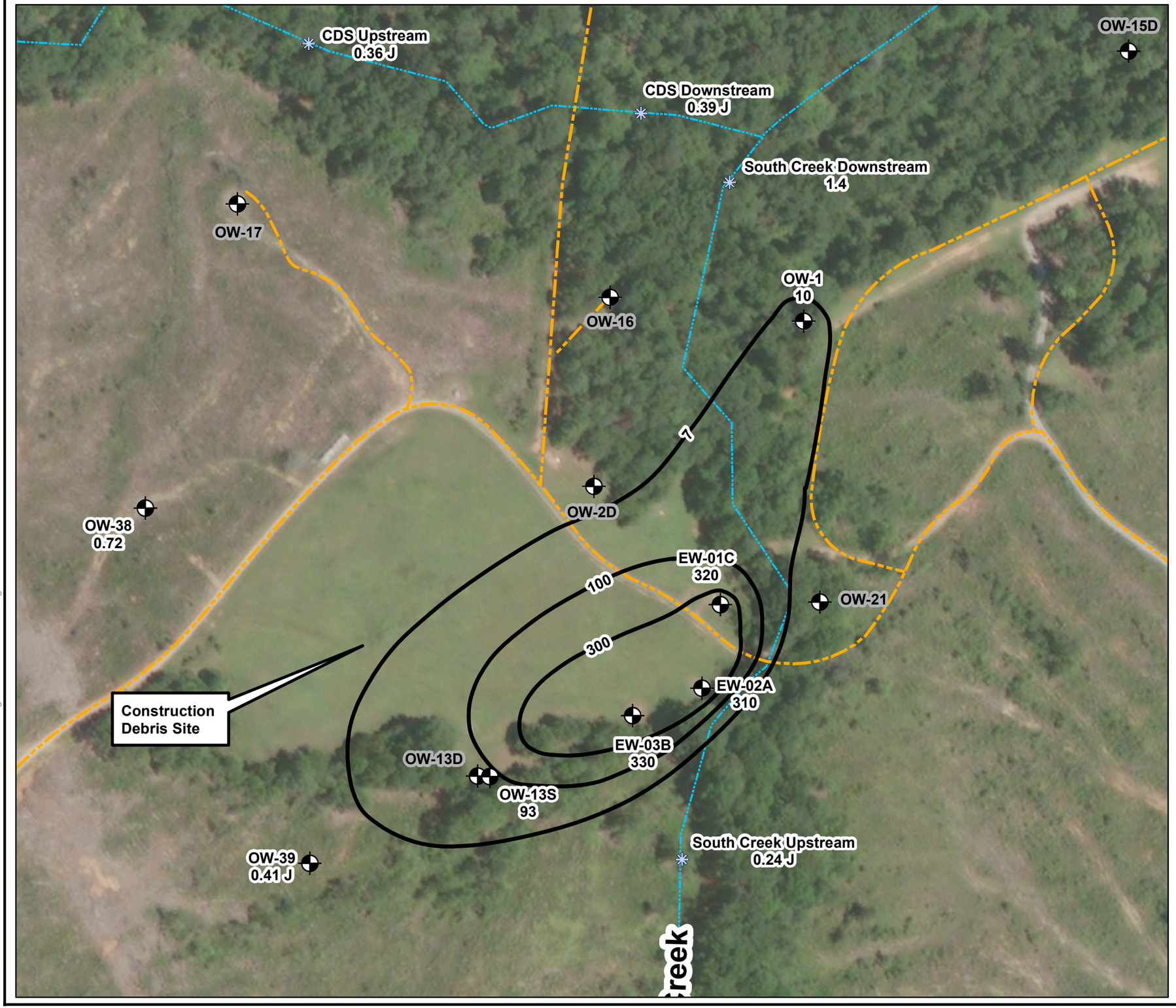
Issue Date:	Project No:	Sheet Size:
07/22/2020	ASC7005.GW	11x17

Potentiometric Surface Map
Former Burn Pit Area
(Deep Aquifer)
March 9, 2020
Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

11

Path: C:\GIS\Ascend Performance Materials\GW Monitoring- March 2020\Figure 11- Burn Pit Area Deep GWE - March 2020.mxd



Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure 12 - CDS Shallow DCE - March 2020.mxd

Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Shallow 1,1-DCE Concentration Contour
- Unpaved Roads
- Stream

Concentrations are presented in micrograms per liter (µg/L)

ND - Constituent not detected above laboratory detection limits

Shaded well IDs identify deep wells not used for contouring

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 130 Feet

Approximate Scale

Revisions		
No.	Date	

Designed By: GSC

Drawn By: GSC

Reviewed By: DEM

Issue Date: 07/17/2020

Project No: ASC7005.GW

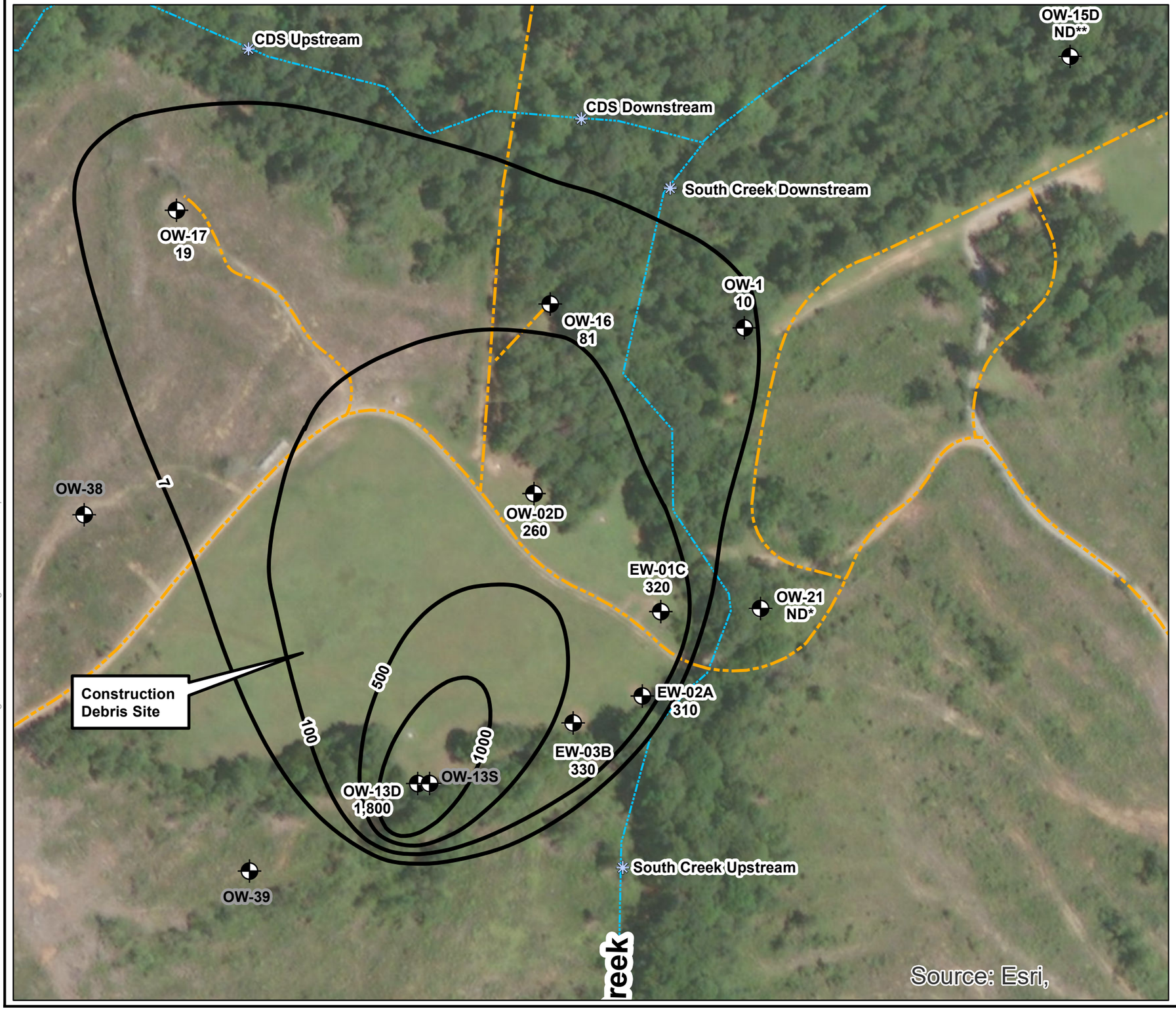
Sheet Size: 11x17

1,1- Dichloroethene Concentration Map
CDS Area (Shallow Aquifer)
March 2020

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

12



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- 1,1-DCE Concentration Contour
- Unpaved Roads
- Stream

Concentrations are presented in micrograms per liter (µg/L)

*** Indicates data is from March 2019 sampling event**

**** Indicates data is from September 2017 sampling event**

ND - Constituent not detected above laboratory detection limits

Shaded well IDs identify shallow wells whos concentrations were not used for contouring

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 130 Feet

Approximate Scale

Revisions						
No.						
Date						

Designed By:	Drawn By:	Reviewed By:
GSC	GSC	DEM

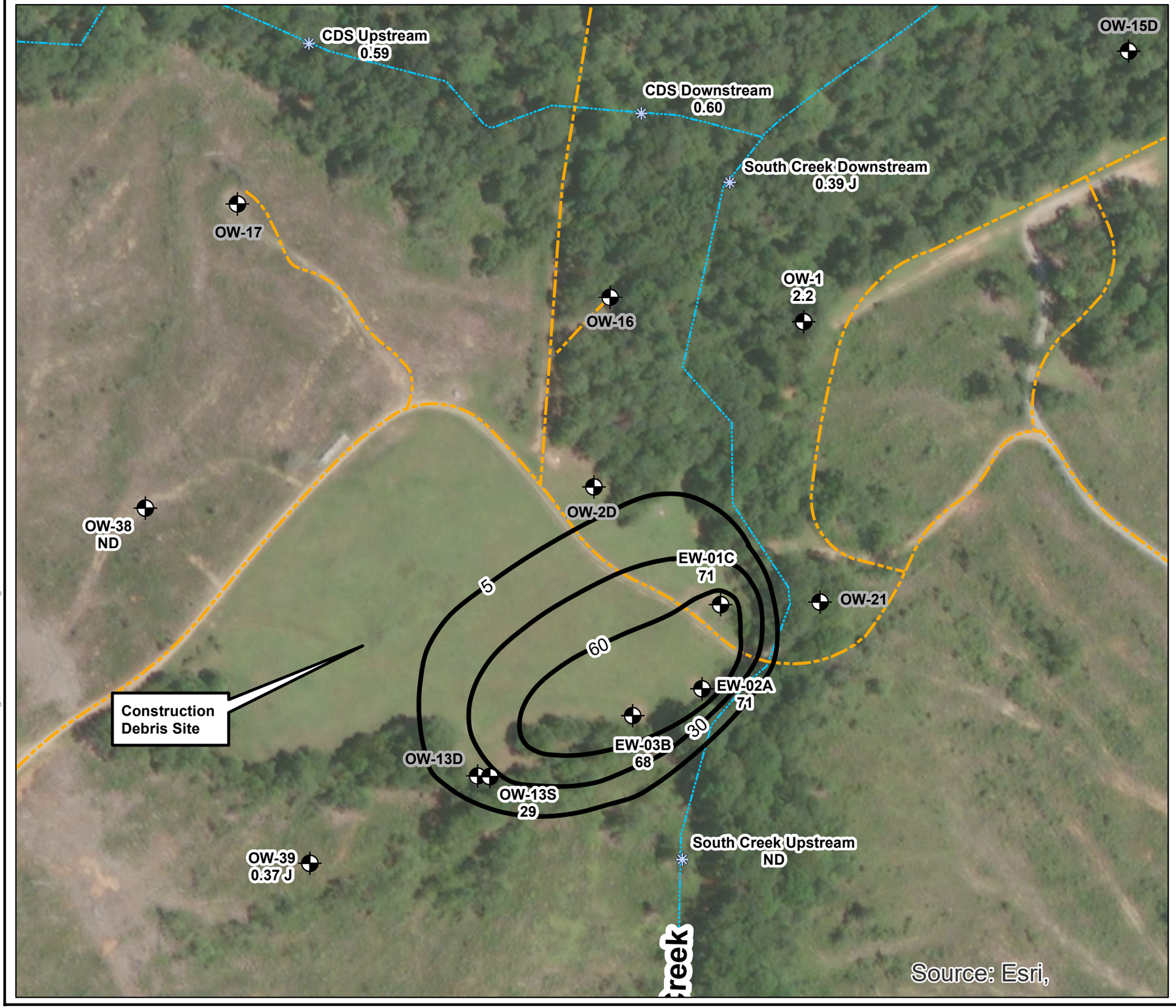
Issue Date:	Project No:	Sheet Size:
07/24/2020	ASC7005.GW	11x17

1,1- Dichloroethene Concentration Map
CDS Area (Deep Aquifer)
March 2020
Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

13

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure 13 - CDS Deep DCE - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Shallow TCE Concentration Contours
- Unpaved Roads
- Stream

Concentrations are presented in micrograms per liter (µg/L)

ND - Constituent not detected above laboratory detection limits

Shaded well IDs identify deep wells whos concentrations were not used for contouring

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 130 Feet

Approximate Scale

Revisions						
No.	Date					

Designed By: GSC	Drawn By: GSC	Reviewed By: DEM
Issue Date: 07/24/2020	Project No: ASC7005.GW	Sheet Size: 11x17

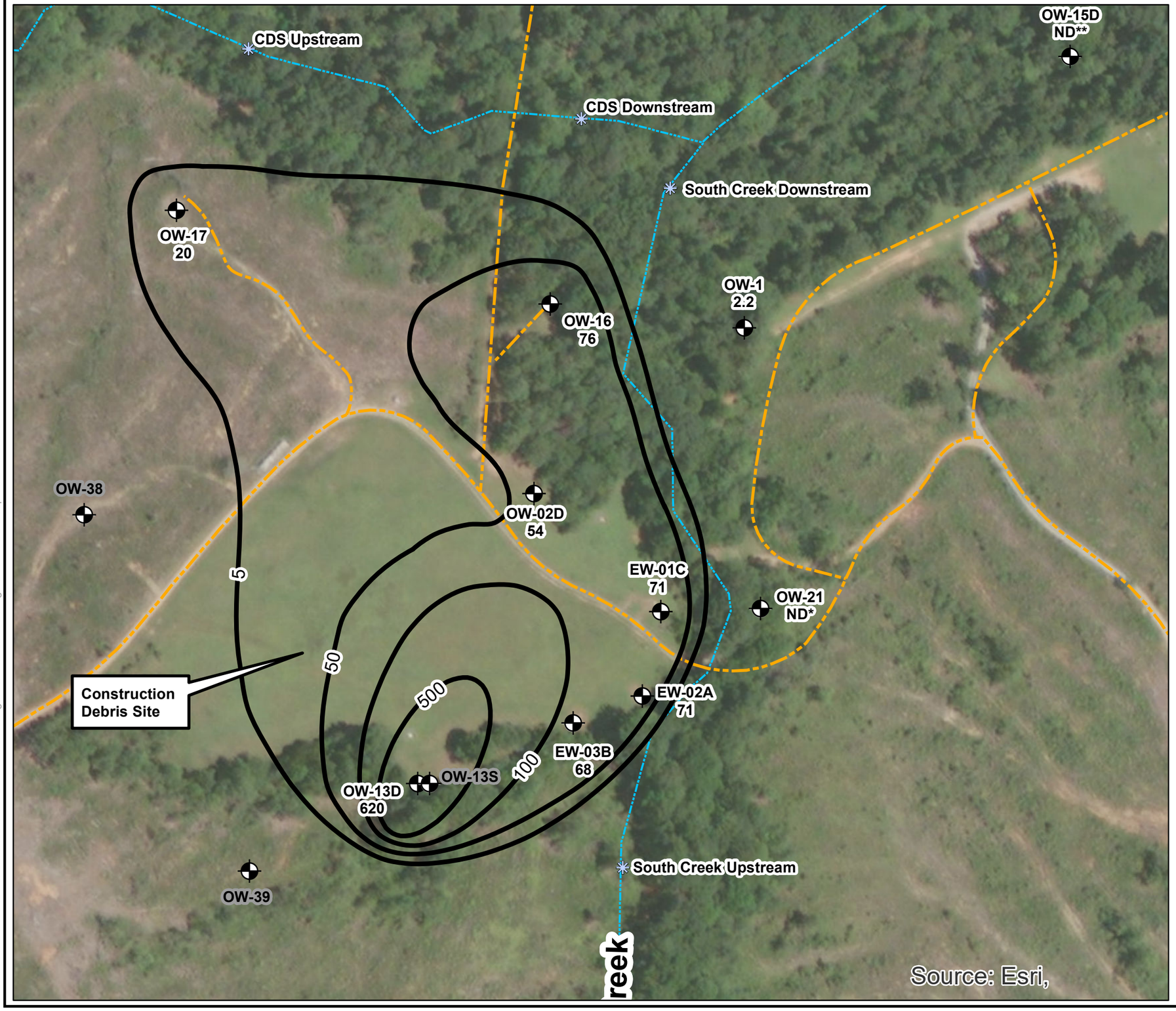
TCE Concentration Map
CDS Area (Shallow Aquifer)
March 2020

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

14

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure 14 - CDS Shallow TCE - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Deep TCE Concentration Contour
- Unpaved Roads
- Stream

Concentrations are presented in micrograms per liter (µg/L)

*** Indicates data is from March 2019 sampling event**

**** Indicates data is from September 2017 sampling event**

ND - Constituent not detected above laboratory detection limits

Shaded well IDs identify shallow wells whos concentrations were not used for contouring

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 130 Feet

Approximate Scale

Revisions						
No.						
Date						

Designed By: GSC	Drawn By: GSC	Reviewed By: DEM
Issue Date: 7/24/2020	Project No: ASC7005.GW	Sheet Size: 11x17

TCE
Concentration Map
CDS Area (Deep Aquifer)
March 2020
Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

15

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure 15 - CDS Deep TCE - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Unpaved Roads
- Stream

Concentrations are presented in micrograms per liter (µg/L)

ND - Constituent not detected above laboratory detection limits

Shaded well IDs identify deep wells not used for contouring

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 130 Feet

Approximate Scale

Revisions						
No.						
Date						

Designed By: SLM	Drawn By: SLM	Reviewed By: DEM	
Issue Date: 10/15/2020	Project No: ASC7005.GW	Sheet Size: 11x17	

PCE Concentration Map
CDS Area (Shallow Aquifer)
March 2020

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

16

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure X - CDS Shallow PCE - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Unpaved Roads
- Stream

Concentrations are presented in micrograms per liter (µg/L)

*** Indicates data is from March 2019 sampling event**

**** Indicates data is from September 2017 sampling event**

ND - Constituent not detected above laboratory detection limits

Shaded well IDs identify shallow wells not used for contouring

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 130 Feet

Approximate Scale

Revisions						
No.	Date					

Designed By:	Drawn By:	Reviewed By:
SLM	SLM	DEM

Issue Date:	Project No:	Sheet Size:
10/15/2020	ASC7005.GW	11x17

PCE
Concentration Map
CDS Area (Deep Aquifer)
March 2020
Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

17

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure X - CDS Deep PCE - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Unpaved Roads
- Stream

Concentrations are presented in micrograms per liter (µg/L)

ND - Constituent not detected above laboratory detection limits

Shaded well IDs identify deep wells not used for contouring

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 130 Feet

Approximate Scale

Revisions						
No.	Date					

Designed By: SLM	Drawn By: SLM	Reviewed By: DEM
Issue Date: 10/15/2020	Project No: ASC7005.GW	Sheet Size: 11x17

1,2-DCA
Concentration Map
CDS Area (Shallow Aquifer)
March 2020

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

18

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure X - CDS Shallow DCA - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Deep 1,2-DCA Concentration Contours
- Unpaved Roads
- Stream

Concentrations are presented in micrograms per liter (µg/L)

*** Indicates data is from March 2019 sampling event**

**** Indicates data is from September 2017 sampling event**

ND - Constituent not detected above laboratory detection limits

Shaded well IDs identify shallow wells not used for contouring

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 130 Feet

Approximate Scale

Revisions						
No.						
Date						

Designed By:	Drawn By:	Reviewed By:
SLM	SLM	DEM

Issue Date:	Project No:	Sheet Size:
10/15/2020	ASC7005.GW	11x17

1,2-DCA Concentration Map
CDS Area (Deep Aquifer)
March 2020

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

19

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure X - CDS Deep DCA - March 2020.mxd

CDS Upstream
ND

CDS Downstream
ND

South Creek Downstream
ND

OW-15D

OW-17

OW-16

OW-1
ND

OW-38
ND

OW-2D

EW-01C
2.1 J

OW-21

2

EW-02A
2.2 J

Construction
Debris Site

EW-03B
2.1 J

OW-13D

OW-13S
0.24

OW-39
ND

South Creek Upstream
ND

reek

Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Shallow Vinyl Chloride Concentration Contour
- Unpaved Roads
- Stream

Concentrations are presented in micrograms per liter (µg/L)

ND - Constituent not detected above laboratory detection limits

Shaded well IDs identify deep wells not used for contouring

HRP
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GREENVILLE, SC 29607
(864) 289-0311
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North

0 130
Feet
Approximate Scale

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No.	Date				

Designed By: SLM	Drawn By: SLM	Reviewed By: DEM
Issue Date: 10/15/2020	Project No: ASC7005.GW	Sheet Size: 11x17

Vinyl Chloride Concentration Map
CDS Area (Shallow Aquifer)
March 2020

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

20

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure X - CDS Shallow VC - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Deep Vinyl Chloride Concentration Contour
- Unpaved Roads
- Stream

Concentrations are presented in micrograms per liter (µg/L)

*** Indicates data is from March 2019 sampling event**

**** Indicates data is from September 2017 sampling event**

ND - Constituent not detected above laboratory detection limits

Shaded well IDs identify shallow wells not used for contouring

HRP
MOVE YOUR ENVIRONMENT FORWARD
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SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 130 Feet

Approximate Scale

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No.						
Date						

Designed By:	Drawn By:	Reviewed By:
SLM	SLM	DEM

Issue Date:	Project No:	Sheet Size:
10/15/2020	ASC7005.GW	11x17

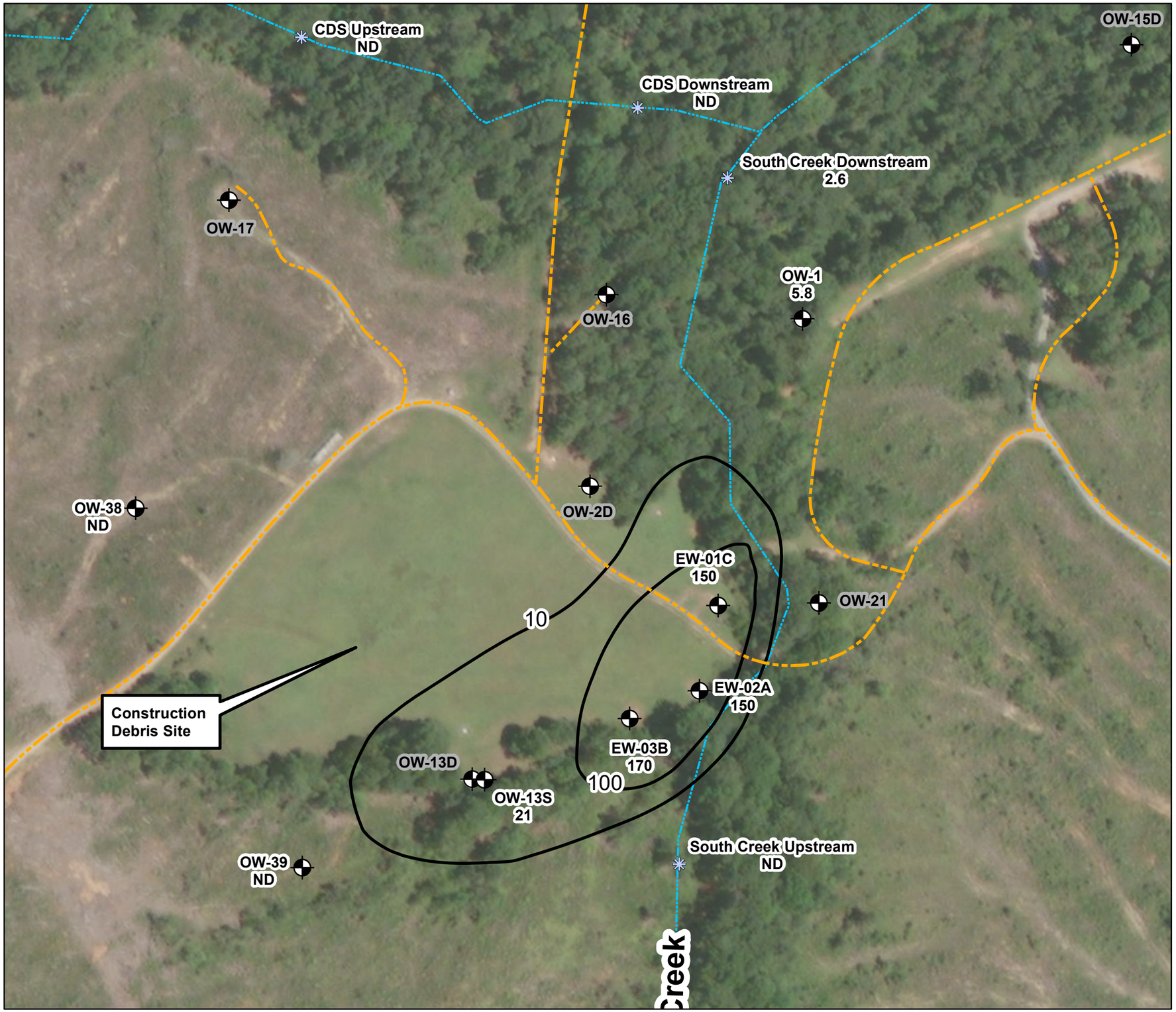
Vinyl Chloride Concentration Map
CDS Area (Deep Aquifer)
March 2020

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

21

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure X - CDS Deep VC - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Unpaved Roads
- Shallow 1,4-Dioxane Concentration Contour
- Stream

Concentrations are presented in micrograms per liter (µg/L)

ND - Constituent not detected above laboratory detection limits

Shaded well IDs identify deep wells not used for contouring

HRP
MOVE YOUR ENVIRONMENT FORWARD
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SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 130 Feet

Approximate Scale

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No.	Date					

Designed By:	Drawn By:	Reviewed By:
SLM	SLM	DEM

Issue Date:	Project No:	Sheet Size:
10/15/2020	ASC7005.GW	11x17

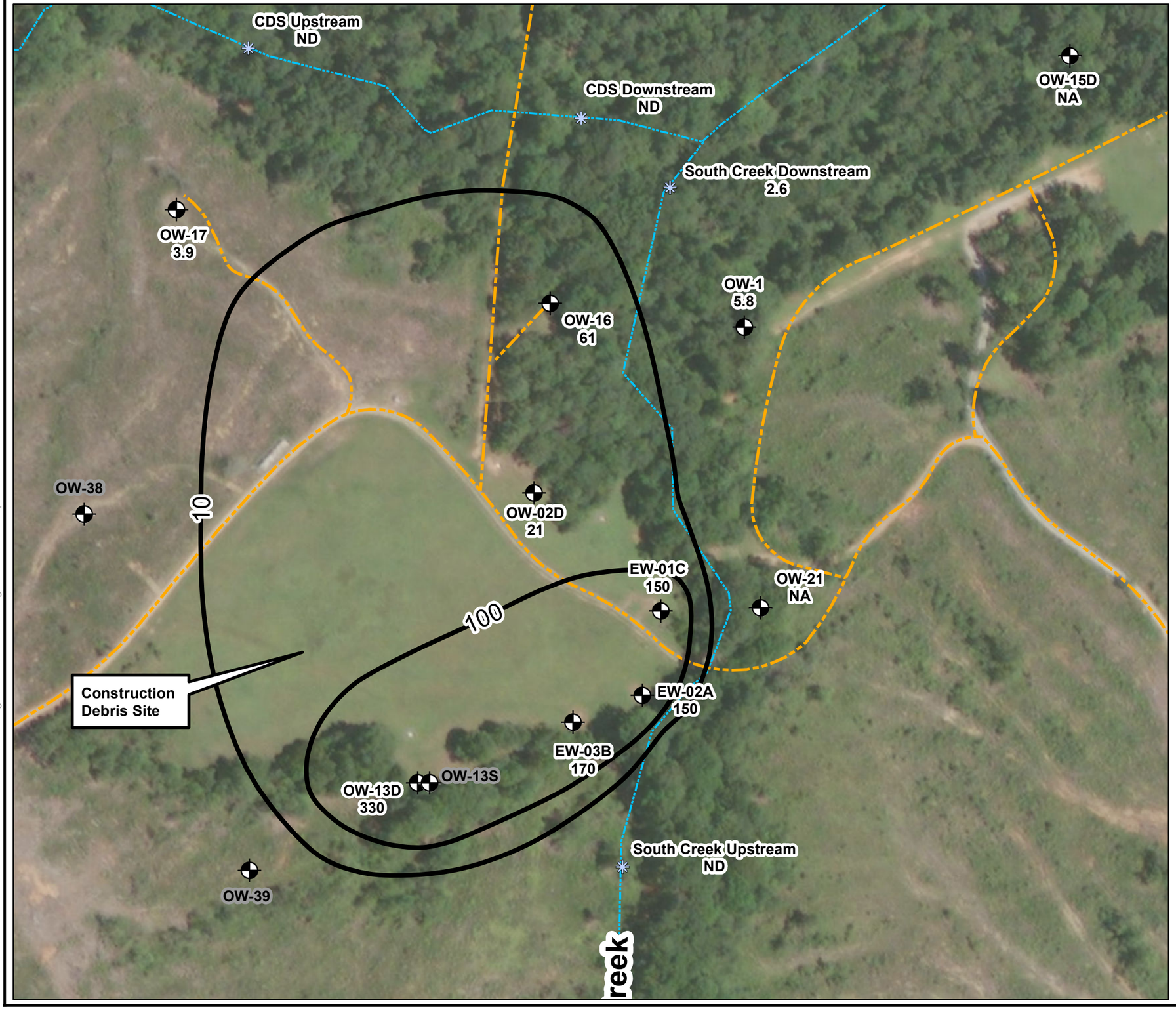
1,4-Dioxane
Concentration Map
CDS Area (Shallow Aquifer)
March 2020

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

22

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure X - CDS Shallow 1 4 Dioxane- March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Deep 1,4-Dioxane Concentration Contours
- Unpaved Roads
- Stream

Concentrations are presented in micrograms per liter (µg/L)

NA - Constituent not analyzed in most recent sample

ND - Constituent not detected above laboratory detection limits

Shaded well IDs identify shallow wells not used for contouring

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 130 Feet

Approximate Scale

Revisions						
No.						
Date						

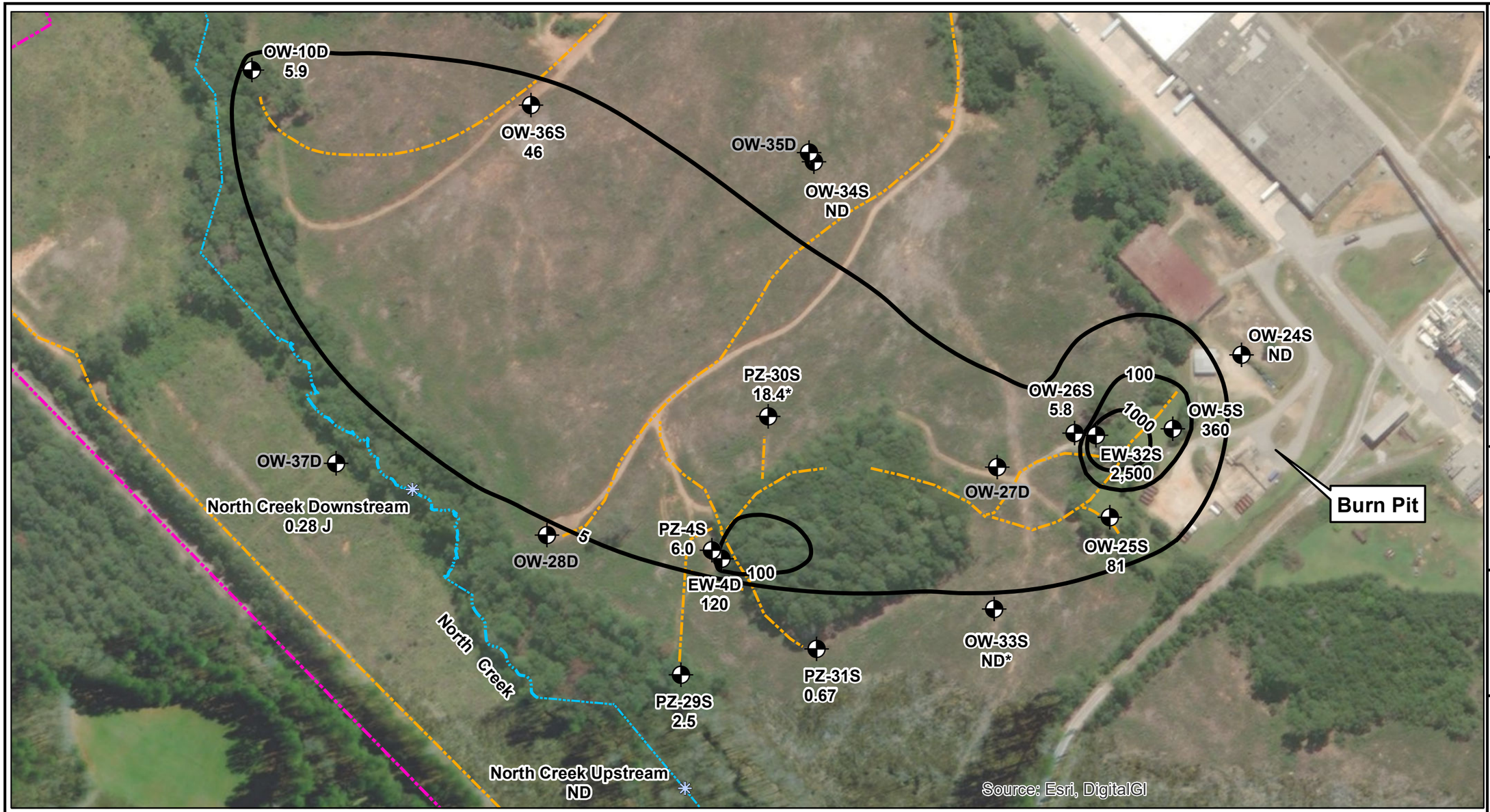
Designed By: SLM	Drawn By: SLM	Reviewed By: DEM
Issue Date: 10/15/2020	Project No: ASC7005.GW	Sheet Size: 11x17

1,4-Dioxane Concentration Map
CDS Area (Deep Aquifer)
March 2020
Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

23

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure X - CDS Deep Dioxane - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Shallow TCE Concentration Contours
- Unpaved Roads
- Stream
- Approximate Property Boundary

Concentrations are presented in micrograms per liter (µg/L)

Shaded well IDs identify deep wells not used for contouring

ND - Constituent not detected above laboratory detection limits

*** Indicates data is from March 2019 sampling event**

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 200 Feet

Approximate Scale

Revisions						
No.						
Date						

Designed By: GSC

Drawn By: GSC

Reviewed By: DEM

Issue Date: 07/24/2020

Project No: ASC7005.GW

Sheet Size: 11x17

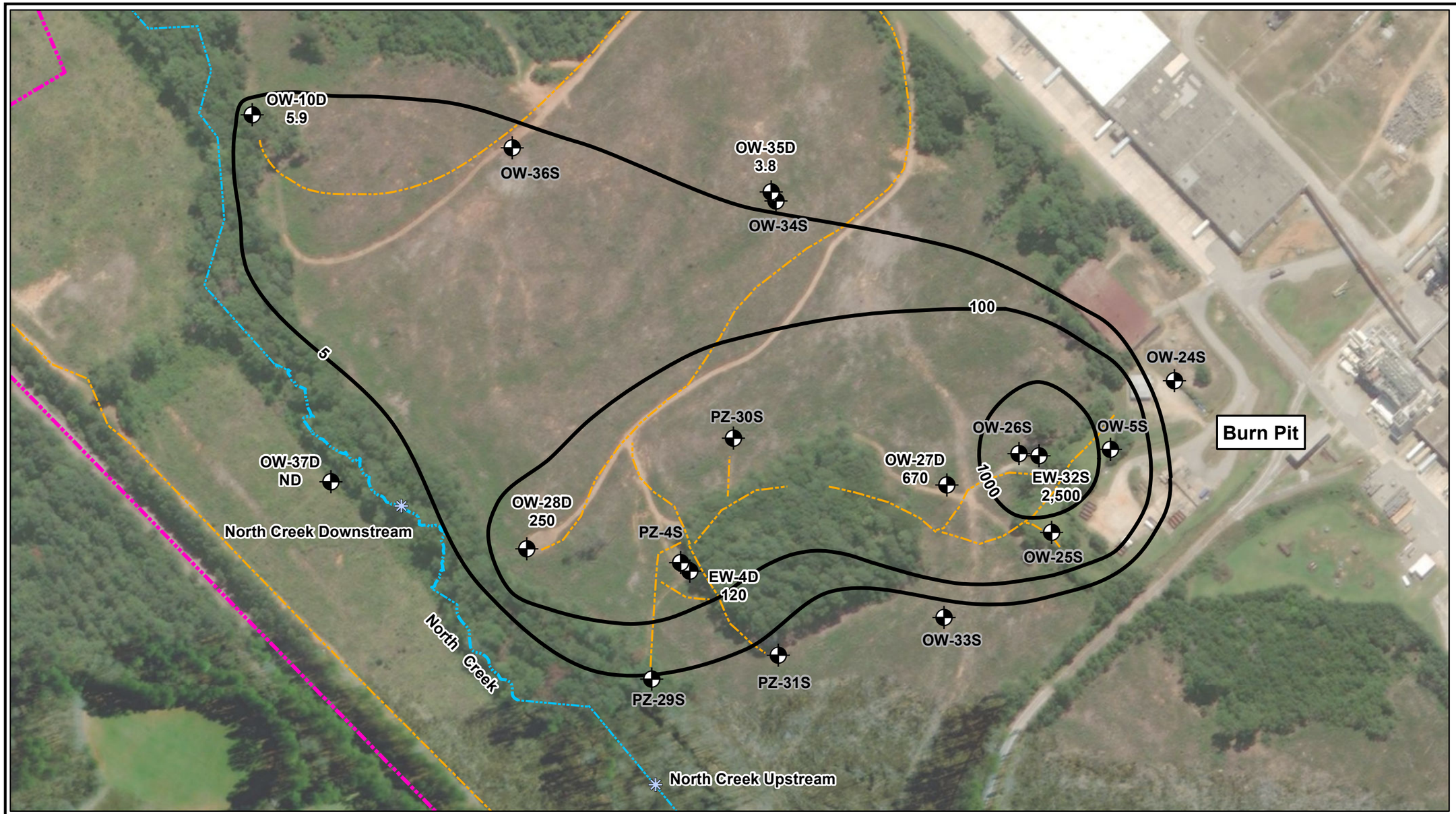
TCE Concentration Map
Former Burn Pit Area
(Shallow Aquifer)
March 2020

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

24

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure 16 - Burn Pit Shallow TCE - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Deep TCE Concentration Contours
- Unpaved Roads
- Approximate Property Boundary
- Stream

Concentrations are presented in micrograms per liter (µg/L)

ND - Constituent not detected above laboratory detection limits

Shaded well IDs identify shallow wells not used for contouring

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 210 Feet

Approximate Scale

Revisions					
No.					
Date					

Designed By:	Drawn By:	Reviewed By:
GSC	GSC	DEM

Issue Date:	Project No:	Sheet Size:
07/17/2020	ASC7005.GW	11x17

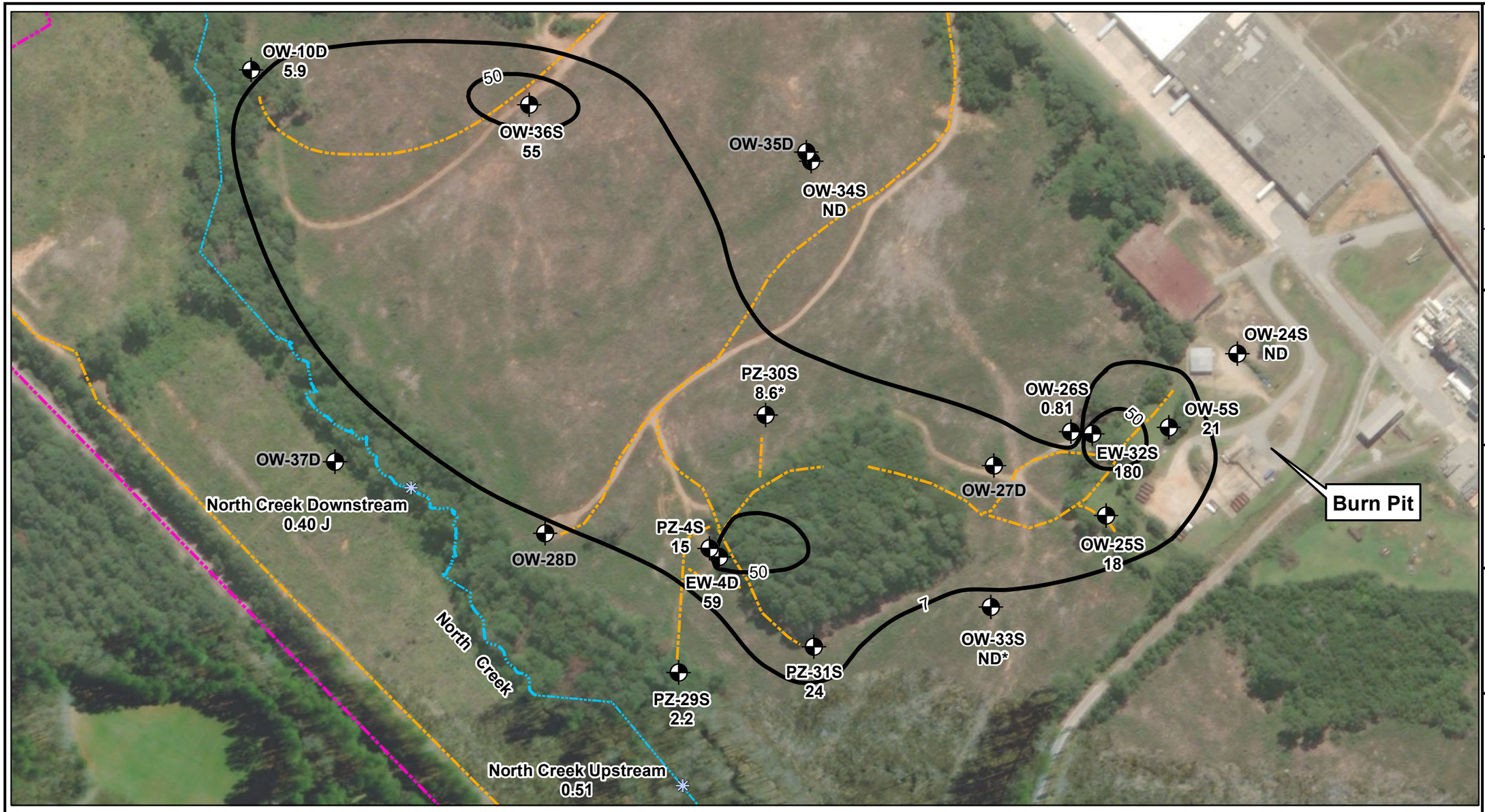
TCE Concentration Map
Former Burn Pit Area
(Deep Aquifer)
March 2020

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

25

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure 17 - Burn Pit Deep TCE - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Shallow DCE Concentration Contours
- Unpaved Roads
- Stream
- Approximate Property Boundary

Concentrations are presented in micrograms per liter (µg/L)

Shaded well IDs identify deep wells not used for contouring

ND - Constituent not detected above laboratory detection limits

*** Indicates data is from March 2019 sampling event**

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 200 Feet

Approximate Scale

Revisions						
No.						
Date						

Designed By: GSC

Drawn By: GSC

Reviewed By: DEM

Issue Date: 07/24/2020

Project No: ASC7005.GW

Sheet Size: 11x17

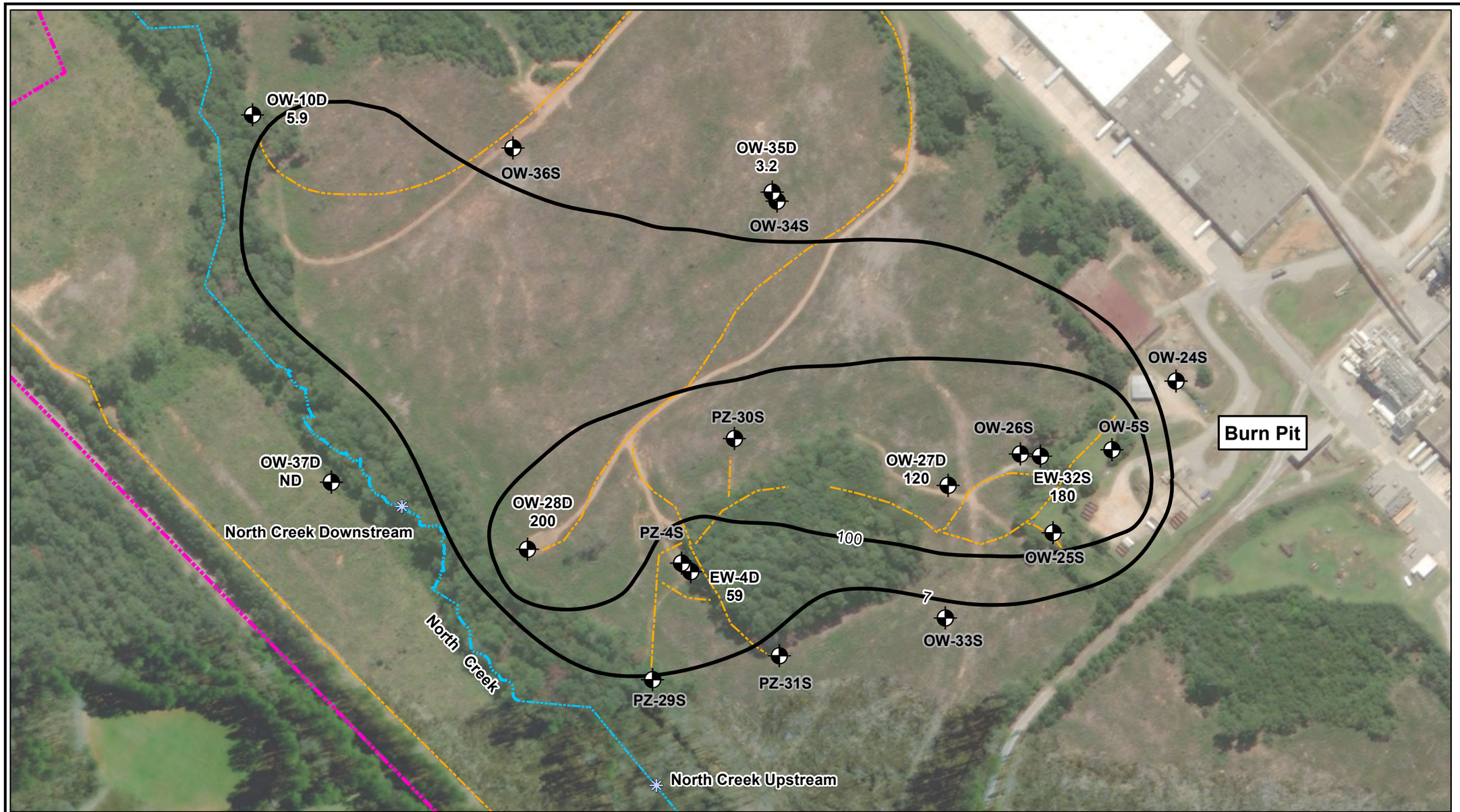
1,1- Dichloroethene Concentration Map
Former Burn Pit Area
(Shallow Aquifer) March 2020

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

26

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure 18 - Burn Pit Shallow DCE - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Deep DCE Concentration Contours
- Unpaved Roads
- Approximate Property Boundary
- Stream

Concentrations are presented in micrograms per liter (µg/L)

ND - Constituent not detected above laboratory detection limits

Shaded well IDs identify shallow wells not used for contouring

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 220 Feet

Approximate Scale

Revisions						
No.						
Date						

Designed By:	Drawn By:	Reviewed By:
GSC	GSC	DEM

Issue Date:	Project No:	Sheet Size:
07/24/2020	ASC7005.GW	11x17

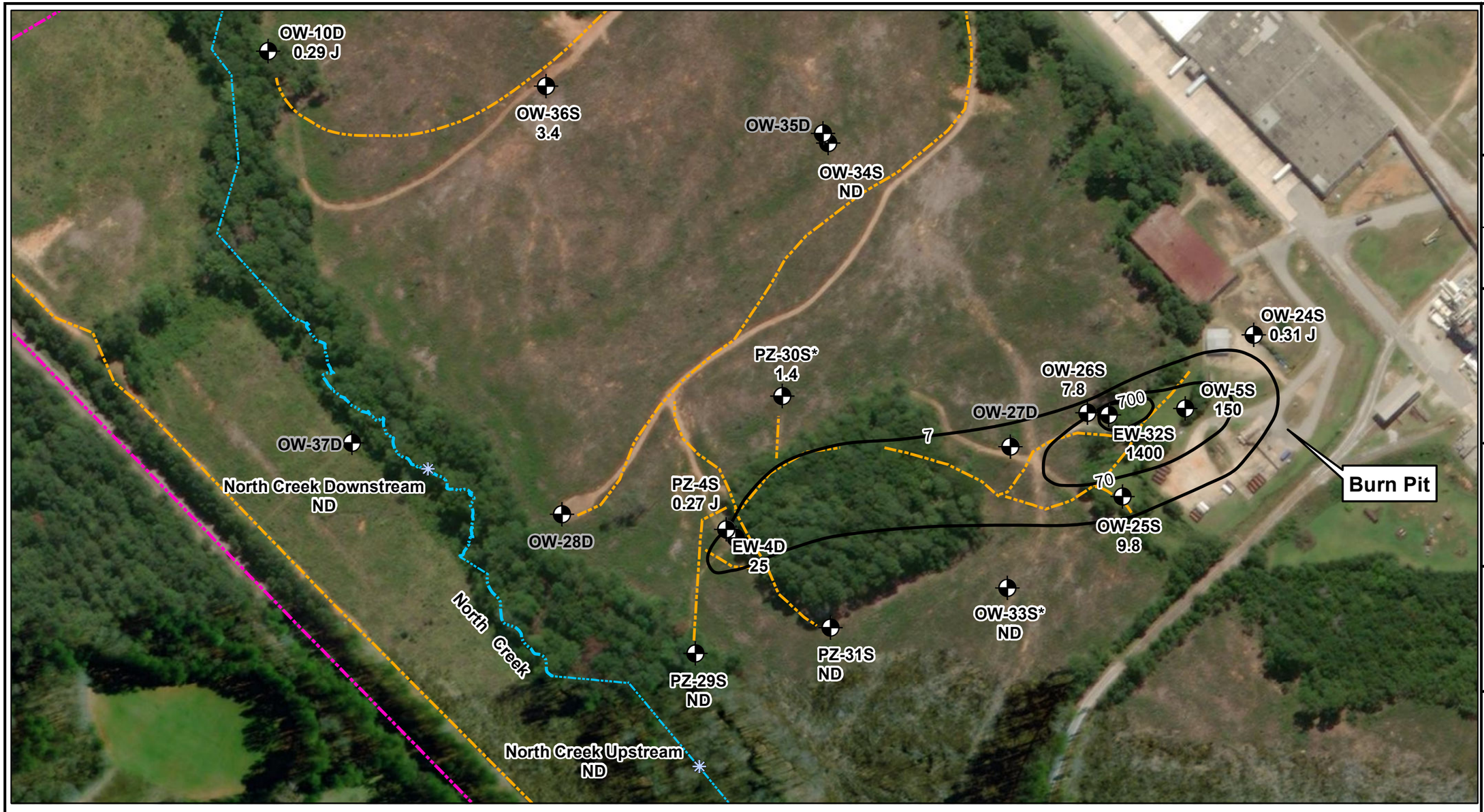
1,1- Dichloroethene Concentration Map
Former Burn Pit Area
(Deep Aquifer) March 2020

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

27

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure 19 - Burn Pit Deep DCE - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Shallow PCE Concentration Contours
- Unpaved Roads
- Stream
- Approximate Property Boundary

Concentrations are presented in micrograms per liter (µg/L)

Shaded well IDs identify deep wells not used for contouring

ND - Constituent not detected above laboratory detection limits

*** Indicates data is from March 2019 sampling event**

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 200 Feet

Approximate Scale

Revisions						
No.						
Date						

Designed By: SLM

Drawn By: SLM

Reviewed By: DEM

Issue Date: 10/16/2020

Project No: ASC7005.GW

Sheet Size: 11x17

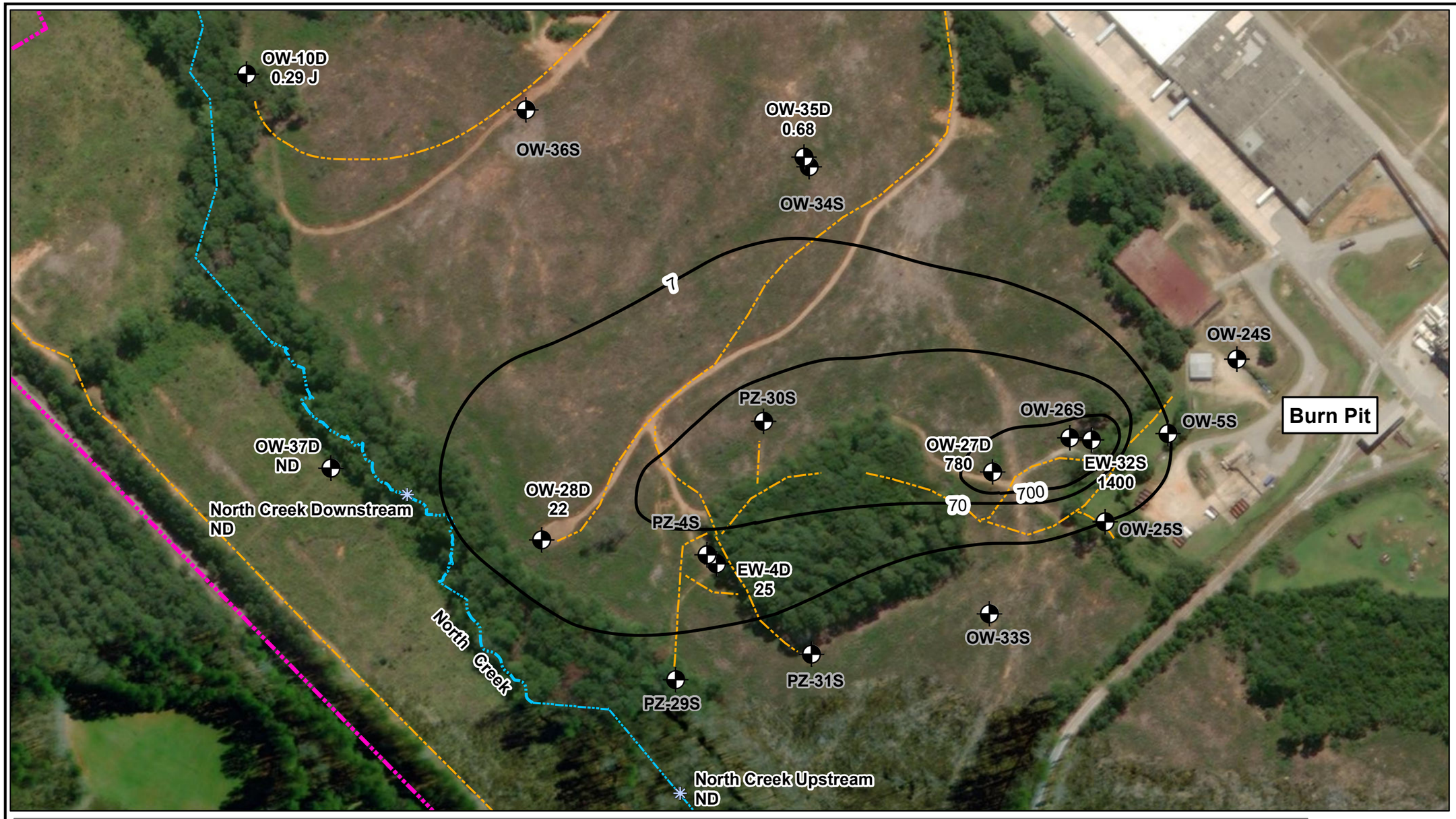
PCE Concentration Map
Former Burn Pit Area
(Shallow Aquifer)
March 2020

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

28

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure X - Burn Pit Shallow PCE - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Deep PCE Concentration Contours
- Unpaved Roads
- Approximate Property Boundary
- Stream

Concentrations are presented in micrograms per liter (µg/L)

ND - Constituent not detected above laboratory detection limits

Shaded well IDs identify shallow wells not used for contouring

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 200 Feet

Approximate Scale

Revisions	No.	Date

Designed By: SLM

Drawn By: SLM

Reviewed By: DEM

Issue Date: 10/16/2020

Project No: ASC7005.GW

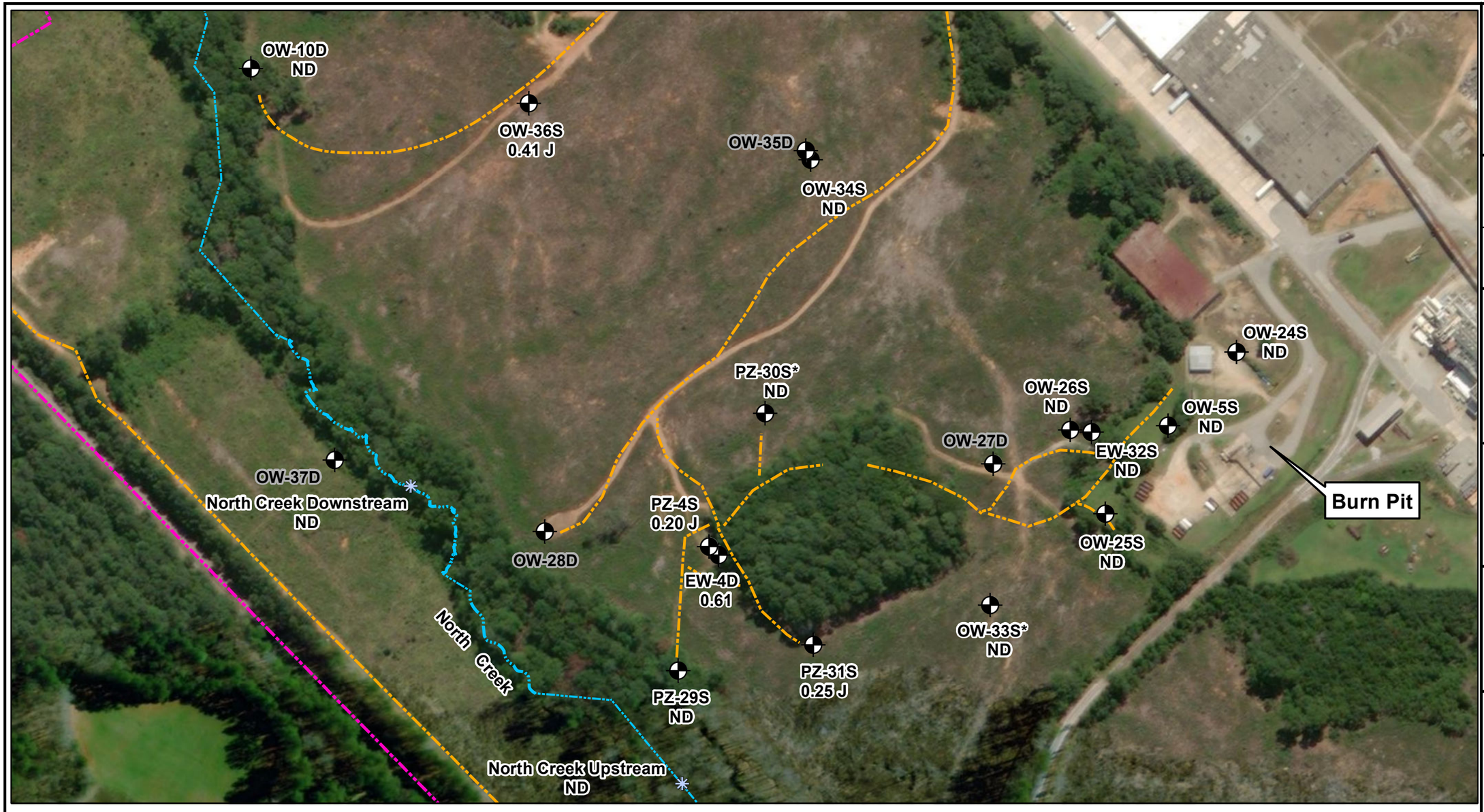
Sheet Size: 11x17

PCE
Concentration Map
Former Burn Pit Area
(Deep Aquifer)
March 2020
Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

29

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure X - Burn Pit Deep PCE - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Approximate Property Boundary
- Unpaved Roads
- Stream

Concentrations are presented in micrograms per liter (µg/L)

Shaded well IDs identify deep wells not used for contouring

ND - Constituent not detected above laboratory detection limits

*** Indicates data is from March 2019 sampling event**

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 200 Feet

Approximate Scale

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Date						

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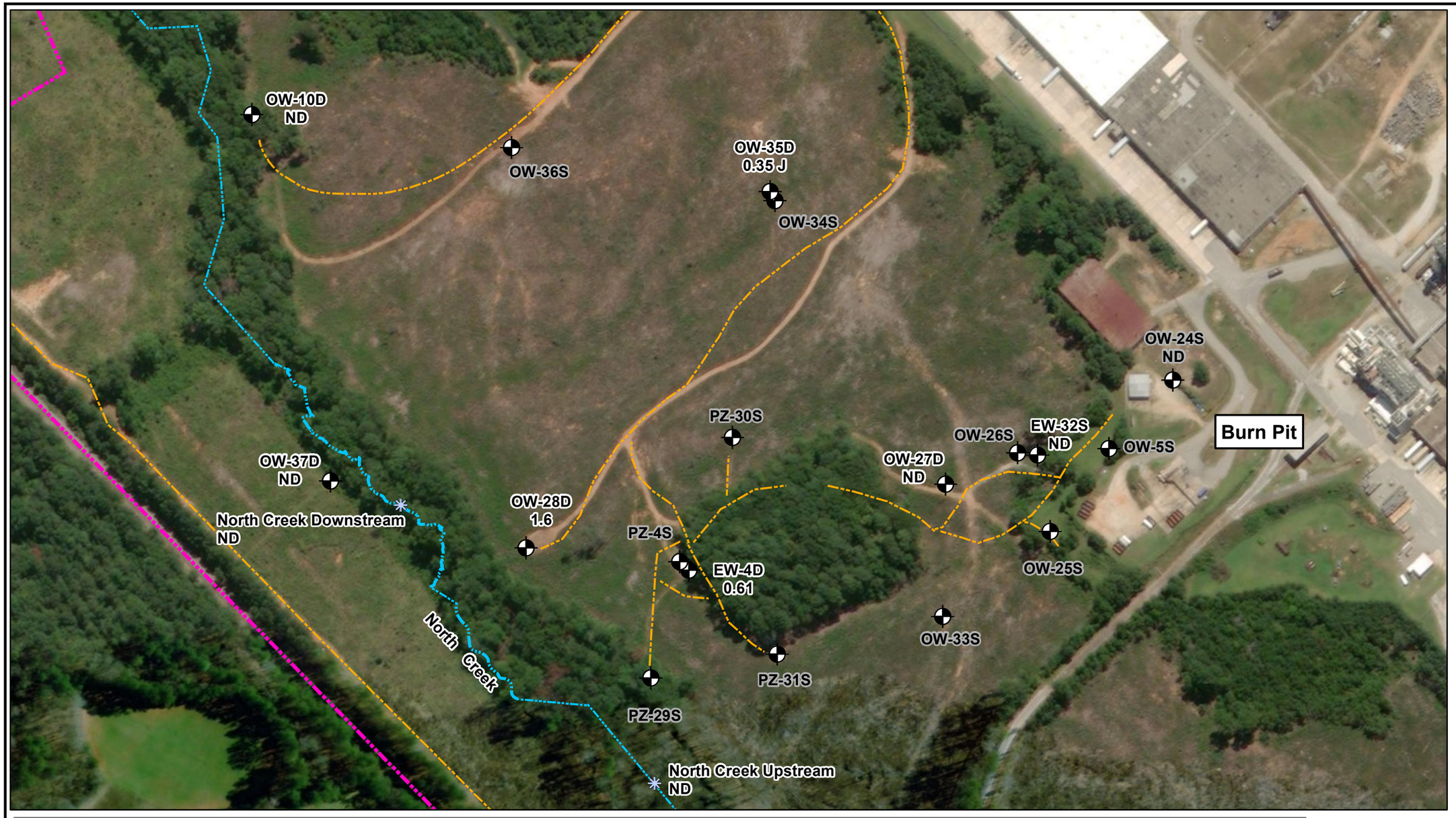
Issue Date:	Project No:	Sheet Size:
10/16/2020	ASC7005.GW	11x17

1,2-DCA Concentration Map
Former Burn Pit Area
(Shallow Aquifer)
March 2020
Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

30

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure X - Burn Pit Shallow DCA - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Stream
- Unpaved Roads
- Approximate Property Boundary

Concentrations are presented in micrograms per liter (µg/L)

ND - Constituent not detected above laboratory detection limits

Shaded well IDs identify shallow wells not used for contouring

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 210 Feet

Approximate Scale

Revisions						
No.	Date					

Designed By:	Drawn By:	Reviewed By:
SLM	SLM	DEM

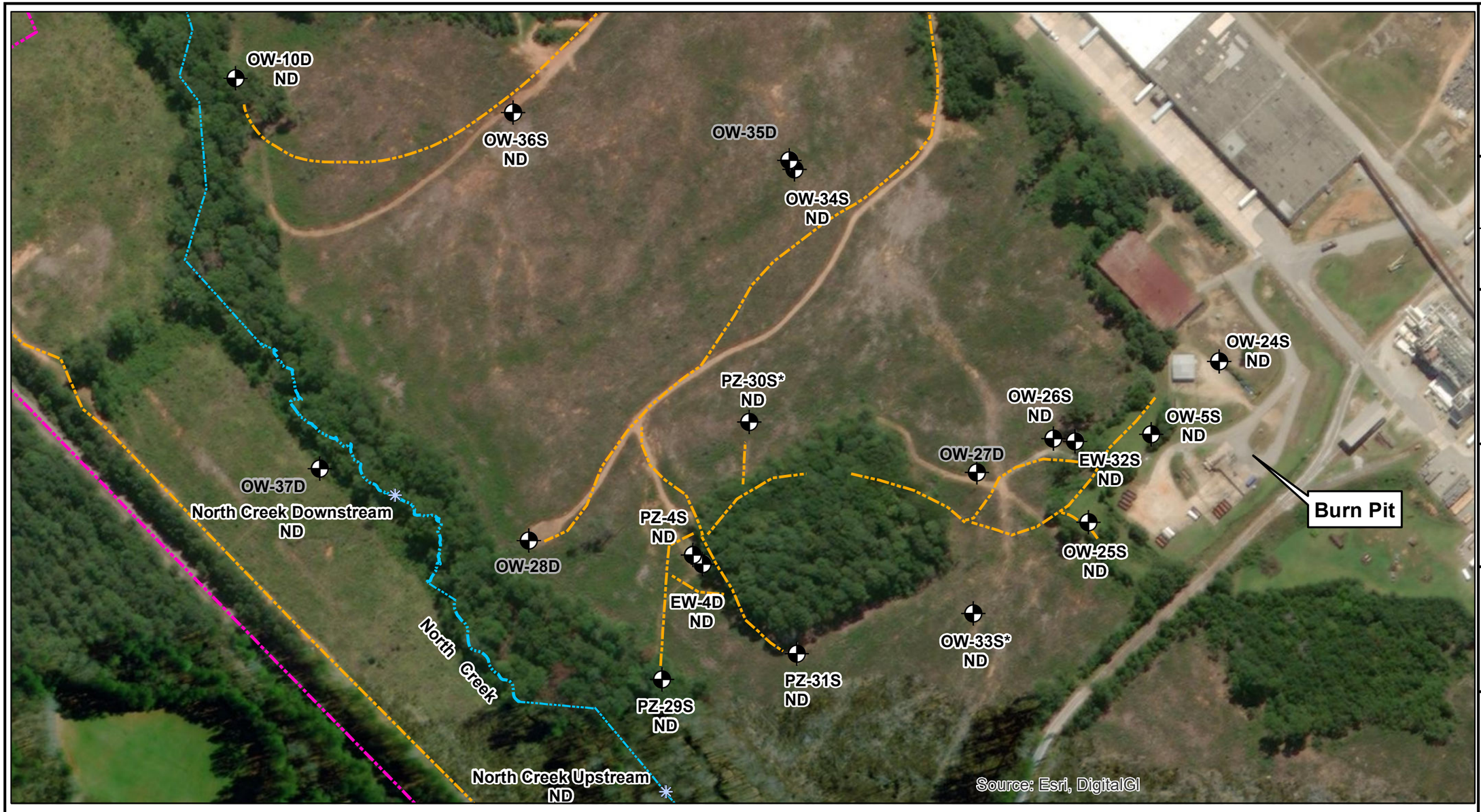
Issue Date:	Project No:	Sheet Size:
10/16/2020	ASC7005.GW	11x17

1,2-DCA
Concentration Map
Former Burn Pit Area
(Deep Aquifer)
March 2020
Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

31

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure X - Burn Pit Deep DCA - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Approximate Property Boundary
- Unpaved Roads
- Stream

Concentrations are presented in micrograms per liter (µg/L)

Shaded well IDs identify deep wells not used for contouring

ND - Constituent not detected above laboratory detection limits

*** Indicates data is from March 2019 sampling event**

HRP
MOVE YOUR ENVIRONMENT FORWARD
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SUITE D
GREENVILLE, SC 29607
(864) 289-0311
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North

0 200 Feet

Approximate Scale

Revisions						
No.						
Date						

Designed By:	Drawn By:	Reviewed By:
SLM	SLM	DEM

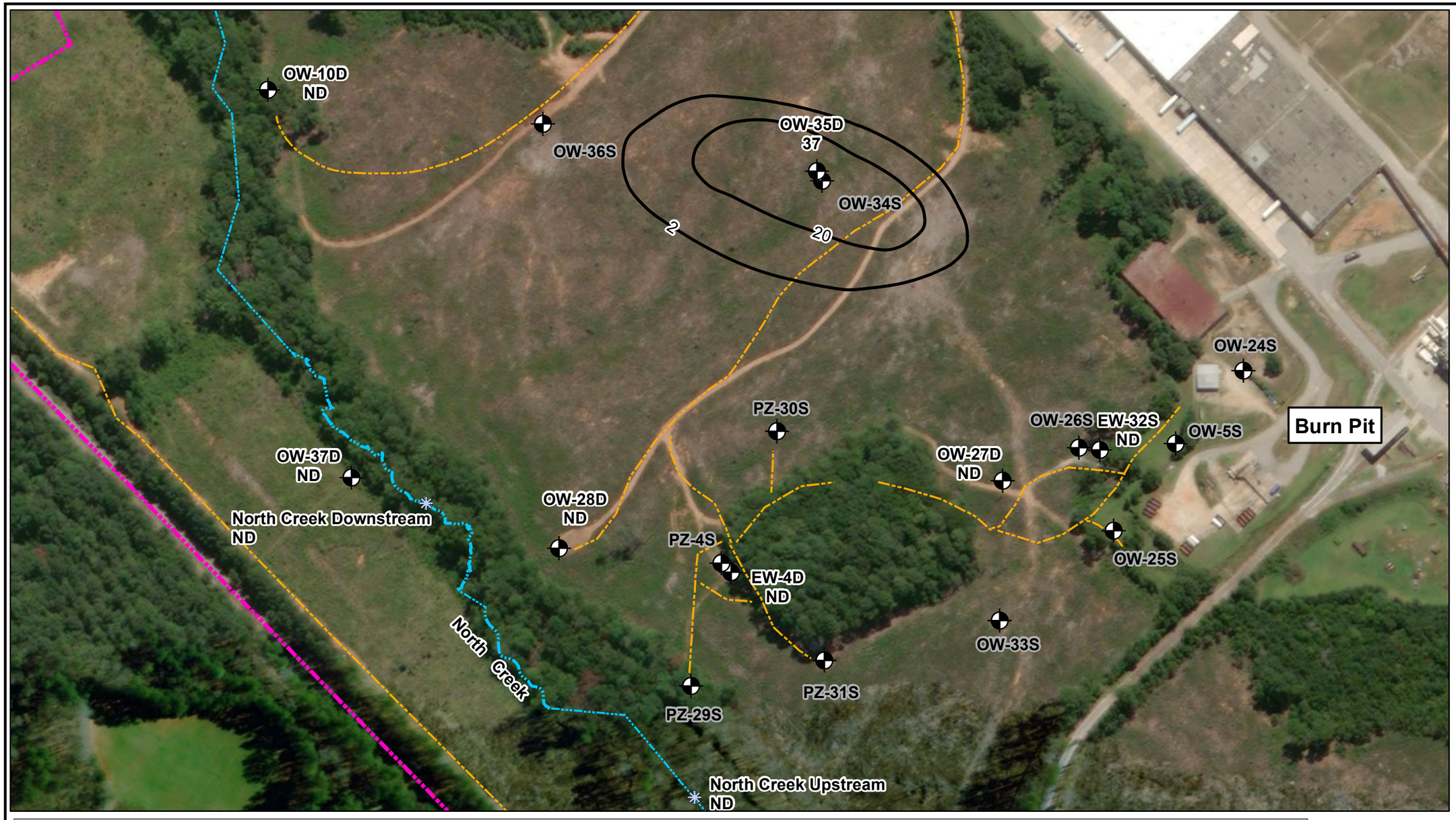
Issue Date:	Project No:	Sheet Size:
10/16/2020	ASC7005.GW	11x17

Vinyl Chloride Concentration Map
Former Burn Pit Area
(Shallow Aquifer)
March 2020
Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

32

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure X - Burn Pit Shallow VC - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Deep Vinyl Chloride Concentration Contours
- Unpaved Roads
- Approximate Property Boundary
- Stream

Concentrations are presented in micrograms per liter (µg/L)

ND - Constituent not detected above laboratory detection limits

Shaded well IDs identify shallow wells not used for contouring

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 200
Feet
Approximate Scale

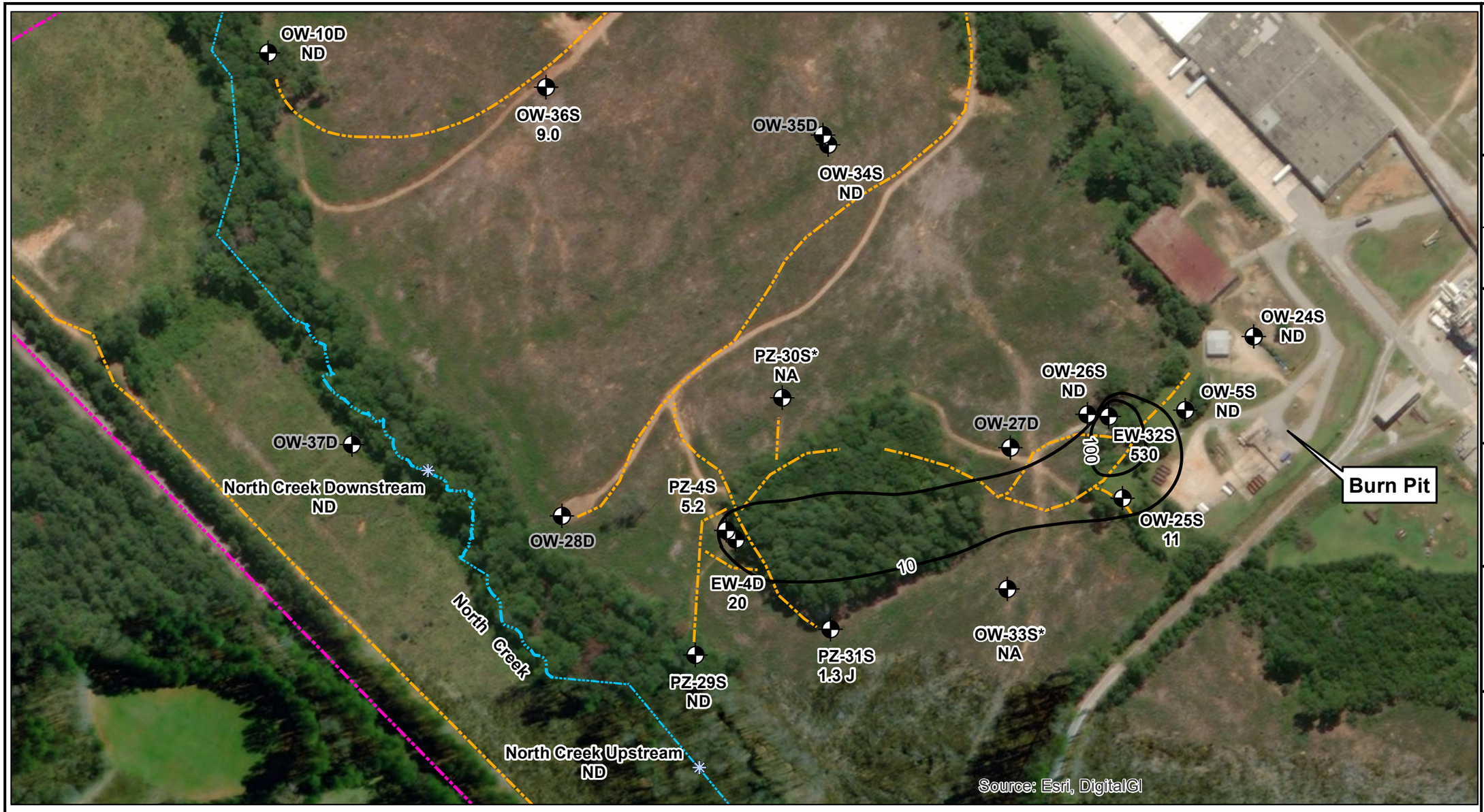
Revisions					
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Date					

Designed By: SLM	Drawn By: SLM	Reviewed By: DEM
Issue Date: 10/16/2020	Project No: ASC7005.GW	Sheet Size: 11x17

Vinyl Chloride Concentration Map
Former Burn Pit Area
(Deep Aquifer)
March 2020
Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.
33

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure X - Burn Pit Deep VC - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Shallow 1,4-Dioxane Concentration Contours
- Unpaved Roads
- Stream
- Approximate Property Boundary

Concentrations are presented in micrograms per liter (µg/L)

Shaded well IDs identify deep wells not used for contouring

NA - Constituent not analyzed in most recent sample

ND - Constituent not detected above laboratory detection limits

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 200 Feet

Approximate Scale

Revisions						
No.						
Date						

Designed By:	Drawn By:	Reviewed By:
SLM	SLM	DEM

Issue Date:	Project No:	Sheet Size:
10/16/2020	ASC7005.GW	11x17

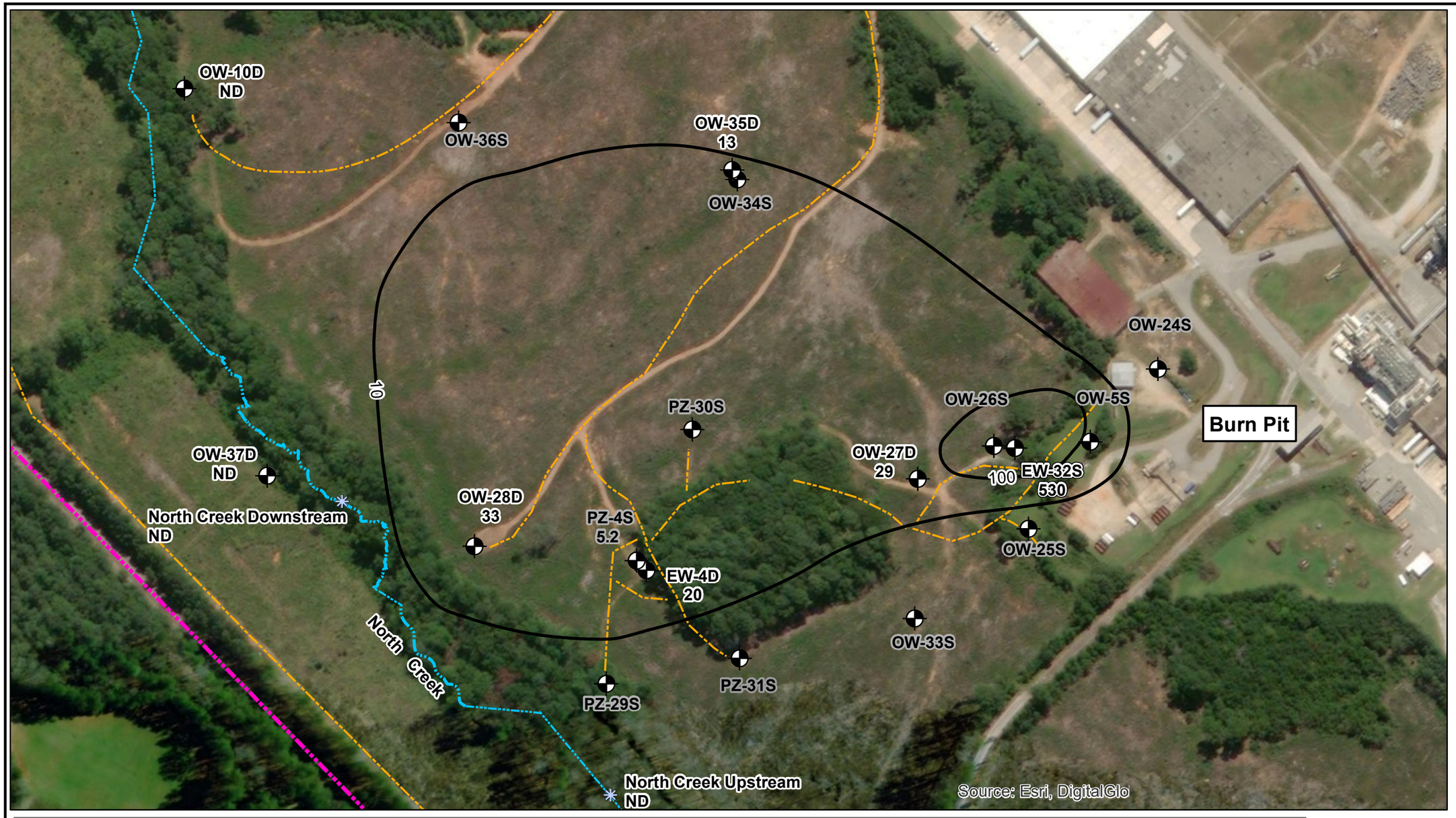
1,4-Dioxane Concentration Map
Former Burn Pit Area
(Shallow Aquifer)
March 2020

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

34

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure X - Burn Pit Shallow 1 4 Dioxane - March 2020.mxd



Legend

- Monitoring Wells
- Surface Water Monitoring Location (Approximate)
- Deep 1,4-Dioxane Concentration Contours
- Unpaved Roads
- Approximate Property Boundary
- Stream

Concentrations are presented in micrograms per liter (µg/L)

ND - Constituent not detected above laboratory detection limits

Shaded well IDs identify shallow wells whos concentrations were not used for contouring

HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 200 Feet

Approximate Scale

Revisions						
No.						
Date						

Designed By:	Drawn By:	Reviewed By:
SLM	SLM	DEM

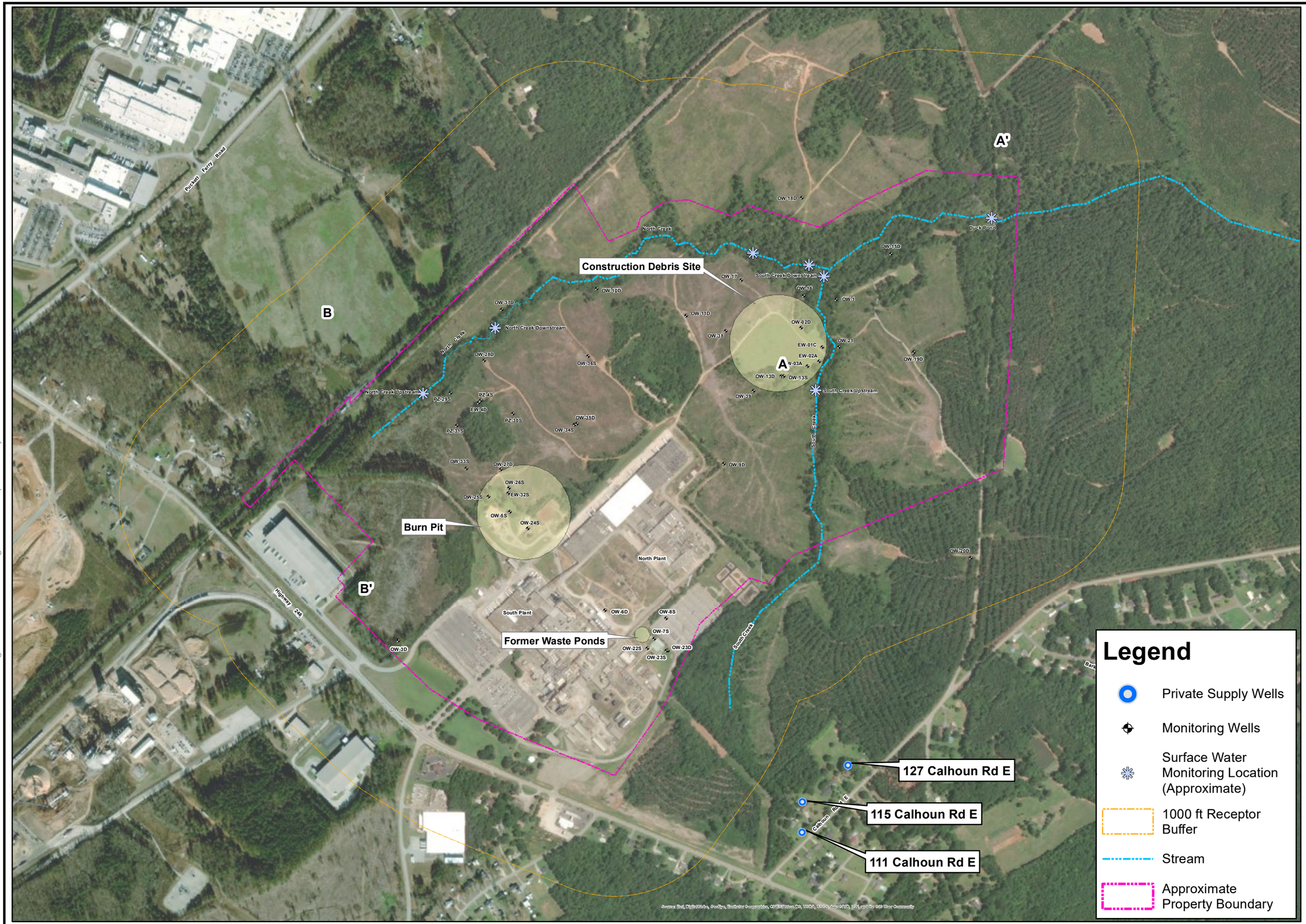
Issue Date:	Project No:	Sheet Size:
10/16/2020	ASC7005.GW	11x17

1,4-Dioxane Concentration Map
Former Burn Pit Area
(Deep Aquifer)
March 2020
Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

35

Path: C:\GIS\Ascend Performance Materials\GW Monitoring & RI - March 2020\Figure X - Burn Pit Deep 1 4 Dioxane - March 2020.mxd



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10/21/2020	ASC7005.GW	11x17

Receptor Survey

Ascend Performance Materials
1515 Highway 246 S
Greenwood, South Carolina

FIGURE NO.

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TABLE

TABLE 1
Well Construction Summary
Ascend Performance Materials Operations - Greenwood, South Carolina

WELL ID	LOCATION	WELL TYPE	WELL DEPTH (ft bgs)	WELL DIAMETER (in)	TOP OF SCREENED INTERVAL (ft bgs)	BOTTOM OF SCREENED INTERVAL (ft bgs)	GEOLOGY OF SCREENED INTERVAL	TOP OF CASING ELEVATION (ft > MSL)	DEPTH TO ROCK (ft bgs)	WELL MATERIAL	OPEN HOLE?	COMPLETION DATE
OW-5S	BP	Observation Well	40	2	20	24	Saprolite	547.19	NE	PVC	N	4/25/1984
OW-24S	BP	Observation Well	37.7	2	24.8	34.4	Saprolite/Weathered Bedrock	555.79	NE	PVC	N	4/17/1985
OW-25S	BP	Observation Well	34.2	2	22.4	32	Saprolite	541.89	NE	PVC	N	4/23/1985
OW-26S	BP	Observation Well	34.4	2	17.4	31.8	Saprolite	540.38	NE	PVC	N	4/18/1985
OW-27D	BP	Observation Well	83	5	70	83	Bedrock	535.16	70	PVC	Y	5/1/1985
OW-28D	BP	Observation Well	113	5	81	113	Bedrock	498.96	81	PVC	Y	4/27/1985
OW-33S	BP	Observation Well	35	2	24	34	Saprolite	533.35	NE	PVC	N	12/11/2017
OW-34S	BP	Observation Well	43	2	33	43	Saprolite	533.78	NE	PVC	N	12/12/2017
OW-35D	BP	Observation Well	74	2	64	74	Saprolite	534.01	NE	PVC	N	12/13/2017
OW-36S	BP	Observation Well	59	2	49	59	Saprolite	539.76	NE	PVC	N	12/14/2017
OW-37D	BP	Observation Well	76.5	2	66	76	Saprolite	505.20	NE	PVC	N	12/15/2017
EW-4D	BP	Extraction Well	75	2	--	--	Saprolite & Bedrock	510.07	--	Unknown	--	Unknown
EW-32S	BP	Extraction Well	45*	2	39	59	Saprolite	539.12	NE	PVC	N	12/21/1995
PZ-4S	BP	Piezometer	59	2	46	56	Saprolite	510.91	NE	PVC	N	5/20/1992
PZ-29S	BP	Piezometer	56.9	2	44	54	Saprolite	497.48	NE	PVC	N	5/21/1992
PZ-30S	BP	Piezometer	56.8	2	44	54	Saprolite	513.08	NE	PVC	N	5/22/1992
PZ-31S	BP	Piezometer	57.4	2	44	54	Saprolite	511.04	NE	PVC	N	5/26/1992
OW-1	CDS	Observation Well	102.3	6	50	100	Bedrock	473.29	~50	Unknown	Y	12/6/1983
OW-2D	CDS	Observation Well	62.2	6	50	100	Bedrock	501.03	~50	Unknown	Y	12/6/1983
OW-13S	CDS	Observation Well	40*	--	20*	24*	Bedrock*	496.58	7*	Unknown	--	Unknown
OW-13D	CDS	Observation Well	81.9	4	37.5*	47.5*	Bedrock*	496.99	7*	Unknown	--	Unknown
OW-15D	CDS	Observation Well	61*	6	36*	61*	--	468.05	--	Steel	Y	Unknown
OW-16	CDS	Observation Well	82.3	6	--	--	Bedrock	492.34	--	Unknown	--	Unknown
OW-17	CDS	Observation Well	64.7	6	--	--	Bedrock	493.30	--	Unknown	--	Unknown
OW- 19D	CDS	Observation Well	63	6	--	--	--	513.19	--	Steel	--	Unknown
OW-21	CDS	Observation Well	62.5	6	--	--	Bedrock	472.95	5*	Unknown	Y*	Unknown
OW-38	CDS	Observation Well	38	2	28	38	Saprolite	517.61	--	PVC	N	3/4/2019
OW-39	CDS	Observation Well	26	2	16	26	Saprolite	517.60	--	PVC	N	3/4/2019
EW-1C	CDS	Extraction Well	48	4	25	40	Saprolite	483.85	48	Steel	N	9/27/2017
EW-2A	CDS	Extraction Well	102	6	--	--	Saprolite & Bedrock	479.93	--	Unknown	--	Unknown
EW-3B	CDS	Extraction Well	52	4	27	52	Saprolite & Bedrock	pending	50	Steel	N	4/9/2018
OW-6D	WP	Observation Well	123	4	110	120	Weathered Bedrock	572.36	NE	PVC	N	4/26/1984
OW-7S	WP	Observation Well	25	2	18	22	Saprolite	553.74	NE	PVC	N	4/26/1984
OW-8S	WP	Observation Well	25	2	17	21	Saprolite	542.23	NE	PVC	N	4/26/1984
OW-22S	WP	Observation Well	32.5	2	22.7	32.5	Saprolite	560.16	NE	PVC	N	4/2/1985
OW-23S	WP	Observation Well	34.7	2	25.1	34.7	Saprolite	544.30	NE	PVC	N	4/12/1985
OW-23D	WP	Observation Well	118.3	4	99	118.3	Weathered Bedrock	543.50	NE	PVC	N	4/10/1985
OW-3D	Perimeter	Observation Well	100	6	93	100	Bedrock	560.71	93	PVC	y	6/7/1984
OW-9D	Perimeter	Observation Well	111.5	4	101.5	111.5	Weathered Bedrock	558.42	98	PVC	N	4/24/1984
OW-10D	Perimeter	Observation Well	42	6	14	42	Bedrock	484.46	14	PVC	Y	6/1/1984
OW-11D	Perimeter	Observation Well	63	6	41	63	Bedrock	541.19	41	PVC	Y	4/2/1984
OW-18D	Perimeter	Observation Well	68	6 to 4	58	68	Weathered Bedrock	490.44	NE	PVC	N	5/2/1984
OW-20D	Off-site	Observation Well	81	6	65	81	Bedrock	566.72	65	PVC	Y	5/30/1984

Note: *Data from Duncan-Parnell figure dated 1985.

TABLE 2
Groundwater Field Screening Results - Former Burn Pit Area
Ascend Performance Materials Operations - Greenwood, SC

ID	Depth (ft bgs)	Color-Tec Tube Reading (unit-less)	Median Expected GC/MS Concentration (µg/L)
CT-1	30	ND	na
CT-2	40	ND	na
CT-3	45	ND	na
CT-3D	69	ND	na
CT-4	45	ND	na
CTC-4*	45	na	na
CT-5	45	2.5	660
CT-6	40	ND	na
CT-7	40	0.5	110
CT-8	40	0.5	35
CT-9	35	0.5	110
CT-10	35	0.2	15
CT-11	25	0.9	190
CT-12	20	1.9	400
CT-13	40	ND	na
CT-14	45	ND	na
CT-15	45	ND	na
CTC-15*	45	na	na
CT-16	40	ND	na
CTC-16*	52	na	na
CT-17*	20	ND	na
CT-18	20	ND	na
CT-19*	15	ND	na
CT-20	20	ND	na

*Confirmation sample collected
ND = Not Detected
na = not applicable

TABLE 3
Analytical Results - Former Burn Pit Area
(Colortec Confirmation Samples)
Ascend Performance Materials Operations - Greenwood, SC

Parameter	MCL	CTC-4	CTC-15	CTC-16	CT-17	CTC-19
Acetone	NE	12.9 J	10.8 J	10.0 J	<10.0	<10.0
Chloroform	80*	0.84 J	<0.14	<0.14	**3.5**	<0.14
1,1-DCA	NE	<0.32	0.92 J	0.72 J	<0.32	<0.32
1,2-DCA	5	0.26 J	<0.24	0.40 J	<0.24	<0.24
1,1-DCE	7	**3.0**	**6.2**	**13.7**	**4.8**	<0.56
cis-1,2-DCE	70	<0.19	**1.1**	**4.7**	<0.19	<0.19
PCE	5	**1.0**	<0.46	**4.0**	0.55 J	<0.46
TCE	5	**5.3**	**6.2**	**10**	**5.7**	<0.47
TCFM	NE	<0.20	<0.20	<0.20	**1.7**	<0.20

NOTES:
Units are ug/L
Bold font indicates parameter present above detection limit
Shaded cell indicates MCL exceedance
MCL = Maximum Contaminant Level
*Total Trihalomethanes
NE = Not Established

TABLE 4

SUMMARY OF PSG ANALYTICAL RESULTS

Ascend Performance Materials Operations - Greenwood, SC

Sample Name	1,1,1-TCA	1,1-DCA	1,1-DCE	Chloroform	cis-1,2-DCE	PCE	TCE	Vinyl Chloride
SG-02	<10	<10	**184**	<10	<10	**235**	**45**	<10
SG-03	<10	<10	**19**	<10	<10	**17**	<10	<10
SG-04	<10	<10	**21**	<10	<10	**42**	<10	<10
SG-05	<10	**11**	**71**	<10	<10	<10	**14**	**11**
SG-06	<10	<10	**30**	<10	<10	**12**	**11**	<10
SG-07	<10	<10	**21**	<10	<10	**17**	<10	<10
SG-10	<10	<10	**12**	<10	<10	<10	<10	<10
SG-12	**10**	**11**	**49**	<10	<10	<10	<10	<10
SG-15	<10	<10	**99**	<10	<10	**56**	**14**	<10
SG-18	<10	<10	**47**	<10	<10	**36**	**11**	<10
SG-19	<10	**57**	**171**	<10	<10	**61**	**157**	<10
SG-20	**256**	**68**	**2290**	<10	**12**	**1820**	**3880**	**22**
SG-21	<10	<10	<10	<10	<10	**10**	<10	<10
SG-22	<10	<10	**28**	<10	<10	**46**	**21**	<10
SG-23	<10	<10	**16**	<10	<10	**36**	**15**	<10
SG-25	<10	<10	<10	<10	<10	**19**	<10	<10
SG-29	<10	<10	<10	<10	<10	**11**	<10	<10
SG-30	<10	<10	<10	<10	<10	**12**	<10	<10
SG-31	<10	<10	<10	**31**	<10	**12**	<10	<10
SG-33	<10	<10	<10	**68**	<10	<10	<10	<10
SG-34	<10	<10	<10	**464**	<10	<10	<10	<10
SG-35	<10	<10	<10	**409**	<10	<10	<10	<10
SG-37	<10	<10	<10	**32**	<10	<10	<10	<10
SG-38	<10	<10	<10	**25**	<10	<10	<10	<10
SG-39	**75**	<10	**33**	<10	<10	**200**	**111**	<10
SG-40	**128**	<10	**386**	<10	<10	**569**	**2060**	<10
SG-47	<10	<10	<10	**162**	<10	<10	<10	<10

TABLE 5
Groundwater Field Screening Results - CDS
Ascend Performance Materials Operations - Greenwood, South Carolina

Sample ID:	Depth (ft bgs)	Color-Tec Tube Reading (unit-less)	Purge Volume Correlation Factor	Median Expected GC/MS Concentration (µg/L)
CT-CDS-1	45	1.5	3	342.5
CT-CDS-2*	45	0.0	0.5	< 3
CT-CDS-2D*	65	0.0	0.5	< 3
CT-CDS-3*	12	0.0	0.5	< 3
CTC-CDS-3D*	30	0.0	0.5	< 3

*Confirmation sample collected
ND = Not Detected
ft bgs - feet below ground surface

TABLE 6
Analytical Results - CDS
(Colortec Confirmation Samples)

Ascend Performance Materials Operations - Greenwood, South Carolina

Parameter	MCL	CT-CDS-2	CT-CDS-2D	CT-CDS-3	CT-CDS-3D
Acetone	NE	18.0 J	12.4 J	<25.0	<25.0
2-Butanone (MEK)	NE	2.5 J	1.3 J	<5.0	1.2 J
1,1-DCE	7	<1.0	**1.5**	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	NE	2.1 J	1.3 J	3.8 J	2.7 J
Toluene	1,000	0.63 J	0.76 J	<1.0	0.65 J

NOTES:
Units are ug/L
Bold font indicates parameter present above detection limit
Shaded cell indicates MCL exceedance
MCL = Maximum Contaminant Level
NE = Not Established

TABLE 7

Summary of PDB Vertical Profile Sampling Results

Ascend Performance Materials - Greenwood, South Carolina

OW-1

Depth	Total VOCs	Parameter/Concentration		MCL
55	22.3	1,1-Dichloroethane	3.8	NE
		1,1-Dichloroethylene	10	7
		cis-1,2-Dichloroethylene	0.47	70
		Trichloroethylene	2.2	5
		1,4-Dioxane	5.8	NE
65	41.6	1,1-Dichloroethane	7	NE
		1,1-Dichloroethylene	5.6	7
		Acetone	12	NE
		cis-1,2-Dichloroethylene	0.27	70
		Trichloroethylene	1.1	5
		Vinyl chloride	7.9	2
		1,4-Dioxane	7.7	NE
75	56.5	1,1-Dichloroethane	14	NE
		1,1-Dichloroethylene	0.51	7
		1,2-Dichloroethane	0.34	5
		Acetone	4.6	NE
		Vinyl chloride	20	2
		1,4-Dioxane	17	NE
85	48.5	1,1-Dichloroethane	12	NE
		1,1-Dichloroethylene	0.47	7
		Vinyl chloride	16	2
		1,4-Dioxane	20	NE
95	46.9	1,1-Dichloroethane	11	NE
		1,1-Dichloroethylene	0.6	7
		1,2-Dichloroethane	0.3	5
		Vinyl chloride	15	2
		1,4-Dioxane	20	NE

Notes: concentrations are in ug/L
shaded cell indicates exceedance of MCL
only parameters that were detected are included in table

TABLE 7

Summary of PDB Vertical Profile Sampling Results

Ascend Performance Materials - Greenwood, South Carolina

OW-10D

Depth	Total VOCs	Parameter/Concentration		MCL
19	12.9	1,1-Dichloroethylene	5.9	7
		Dichlorodifluoromethane	0.82	NE
		Tetrachloroethylene	0.29	5
		Trichloroethylene	5.9	5
28	13.0	1,1-Dichloroethylene	6	7
		Dichlorodifluoromethane	0.88	NE
		Tetrachloroethylene	0.29	5
		Trichloroethylene	5.8	5
37	12.7	1,1-Dichloroethylene	6	7
		Dichlorodifluoromethane	0.84	NE
		Tetrachloroethylene	0.27	5
		Trichloroethylene	5.6	5

Notes: concentrations are in ug/L
shaded cell indicates exceedance of MCL
only parameters that were detected are included in table

TABLE 7

Summary of PDB Vertical Profile Sampling Results

Ascend Performance Materials - Greenwood, South Carolina

OW-16

Depth	Total VOCs	Parameter/Concentration		MCL
63	292.4	1,1-Dichloroethane	59	NE
		1,1-Dichloroethylene	81	7
		1,2-Dichloroethane	0.82	5
		Carbon Tetrachloride	4.9	5
		Chloroform	4.6	80
		cis-1,2-Dichloroethylene	4.7	70
		Tetrachloroethylene	0.34	5
		Trichloroethylene	76	5
		1,4-Dioxane	61	NE
74	238.0	1,1-Dichloroethane	46	NE
		1,1-Dichloroethylene	60	7
		1,2-Dichloroethane	0.67	5
		Carbon Tetrachloride	3.8	5
		Chloroform	3.6	80
		cis-1,2-Dichloroethylene	3.6	70
		Tetrachloroethylene	0.28	5
		Trichloroethylene	59	5
		1,4-Dioxane	61	NE

Notes: concentrations are in ug/L
shaded cell indicates exceedance of MCL
only parameters that were detected are included in table

TABLE 7

Summary of PDB Vertical Profile Sampling Results

Ascend Performance Materials - Greenwood, South Carolina

OW-17

Depth	Total VOCs	Parameter/Concentration		MCL
23	56.8	1,1-Dichloroethane	1.1	NE
		1,1-Dichloroethylene	16	7
		Carbon Tetrachloride	9.3	5
		Chloroform	6.4	80
		Tetrachloroethylene	0.59	5
		Trichloroethylene	19	5
		1,4-Dioxane	4.4	NE
34	54.8	1,1-Dichloroethane	1	NE
		1,1-Dichloroethylene	16	7
		Carbon Tetrachloride	8.9	5
		Chloroform	6.5	80
		Tetrachloroethylene	0.49	5
		Trichloroethylene	18	5
		1,4-Dioxane	3.9	NE
46	55.9	1,1-Dichloroethane	1.2	NE
		1,1-Dichloroethylene	17	7
		Carbon Tetrachloride	7.9	5
		Chloroform	8.2	80
		Tetrachloroethylene	0.45	5
		Trichloroethylene	17	5
		1,4-Dioxane	4.1	NE
57	62.3	1,1-Dichloroethane	1.3	NE
		1,1-Dichloroethylene	19	7
		Carbon Tetrachloride	9	5
		Chloroform	8.6	80
		Tetrachloroethylene	0.52	5
		Trichloroethylene	20	5
		1,4-Dioxane	3.9	NE

Notes: concentrations are in ug/L
shaded cell indicates exceedance of MCL
only parameters that were detected are included in table

TABLE 7

Summary of PDB Vertical Profile Sampling Results

Ascend Performance Materials - Greenwood, South Carolina

OW-28D

Depth	Total VOCs	Parameter/Concentration		MCL
87	547.4	1,1-Dichloroethane	3.3	NE
		1,1-Dichloroethylene	200	7
		1,2-Dichloroethane	1.6	5
		Carbon Tetrachloride	0.45	5
		Chloroform	37	80
		Tetrachloroethylene	22	5
		Trichloroethylene	250	5
		1,4-Dioxane	33	NE
98	447.1	1,1-Dichloroethane	3.1	NE
		1,1-Dichloroethylene	160	7
		1,2-Dichloroethane	1.6	5
		Carbon Tetrachloride	0.4	5
		Chloroform	39	80
		Tetrachloroethylene	19	5
		Trichloroethylene	190	5
		1,4-Dioxane	34	NE
108	501.8	1,1,1-Trichloroethane	0.25	200
		1,1-Dichloroethane	3.9	NE
		1,1-Dichloroethylene	170	7
		1,2-Dichloroethane	1.8	5
		Carbon Tetrachloride	0.63	5
		Chloroform	51	80
		Methylene Chloride	0.24	5
		Tetrachloroethylene	24	5
		Trichloroethylene	210	5
		1,4-Dioxane	40	NE

Notes: concentrations are in ug/L
shaded cell indicates exceedance of MCL
only parameters that were detected are included in table

TABLE 8
Groundwater Elevations - March 9, 2020
Ascend Performance Materials Operations - Greenwood, South Carolina

LOCATION	MEASURING POINT ELEVATION [1] (feet AMSL)	DEPTH TO WATER (feet BMP)	WATER ELEVATION (feet AMSL)
CDS			
OW-1	473.29	7.95	465.34
OW-2D	501.03	29.42	471.61
OW-13S	496.58	15.62	480.96
OW-13D	496.99	17.80	479.19
OW-15D	468.05	3.88	464.17
OW-16	492.34	28.05	464.29
OW-17	493.30	11.89	481.41
OW-19D	513.19	18.15	495.04
OW-21	472.95	5.15	467.80
OW-38	517.61	26.35	491.26
OW-39	517.60	11.05	506.55
EW-1C*	483.85	16.70	467.15
EW-2A	479.93	9.86	470.07
EW-3B**	483.57	40.15	443.42
Burn Pit			
OW-5S	547.19	22.09	525.10
OW-24S	555.79	29.25	526.54
OW-25S	541.89	20.11	521.78
OW-26S	540.38	18.57	521.81
OW-27D	535.16	16.75	518.41
OW-28D	498.96	10.15	488.81
OW-33S	533.35	19.43	513.92
OW-34S	533.78	22.55	511.23
OW-35D	534.01	23.24	510.77
OW-36S	539.76	38.19	501.57
OW-37D	505.20	22.05	483.15
EW-4D	510.07	33.83	476.24
EW-32S	539.12	32.32	506.80
PZ-4S	510.91	27.00	483.91
PZ-29S	497.48	5.67	491.81
PZ-30S	513.08	7.92	505.16
PZ-31S	511.04	11.66	499.38

TABLE 8

Groundwater Elevations - March 9, 2020

Ascend Performance Materials Operations - Greenwood, South Carolina

LOCATION	MEASURING POINT ELEVATION [1] (feet AMSL)	DEPTH TO WATER (feet BMP)	WATER ELEVATION (feet AMSL)
Perimeter			
OW-3D	560.71	NM	NM
OW-9D	558.42	47.78	510.64
OW-10D	484.46	5.29	479.17
OW-11D	541.19	NM	NM
OW-18D	490.44	16.98	473.46
OW-20D	566.72	55.28	511.44

NOTES:

[1] Measuring point elevations surveyed April 2017 by Site Design, Greenville, SC

AMSL = above mean sea level

BMP = below measuring point

*Measuring point elevation used from nearby former well (EW-1B)

**Measuring point elevation used from nearby former well (EW-3A)

TABLE 9
Analytical Results - March 2020
Ascend Performance Materials Operations - Greenwood, South Carolina

CDS

Parameter	MCL	OW-1	OW-2D	OW-13D	OW-13S	OW-16	OW-17	OW-38*	OW-39*	EW-1C	EW-2A	EW-3B	South Creek Up	South Creek Down	Duck Pond	CDS Up	CDS Down
Carbon Tetrachloride	5	<0.11	<0.11	<1.1	<0.11	**4.9**	**9.0**	**3.7**	<0.11	<1.1	<1.1	<1.1	<0.11	<0.11	<0.11	<0.11	<0.11
Chloroform	80*	<0.076	**6.0**	**47**	**4.9**	**4.6**	**8.6**	**7.5**	<0.076	**5.2**	**4.4 J**	**4.9 J**	<0.076	<0.076	<0.076	**0.23 J**	**0.28 J**
1,1-Dichloroethane	NE	**3.8**	**120**	**22**	**68**	**59**	**1.3**	**0.30 J**	<0.083	**170**	**160**	**170**	<0.083	**0.67**	<0.083	<0.083	<0.083
1,2-Dichloroethane	5	<0.066	**2.8**	**6.8**	**0.86**	**0.82**	<0.066	<0.066	<0.066	**3.3 J**	**3.2 J**	**3.5 J**	<0.066	<0.066	<0.066	<0.066	<0.066
1,1-Dichloroethene	7	**10**	**260**	**1,800**	**93**	**81**	**19**	**0.72**	**0.41 J**	**320**	**310**	**330**	**0.24 J**	**1.4**	**0.27 J**	**0.36 J**	**0.39 J**
cis-1,2-Dichloroethene	70	**0.47 J**	**8.2**	**7.6**	**21**	**4.7**	<0.056	<0.056	<0.056	**24**	**20**	**19**	<0.056	<0.056	<0.056	<0.056	<0.056
1,4-Dioxane	NE	**5.8**	**21**	**330**	**21**	**61**	**3.9**	<0.14	<0.14	**150**	**150**	**170**	<0.14	**2.6**	**1.3 J**	<0.14	<0.14
Tetrachloroethene	5	<0.098	**1.2**	**2.2 J**	<0.098	**0.34 J**	**0.52**	<0.098	<0.098	<0.98	<0.98	<0.98	<0.098	<0.098	<0.098	<0.098	<0.098
1,1,1-Trichloroethane	200	<0.061	**2.1**	**3.1 J**	<0.061	<0.061	<0.061	<0.061	<0.061	**43**	**70**	**25**	<0.061	<0.061	<0.061	<0.061	<0.061
1,1,2-Trichloroethane	3	<0.066	**0.61**	**3.9 J**	**0.72**	<0.066	<0.066	<0.066	<0.066	<0.66	<0.66	<0.66	<0.066	<0.066	<0.066	<0.066	<0.066
Trichloroethene	5	**2.2**	**54**	**620**	**29**	**76**	**20**	<0.078	**0.37 J**	**71**	**71**	**68**	<0.078	**0.39 J**	**0.21 J**	**0.59**	**0.60**
Vinyl Chloride	2	<0.097	**0.57**	<0.97	**0.24 J**	<0.097	<0.097	<0.097	<0.097	**2.1 J**	**2.2 J**	**2.1 J**	<0.097	<0.097	<0.097	<0.097	<0.097
Total VOCs		22.3	476.5	2842.6	238.7	292.4	62.3	12.2	0.8	785.3	790.8	792.5	0.2	5.1	1.8	1.2	1.3

Burn Pit

Parameter	MCL	OW-5S	OW-10D	OW-24S	OW-25S	OW-26S	OW-27D	OW-28D	OW-34S	OW-35D	OW-36S	EW-4D	EW-32S	PZ-4S	PZ-29S	PZ-31S	North Creek Up	North Creek Down
Acetone	NE	<3.1	<0.31	**6.9**	**3.6 J**	<0.31	<3.1	<0.31	**3.3 J**	<0.31	<0.31	<0.31	<31	**2.9 J**	<0.31	**4.0 J**	<0.31	<0.31
Bromomethane	NE	<1.8	<0.18	<0.18	<0.18	<0.18	<1.8	<0.18	**0.20 J**	<0.18	<0.18	<0.18	<18	<0.18	<0.18	<0.18	<0.18	<0.18
Carbon Tetrachloride	5	<1.1	<0.11	<0.11	<0.11	<0.11	<1.1	**0.45 J**	<0.11	<0.11	<0.11	**1.5**	<11	<0.11	<0.11	<0.11	<0.11	<0.11
Chloroform	80*	<0.76	<0.076	**1.3**	**2.0**	**0.21 J**	**7.7**	**37**	<0.076	<0.076	**0.36 J**	**57**	<7.6	**0.21 J**	<0.076	<0.076	<0.076	<0.076
1,1-Dichloroethane	NE	<0.83	<0.083	<0.083	**2.3**	<0.083	<0.83	**3.3**	<0.083	**2.6**	**2.1**	**0.83**	<8.3	**0.50**	<0.083	<0.083	<0.083	<0.083
1,2-Dichloroethane	5	<0.66	<0.066	<0.066	<0.066	<0.066	<0.66	**1.6**	<0.066	**0.35 J**	**0.41 J**	**0.61**	<6.6	**0.20 J**	<0.066	**0.25 J**	<0.066	<0.066
1,1-Dichloroethene	7	**21**	**5.9**	<0.083	**18**	**0.81**	**120**	**200**	<0.083	**3.2**	**55**	**59**	**180**	**15**	**2.2**	**24**	**0.51**	**0.40 J**
cis-1,2-Dichloroethene	70	<0.56	<0.056	<0.056	**0.41 J**	<0.056	<0.56	<0.056	<0.056	**2.3**	**1.2**	**0.66**	<5.6	**0.25 J**	<0.056	**0.44 J**	<0.056	<0.056
Dichlorodifluoromethane	NE	<1.1	**0.82 J**	<0.11	<0.11	<0.11	<1.1	<0.11	<0.11	<0.11	<0.11	<0.11	<11	<0.11	<0.11	<0.11	<0.11	<0.11
1,4-Dioxane	NE	<0.14	<0.14	<0.14	**11**	<0.14	**29**	**33**	<0.14	**13**	**9.0**	**20**	**530**	**5.2**	<0.14	**1.3 J**	<0.14	<0.14
Tetrachloroethene	5	**150**	**0.29 J**	**0.31 J**	**9.8**	**7.8**	**780**	**22**	<0.098	**0.68**	**3.4**	**25**	**1400**	**0.27 J**	<0.098	<0.098	<0.098	<0.098
1,1,1-Trichloroethane	200	**54**	<0.061	<0.061	**0.40 J**	**0.46 J**	**62**	<0.061	<0.061	<0.061	<0.061	**1.8**	**110**	<0.061	<0.061	<0.061	<0.061	<0.061
1,1,2-Trichloroethane	3	<0.66	<0.066	<0.066	**0.25 J**	<0.066	<0.66	<0.066	<0.066	<0.066	<0.066	**0.27 J**	<6.6	**0.32 J**	<0.066	**1.1**	<0.066	<0.066
Trichloroethene	5	**360**	**5.9**	<0.078	**81**	**5.8**	**670**	**250**	<0.078	**3.8**	**46**	**120**	**2500**	**6.0**	**2.5**	**0.67**	<0.078	**0.28 J**
Vinyl Chloride	2	<0.97	<0.097	<0.097	<0.097	<0.097	<0.97	<0.097	<0.097	**37**	<0.097	<0.097	<9.7	<0.097	<0.097	<0.097	<0.097	<0.097
Total VOCs		585	12.9	8.51	128.76	15.08	1668.7	547.35	3.5	50.69	117.47	286.67	4720	30.85	4.7	31.76	0.51	0.68

NOTES:
Units are ug/L
Bold font indicates parameter was present above detection limit; shaded cell indicates MCL exceedance.
'J' values indicate that the constituent was detected above the laboratory detection limit, but below the laborartory reporting limit.
MCL = Maximum Contaminant Level
NS = Not Sampled
NE = Not Established
* indicates that the higher concentration was reported regardless of sampling method (CP or PBD)
** Total Xylenes

TABLE 10
Groundwater Extraction Flow Rates and Mass Removal
Ascend Performance Materials Operations - Greenwood, South Carolina

MONTH	PERIOD	CDS (gallons)			BURN PIT (gallons)	
		EW-1C	EW-2A	EW-3B	EW-4D	EW-32S
2019						
November	10/31-12/2	19,187	n/a	126,377	863,090	21,430
December	12/2-12/30	24,131	n/a	113,235	771,260	19,092
2020						
January	12/30-1/13	27,145	24,235	132,125	894,580	22,402
February	1/13-2/29	6,850	15,589	91,831	816,850	20,233
March	2/29-3/31	n/a	15,434	170,170	942,340	23,267
April	3/31-4/30	n/a	33,611	133,417	874,180	21,738
Total Gallons (November thru April)		77,313	88,869	767,155	5,162,300	128,162
Total Liters		292,560	336,289	2,902,991	19,534,659	484,978
Average Flow (gpd)		639	728	4,215	28,364	704
Average Flow (gpm)		0.44	0.51	2.93	19.70	0.49
March 20202 Total VOCs (ug/L)		785	791	793	287	4,720
Est. VOC Mass Removed (kg)		0.2	0.3	2.3	5.6	2.3
Est. VOC Mass Removed (lbs)		0.5	0.6	5.1	12.4	5.0
Total Volume Pumped (gal)					BP	5,290,462
					CDS	933,337
					TOTAL	**6,223,799**
Total VOCs Removed (lbs)					BP	17.4
					CDS	6.2
					TOTAL	**23.6**

TABLE 11

Site Constituents of Concern

Ascend Performance Materials Operations - Greenwood, South Carolina

Parameter	Soil	Ground water	Surface Water
Acetone	X	X	
Benzene	X	X	
Bromomethane	X	X	
2-Butanone (MEK)	X	X	
Carbon Tetrachloride	X	X	
Chlorobenzene	X	X	
Chloroethane	X	X	
Chloroform	X	X	X
1,1-Dichloroethane	X	X	
1,2-Dichloroethane	X	X	
1,1-Dichloroethene	X	X	X
cis-1,2-Dichloroethene	X	X	
Dichlorodifluoromethane	X	X	
1,4-Dioxane	X	X	X
Ethylbenzene	X	X	
p-Isopropyltoluene	X	X	
Methylene Chloride	X	X	
Naphthalene	X	X	
Tetrachloroethene	X	X	
Toluene	X	X	
1,1,1-Trichloroethane	X	X	
1,1,2-Trichloroethane	X	X	
Trichloroethene	X	X	X
Vinyl Chloride	X	X	
Xylene	X	X	

TABLE 12
Receptor Survey Summary
Ascend Performance Materials Operations - Greenwood, South Carolina

Regulatory Concern	HRP Response
Water Supply Wells	SCDNR and SCDHEC supply water databases provided by SCDHEC FOI Department confirmed that there were no drinking water wells in the 1,000 foot radius. Three private water wells were identified to be located approximately 1,300 to 1,500 feet east of the Site boundary (Figure 36). On April 3, 2019, SCDHEC collected groundwater from each of these wells for analysis of total coliform and volatile organic compounds. Based on the laboratory analytical results, chemicals of concern were not detected in any of these water supply well samples collected. HRP received verbal confirmation from Greenwood Commission of Public Works that public water is available at the Site and the area surrounding the Site. However, the use of public water is optional. HRP windshield survey did not identify any supply wells in proximity to the Site.
Public Water Supplies	Fire hydrants and water meter/valves, indicative of a public supply of water, were observed within the 1,000 feet radius, therefore availability of potable water is not a concern.
Surface Water	Two unnamed tributaries of Saluda Branch Creek that flow to the northeast are located on the Site. Lake Greenwood is located approximately 3,000 feet east of the northeastern Site boundary.
Subsurface Structures	Subsurface utilities located on the Site and along Highway 246 include: natural gas, water supply, and sewer. Utilities are typically buried 3 to 5 feet underground. See Appendix G for a utility map of the area surrounding the Site.
Land Use Survey	Land use on adjacent properties is a mixture of industrial, commercial, agricultural, residential, and undeveloped.
Identification of Adjacent Property Owners and Occupants	See Appendix G.

TABLE 13

Risk Characterization Summary

Ascend Performance Materials Operations - Greenwood, South Carolina

Primary Sources	Primary Release Mechanism	Secondary Sources	Potential Environmental Hazards	Hazard Present Under Current or Future Site Conditions?							
				Exposure Type	Secondary Release Mechanism	Exposure Route	Receptors				
							On-Site Workers		Offsite Residents		Construction Workers
							Current	Future	Current	Future	Current Future
CDS and Former BP Area	Improper disposal	Soil[1]	Risk to Human Health	Direct Exposure	None	Ingestion	No	No	No	No	No No
						Dermal	No	No	No	No	No No
					Dust/ Vapors	Inhalation	No	No	No	No	No No
				Vapor Intrusion into Buildings	Vapors	Inhalation	No	No	No	No	No No
		Groundwater/ Surface Water[2,3]	Risk to Human Health	Exposure Type	Secondary Release Mechanism	Exposure Route	Receptors				
							On-Site Workers		Offsite Residents		Construction Workers
							Current	Future	Current	Future	Current Future
				Direct Exposure	None	Ingestion	No	No	No	No	Yes Yes
						Dermal	No	No	No	No	Yes Yes
						Inhalation	NA		NA		NA
				Vapor Intrusion into Buidlings	Vapors	Inhalation	No	No	No	No	No No
		Air[3]	Risk to Human Health	Exposure Type	Secondary Release Mechanism	Exposure Route	Receptors				
							On-Site Workers		Offsite Residents		Construction Workers
							Current	Future	Current	Future	Current Future
				Direct Exposure	None	Ingestion	NA		NA		NA
						Dermal	No	No	No	No	Yes Yes
						Inhalation	NA		NA		NA
				Vapor Intrusion into Buidlings	Vapors	Inhalation	No	No	No	No	No No

Notes

1. Exposure pathways for daily workers not complete. No potential for exposure of construction workers if source areas are avoided.
2. Assumes groundwater is not used as a site water supply and monitoring indicates that plume is not likely to migrate offsite under existing conditions. Potential for construction workers only in plume areas.
3. Potential for construction workers only in plume areas.

APPENDIX A

Sampling Methodologies and Field Screening Procedures

The following sections detail investigative techniques and data acquisition methods that were used throughout the course of the Remedial Investigation (RI).

Color-Tec Method

Color-Tec is a field-based analytical method that can be used to rapidly estimate the presence of CVOCs in soil and groundwater. The method was developed in 1997 by Ecology and Environment, Inc. and has successfully been utilized by the EPA, DOD, and SCDHEC Drycleaner section to expeditiously, and cost-effectively, delineate chlorinated solvent plumes. A copy of the Color-Tec Method was provided in the RI Work Plan. The Color-Tec Method was utilized at the Site to delineate the extent of CVOCs in the surficial aquifer prior to the installation of permanent groundwater monitoring wells.

A Color-Tec test kit, which comprises a colorimetric gas tube pump and disposable colorimetric gas detection tubes, was used to evaluate the presence and relative response of CVOCs in a soil or water sample. The Color-Tec Method details the work station set-up, sample collection and preparation, and sample analysis procedures. The method generally consists of the following:

- Soil and/or groundwater samples are collected via the installation of borings or temporary monitoring wells;
- For a water sample, an approximately 30 milliliter (ml) liquid sample is placed into a 40 ml volatile organic analysis (VOA) vial. For a soil sample, approximately 30 grams (~1.5 inches) of soil followed by approximately 20 ml of water is placed into a VOA vial;
- The vial containing the sample and the colorimetric tubes are placed in a test tube rack and heated in a water bath by an electronic hot plate to approximately 40 ^{o}C /104 ^{o}F to maximize the detection capability, and to create consistent analysis conditions;
- After the water bath, the samples are placed on a pump stand and a carbon pre-filter is used to purge the sample needle prior to introduction to the sample;
- A Colorimetric Detector Tube (133-LL, L, M or HA) is exposed and then entered into the pump inlet, and the opposing end of the tube is connected to the extraction needle;
- The extraction needle is positioned within the headspace of the VOA via containing the sample; and,
- Headspace is drawn into (50 cc, 100 cc, or 200 cc) by a piston pump and to colorimetric tubes. The colorimetric tube is examined to confirm the reagent for a color change.

Temporary Monitoring Wells

Temporary groundwater monitoring wells (TWs) were installed for the purpose of acquiring an immediate, one-time sample. TWs are typically installed by a Geoprobe utilizing direct push technology (DPT) or, less commonly, via hollow-stem augers. Groundwater sampling was conducted by a SCDHEC certified well driller using an SP16 screen point sampler with a four-foot screen. After the target depth was reached with the direct-push tool, a sample was collected using vinyl tubing and a peristaltic pump.

Alternatively, TWs were constructed of 1-inch diameter polyvinyl chloride well screen and solid riser pipe. A sand filter pack is installed in the annulus between the borehole and well screen to minimize formation materials from increasing sample turbidity. TWs are typically purged prior to the collection of samples in order to mitigate installation disturbance in the subsurface.

Groundwater data obtained from temporary wells provide an inherent level of variability due to the nature of the well installation (i.e., first water). As such, groundwater samples obtained from TWs were generally utilized in tandem with the Color-Tec analysis to provide field screening data. TWs were abandoned by a SCDHEC certified well driller within five days of installation in accordance with South Carolina Well Standards and Regulations R. 61-71.

Permanent Monitoring Well Installation

Surficial (i.e., saprolite) monitoring wells were utilized for the purpose of horizontal delineation of shallow aquifer constituents. Monitoring wells were installed by a state licensed driller in accordance with SCDHEC Well Application permits and South Carolina Well Standards and Regulations R. 61-71.

The hollow-stem auger drilling method was used for the installation of surficial monitoring wells. A field geologist prepared a soil boring log during advancement of each boring. Monitoring wells were installed the augers using 2-inch diameter schedule 40 flush-threaded PVC casing with 0.010-inch slotted screen. Surficial wells typically comprised a screened interval of 10 feet in length; however, screen length was determined in the field on a case-by-case basis through examination of geologic stratigraphy and observed screening results. All surficial wells were completed at the surface with a stick-up style metal casing, completed with a cement pad, and provided a security lock.

Well Development

Monitoring well development (and re-development) was accomplished by over-pumping with a submersible electric pump. Water quality parameters such as pH, temperature, conductivity, turbidity, and flow rate were monitored at specific time and/or volume intervals while pumping. Water quality parameters were analyzed using a multi-meter and recorded on a field log by a geologist. Field equipment was calibrated daily before use per the manufacturer's directions.

Development continued until water quality parameters were stable (+/- 10 percent) or as otherwise evaluated by field geologists. Development water was contained in 55-gallon drums before being transported to the on-site process water holding basins and ultimately discharged to the local POTW. Development of newly installed wells only occurred after twenty-four (24) hours had passed following installation, as per R. 61-71.

Equipment Decontamination

All reusable field equipment was decontaminated before first use and between locations. HRP's field sampling equipment decontamination procedures are generally consistent with the USEPA Region 4 SESD's *Equipment Cleaning and Decontamination Operating Procedure* (SESDPROC-205-R3, December 18, 2015) and included the following:

- Wash with a hot water, high pressure sprayer, or scrub in a solution of potable water and non-phosphate detergent or soap solution, e.g. Alconox laboratory detergent;
- Rinse with potable water;
- Rinse with distilled water (commercially available); and,
- Air dry.

Instrument probes that were not introduced below ground were thoroughly rinsed in distilled or de-ionized water before first use and between uses at different measurement locations. The water level probe and tape were decontaminated between wells by spraying with a solution of non-phosphate soap solution in distilled water, followed by a distilled water rinse.

Where pressure washing is used (e.g., the cleaning of drilling equipment), a temporary decontamination pad was constructed from heavy plastic sheeting draped over a large diameter connected PVC pipe to form a temporary berm. Liquid contained within the decontamination pad was transferred to 55-gallon drums. All decontamination fluids generated during field activities was containerized for disposal via the facilities process water holding basins and ultimate discharge to the local POTW.

Packer Testing

Packer testing was conducted at select existing bedrock monitoring wells. A packer is an inflatable seal or bladder which is placed down-hole for the purpose of isolating a particular segment within an open interval of a well. Packer testing methods can obtain in situ estimates of aquifer parameters (e.g., transmissivity and storage coefficient), and 2) CVOC data at distinct depth intervals within a well.

The use of packers for aquifer testing was performed in accordance with ASTM D 4630–96(08) *Determining Transmissivity and Storage Coefficient of Low-Permeability Rocks by In Situ Measurements Using the Constant Head Injection Test*. A Constant Head test involves the injection of potable water at a low flow rate into an isolated zone (i.e., straddle packers) of the bedrock aquifer. Monitoring the pressure response and the injection flow rate during this test yields estimates of aquifer characteristics.

Straddle packers can also be utilized to collect discrete groundwater samples from isolated intervals within deep wells. Groundwater samples obtained from intervals of interest were to be submitted to a certified laboratory for analysis. Constituent data obtained via packer testing provides a vertical profile of concentration versus depth that aids in the development of a Feasibility Study.

APPENDIX A-1

Former Waste Pond Area Laboratory Analytical Reports

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Ascend Performance Materials
Pace Project No.: 92336778

Sample: OW-8S **Lab ID: 92336778013** Collected: 04/11/17 12:08 Received: 04/11/17 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		04/13/17 20:37	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		04/13/17 20:37	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		04/13/17 20:37	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/13/17 20:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/13/17 20:37	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/13/17 20:37	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/13/17 20:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/13/17 20:37	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/13/17 20:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/13/17 20:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/13/17 20:37	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/13/17 20:37	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/13/17 20:37	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/13/17 20:37	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		04/13/17 20:37	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		04/13/17 20:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		04/13/17 20:37	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/13/17 20:37	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/13/17 20:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/13/17 20:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		04/13/17 20:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/13/17 20:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		04/13/17 20:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		04/13/17 20:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		04/13/17 20:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/13/17 20:37	75-35-4	
cis-1,2-Dichloroethene	**0.48J**	ug/L	1.0	0.19	1		04/13/17 20:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/13/17 20:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/13/17 20:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		04/13/17 20:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		04/13/17 20:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		04/13/17 20:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/13/17 20:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/13/17 20:37	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		04/13/17 20:37	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	78.4	1		04/13/17 20:37	123-91-1	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/13/17 20:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		04/13/17 20:37	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/13/17 20:37	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		04/13/17 20:37	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/13/17 20:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/13/17 20:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		04/13/17 20:37	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		04/13/17 20:37	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		04/13/17 20:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/13/17 20:37	630-20-6	

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ANALYTICAL RESULTS

Project: Ascend Performance Materials
Pace Project No.: 92336778

Sample: OW-8S **Lab ID: 92336778013** Collected: 04/11/17 12:08 Received: 04/11/17 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/13/17 20:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/13/17 20:37	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/13/17 20:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		04/13/17 20:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		04/13/17 20:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/13/17 20:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/13/17 20:37	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/13/17 20:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/13/17 20:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/13/17 20:37	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/13/17 20:37	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/13/17 20:37	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.66	1		04/13/17 20:37	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/13/17 20:37	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/13/17 20:37	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/13/17 20:37	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		04/13/17 20:37	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		04/13/17 20:37	2037-26-5	

Sample: OW-22S **Lab ID: 92336778014** Collected: 04/11/17 16:22 Received: 04/11/17 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		04/13/17 20:53	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		04/13/17 20:53	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		04/13/17 20:53	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/13/17 20:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/13/17 20:53	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/13/17 20:53	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/13/17 20:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/13/17 20:53	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/13/17 20:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/13/17 20:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/13/17 20:53	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/13/17 20:53	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/13/17 20:53	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/13/17 20:53	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		04/13/17 20:53	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		04/13/17 20:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		04/13/17 20:53	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/13/17 20:53	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/13/17 20:53	74-95-3	

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ANALYTICAL RESULTS

Project: Ascend Performance Materials
Pace Project No.: 92336778

Sample: OW-22S **Lab ID: 92336778014** Collected: 04/11/17 16:22 Received: 04/11/17 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/13/17 20:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		04/13/17 20:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/13/17 20:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		04/13/17 20:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		04/13/17 20:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		04/13/17 20:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/13/17 20:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		04/13/17 20:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/13/17 20:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/13/17 20:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		04/13/17 20:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		04/13/17 20:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		04/13/17 20:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/13/17 20:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/13/17 20:53	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		04/13/17 20:53	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	78.4	1		04/13/17 20:53	123-91-1	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/13/17 20:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		04/13/17 20:53	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/13/17 20:53	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		04/13/17 20:53	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/13/17 20:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/13/17 20:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		04/13/17 20:53	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		04/13/17 20:53	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		04/13/17 20:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/13/17 20:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/13/17 20:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/13/17 20:53	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/13/17 20:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		04/13/17 20:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		04/13/17 20:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/13/17 20:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/13/17 20:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/13/17 20:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/13/17 20:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/13/17 20:53	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/13/17 20:53	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/13/17 20:53	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.66	1		04/13/17 20:53	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/13/17 20:53	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/13/17 20:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		04/13/17 20:53	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		04/13/17 20:53	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		04/13/17 20:53	2037-26-5	

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ANALYTICAL RESULTS

Project: Ascend Performance Materials
Pace Project No.: 92336778

Sample: OW-23D **Lab ID: 92336778015** Collected: 04/11/17 16:27 Received: 04/11/17 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		04/13/17 21:09	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		04/13/17 21:09	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		04/13/17 21:09	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/13/17 21:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/13/17 21:09	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/13/17 21:09	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/13/17 21:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/13/17 21:09	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/13/17 21:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/13/17 21:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/13/17 21:09	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/13/17 21:09	75-00-3	
Chloroform	**0.47J**	ug/L	1.0	0.14	1		04/13/17 21:09	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/13/17 21:09	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		04/13/17 21:09	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		04/13/17 21:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		04/13/17 21:09	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/13/17 21:09	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/13/17 21:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/13/17 21:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		04/13/17 21:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/13/17 21:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		04/13/17 21:09	75-71-8	
1,1-Dichloroethane	**0.55J**	ug/L	1.0	0.32	1		04/13/17 21:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		04/13/17 21:09	107-06-2	
1,1-Dichloroethene	**9.5**	ug/L	1.0	0.56	1		04/13/17 21:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		04/13/17 21:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/13/17 21:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/13/17 21:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		04/13/17 21:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		04/13/17 21:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		04/13/17 21:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/13/17 21:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/13/17 21:09	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		04/13/17 21:09	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	78.4	1		04/13/17 21:09	123-91-1	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/13/17 21:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		04/13/17 21:09	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/13/17 21:09	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		04/13/17 21:09	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/13/17 21:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/13/17 21:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		04/13/17 21:09	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		04/13/17 21:09	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		04/13/17 21:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/13/17 21:09	630-20-6	

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ANALYTICAL RESULTS

Project: Ascend Performance Materials
Pace Project No.: 92336778

Sample: OW-23D **Lab ID: 92336778015** Collected: 04/11/17 16:27 Received: 04/11/17 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/13/17 21:09	79-34-5	
Tetrachloroethene	**0.58J**	ug/L	1.0	0.46	1		04/13/17 21:09	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/13/17 21:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		04/13/17 21:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		04/13/17 21:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/13/17 21:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/13/17 21:09	79-00-5	
Trichloroethene	**0.53J**	ug/L	1.0	0.47	1		04/13/17 21:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/13/17 21:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/13/17 21:09	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/13/17 21:09	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/13/17 21:09	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.66	1		04/13/17 21:09	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/13/17 21:09	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/13/17 21:09	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/13/17 21:09	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		04/13/17 21:09	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		04/13/17 21:09	2037-26-5	

Sample: DUP-1 **Lab ID: 92336778016** Collected: 04/11/17 16:29 Received: 04/11/17 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		04/13/17 21:25	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		04/13/17 21:25	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		04/13/17 21:25	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/13/17 21:25	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/13/17 21:25	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/13/17 21:25	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/13/17 21:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/13/17 21:25	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/13/17 21:25	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/13/17 21:25	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/13/17 21:25	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/13/17 21:25	75-00-3	
Chloroform	**0.48J**	ug/L	1.0	0.14	1		04/13/17 21:25	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/13/17 21:25	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		04/13/17 21:25	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		04/13/17 21:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		04/13/17 21:25	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/13/17 21:25	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/13/17 21:25	74-95-3	

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ANALYTICAL RESULTS

Project: Ascend Performance Materials
Pace Project No.: 92337083

Sample: OW-7S **Lab ID: 92337083001** Collected: 04/12/17 10:00 Received: 04/13/17 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		04/16/17 18:43	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		04/16/17 18:43	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		04/16/17 18:43	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/16/17 18:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/16/17 18:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/16/17 18:43	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/16/17 18:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/16/17 18:43	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/16/17 18:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/16/17 18:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/16/17 18:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/16/17 18:43	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/16/17 18:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/16/17 18:43	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		04/16/17 18:43	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		04/16/17 18:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		04/16/17 18:43	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/16/17 18:43	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/16/17 18:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/16/17 18:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		04/16/17 18:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/16/17 18:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		04/16/17 18:43	75-71-8	
1,1-Dichloroethane	**0.39J**	ug/L	1.0	0.32	1		04/16/17 18:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		04/16/17 18:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/16/17 18:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		04/16/17 18:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/16/17 18:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/16/17 18:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		04/16/17 18:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		04/16/17 18:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		04/16/17 18:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/16/17 18:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/16/17 18:43	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		04/16/17 18:43	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	78.4	1		04/16/17 18:43	123-91-1	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/16/17 18:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		04/16/17 18:43	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/16/17 18:43	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		04/16/17 18:43	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/16/17 18:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/16/17 18:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		04/16/17 18:43	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		04/16/17 18:43	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		04/16/17 18:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/16/17 18:43	630-20-6	

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ANALYTICAL RESULTS

Project: Ascend Performance Materials
Pace Project No.: 92337083

Sample: OW-7S **Lab ID: 92337083001** Collected: 04/12/17 10:00 Received: 04/13/17 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/16/17 18:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/16/17 18:43	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/16/17 18:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		04/16/17 18:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		04/16/17 18:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/16/17 18:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/16/17 18:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/16/17 18:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/16/17 18:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/16/17 18:43	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/16/17 18:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/16/17 18:43	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.66	1		04/16/17 18:43	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/16/17 18:43	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/16/17 18:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		04/16/17 18:43	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		04/16/17 18:43	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		04/16/17 18:43	2037-26-5	

Sample: EW-32S **Lab ID: 92337083002** Collected: 04/12/17 12:00 Received: 04/13/17 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Acetone	ND	ug/L	312	125	12.5		04/16/17 20:28	67-64-1	
Benzene	ND	ug/L	12.5	3.1	12.5		04/16/17 20:28	71-43-2	
Bromobenzene	ND	ug/L	12.5	3.8	12.5		04/16/17 20:28	108-86-1	
Bromochloromethane	ND	ug/L	12.5	2.1	12.5		04/16/17 20:28	74-97-5	
Bromodichloromethane	ND	ug/L	12.5	2.2	12.5		04/16/17 20:28	75-27-4	
Bromoform	ND	ug/L	12.5	3.2	12.5		04/16/17 20:28	75-25-2	
Bromomethane	ND	ug/L	62.5	3.6	12.5		04/16/17 20:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	62.5	12.0	12.5		04/16/17 20:28	78-93-3	
Carbon disulfide	ND	ug/L	25.0	14.4	12.5		04/16/17 20:28	75-15-0	
Carbon tetrachloride	ND	ug/L	12.5	3.1	12.5		04/16/17 20:28	56-23-5	
Chlorobenzene	ND	ug/L	12.5	2.9	12.5		04/16/17 20:28	108-90-7	
Chloroethane	ND	ug/L	12.5	6.8	12.5		04/16/17 20:28	75-00-3	
Chloroform	**6.4J**	ug/L	12.5	1.8	12.5		04/16/17 20:28	67-66-3	
Chloromethane	ND	ug/L	12.5	1.4	12.5		04/16/17 20:28	74-87-3	
2-Chlorotoluene	ND	ug/L	12.5	4.4	12.5		04/16/17 20:28	95-49-8	
4-Chlorotoluene	ND	ug/L	12.5	3.9	12.5		04/16/17 20:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	25.0	12.5		04/16/17 20:28	96-12-8	
Dibromochloromethane	ND	ug/L	12.5	2.6	12.5		04/16/17 20:28	124-48-1	
Dibromomethane	ND	ug/L	12.5	2.6	12.5		04/16/17 20:28	74-95-3	

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ANALYTICAL RESULTS

Project: Ascend Performance Materials
Pace Project No.: 92337083

Sample: PZ-31S PURGE **Lab ID: 92337083003** Collected: 04/12/17 11:48 Received: 04/13/17 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/14/17 13:57	79-34-5	
Tetrachloroethene	**0.52J**	ug/L	1.0	0.46	1		04/14/17 13:57	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/14/17 13:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		04/14/17 13:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		04/14/17 13:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/14/17 13:57	71-55-6	
1,1,2-Trichloroethane	**1.3**	ug/L	1.0	0.29	1		04/14/17 13:57	79-00-5	
Trichloroethene	**1.1**	ug/L	1.0	0.47	1		04/14/17 13:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/14/17 13:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/14/17 13:57	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/14/17 13:57	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/14/17 13:57	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.66	1		04/14/17 13:57	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/14/17 13:57	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/14/17 13:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/14/17 13:57	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		04/14/17 13:57	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		04/14/17 13:57	2037-26-5	

Sample: OW-23S **Lab ID: 92337083004** Collected: 04/12/17 09:42 Received: 04/13/17 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		04/14/17 14:13	67-64-1	
Benzene	**0.26J**	ug/L	1.0	0.25	1		04/14/17 14:13	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		04/14/17 14:13	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/14/17 14:13	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/14/17 14:13	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/14/17 14:13	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/14/17 14:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/14/17 14:13	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/14/17 14:13	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/14/17 14:13	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/14/17 14:13	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/14/17 14:13	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/14/17 14:13	67-66-3	
Chloromethane	**0.15J**	ug/L	1.0	0.11	1		04/14/17 14:13	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		04/14/17 14:13	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		04/14/17 14:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		04/14/17 14:13	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/14/17 14:13	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/14/17 14:13	74-95-3	

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ANALYTICAL RESULTS

Project: Ascend Performance Materials
Pace Project No.: 92337083

Sample: OW-23S **Lab ID: 92337083004** Collected: 04/12/17 09:42 Received: 04/13/17 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/14/17 14:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		04/14/17 14:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/14/17 14:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		04/14/17 14:13	75-71-8	
1,1-Dichloroethane	**40.7**	ug/L	1.0	0.32	1		04/14/17 14:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		04/14/17 14:13	107-06-2	
1,1-Dichloroethene	**4.5**	ug/L	1.0	0.56	1		04/14/17 14:13	75-35-4	
cis-1,2-Dichloroethene	**3.0**	ug/L	1.0	0.19	1		04/14/17 14:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/14/17 14:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/14/17 14:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		04/14/17 14:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		04/14/17 14:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		04/14/17 14:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/14/17 14:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/14/17 14:13	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		04/14/17 14:13	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	78.4	1		04/14/17 14:13	123-91-1	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/14/17 14:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		04/14/17 14:13	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/14/17 14:13	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		04/14/17 14:13	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/14/17 14:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/14/17 14:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		04/14/17 14:13	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		04/14/17 14:13	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		04/14/17 14:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/14/17 14:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/14/17 14:13	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/14/17 14:13	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/14/17 14:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		04/14/17 14:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		04/14/17 14:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/14/17 14:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/14/17 14:13	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/14/17 14:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/14/17 14:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/14/17 14:13	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/14/17 14:13	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/14/17 14:13	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.66	1		04/14/17 14:13	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/14/17 14:13	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/14/17 14:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		04/14/17 14:13	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		04/14/17 14:13	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		04/14/17 14:13	2037-26-5	

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ANALYTICAL RESULTS

Project: ASCEND 2017 FALL
Pace Project No.: 92355747

Sample: OW-22S **Lab ID: 92355747015** Collected: 09/19/17 09:45 Received: 09/19/17 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Acetone	**13.0J**	ug/L	25.0	10.0	1		09/22/17 16:32	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		09/22/17 16:32	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		09/22/17 16:32	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		09/22/17 16:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/22/17 16:32	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		09/22/17 16:32	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		09/22/17 16:32	74-83-9	
2-Butanone (MEK)	**2.0J**	ug/L	5.0	0.96	1		09/22/17 16:32	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		09/22/17 16:32	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/22/17 16:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		09/22/17 16:32	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		09/22/17 16:32	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		09/22/17 16:32	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/22/17 16:32	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		09/22/17 16:32	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		09/22/17 16:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		09/22/17 16:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		09/22/17 16:32	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		09/22/17 16:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		09/22/17 16:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		09/22/17 16:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/22/17 16:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		09/22/17 16:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		09/22/17 16:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		09/22/17 16:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		09/22/17 16:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		09/22/17 16:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		09/22/17 16:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/22/17 16:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		09/22/17 16:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		09/22/17 16:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		09/22/17 16:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/22/17 16:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/22/17 16:32	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		09/22/17 16:32	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	78.4	1		09/22/17 16:32	123-91-1	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/22/17 16:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		09/22/17 16:32	87-68-3	M1
2-Hexanone	ND	ug/L	5.0	0.46	1		09/22/17 16:32	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		09/22/17 16:32	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		09/22/17 16:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		09/22/17 16:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		09/22/17 16:32	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		09/22/17 16:32	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		09/22/17 16:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		09/22/17 16:32	630-20-6	

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ANALYTICAL RESULTS

Project: ASCEND 2017 FALL
Pace Project No.: 92355747

Sample: OW-22S **Lab ID: 92355747015** Collected: 09/19/17 09:45 Received: 09/19/17 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		09/22/17 16:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/22/17 16:32	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		09/22/17 16:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		09/22/17 16:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		09/22/17 16:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/22/17 16:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/22/17 16:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/22/17 16:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/22/17 16:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/22/17 16:32	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		09/22/17 16:32	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/22/17 16:32	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		09/22/17 16:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		09/22/17 16:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		09/22/17 16:32	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		09/22/17 16:32	460-00-4	
1,2-Dichloroethane-d4 (S)	78	%	70-130		1		09/22/17 16:32	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		09/22/17 16:32	2037-26-5	

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ANALYTICAL RESULTS

Project: ASCEND 2017 FALL
Pace Project No.: 92355747

Sample: OW-7S **Lab ID: 92355747016** Collected: 09/19/17 09:55 Received: 09/19/17 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Acetone	**16.1J**	ug/L	25.0	10.0	1		09/21/17 20:30	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		09/21/17 20:30	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		09/21/17 20:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		09/21/17 20:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/21/17 20:30	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		09/21/17 20:30	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		09/21/17 20:30	74-83-9	L2
2-Butanone (MEK)	**1.9J**	ug/L	5.0	0.96	1		09/21/17 20:30	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		09/21/17 20:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/21/17 20:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		09/21/17 20:30	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		09/21/17 20:30	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		09/21/17 20:30	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/21/17 20:30	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		09/21/17 20:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		09/21/17 20:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		09/21/17 20:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		09/21/17 20:30	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		09/21/17 20:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		09/21/17 20:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		09/21/17 20:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/21/17 20:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		09/21/17 20:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		09/21/17 20:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		09/21/17 20:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		09/21/17 20:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		09/21/17 20:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		09/21/17 20:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/21/17 20:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		09/21/17 20:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		09/21/17 20:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		09/21/17 20:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/21/17 20:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/21/17 20:30	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		09/21/17 20:30	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	78.4	1		09/21/17 20:30	123-91-1	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/21/17 20:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		09/21/17 20:30	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		09/21/17 20:30	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		09/21/17 20:30	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		09/21/17 20:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		09/21/17 20:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		09/21/17 20:30	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		09/21/17 20:30	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		09/21/17 20:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		09/21/17 20:30	630-20-6	

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ANALYTICAL RESULTS

Project: ASCEND 2017 FALL
Pace Project No.: 92355747

Sample: OW-7S **Lab ID: 92355747016** Collected: 09/19/17 09:55 Received: 09/19/17 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		09/21/17 20:30	79-34-5	
Tetrachloroethene	**0.51J**	ug/L	1.0	0.46	1		09/21/17 20:30	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		09/21/17 20:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		09/21/17 20:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		09/21/17 20:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/21/17 20:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/21/17 20:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/21/17 20:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/21/17 20:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/21/17 20:30	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		09/21/17 20:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/21/17 20:30	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		09/21/17 20:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		09/21/17 20:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		09/21/17 20:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		09/21/17 20:30	460-00-4	
1,2-Dichloroethane-d4 (S)	77	%	70-130		1		09/21/17 20:30	17060-07-0	
Toluene-d8 (S)	120	%	70-130		1		09/21/17 20:30	2037-26-5	

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ANALYTICAL RESULTS

Project: ASCEND 2017 FALL
Pace Project No.: 92355747

Sample: OW-23S **Lab ID: 92355747017** Collected: 09/19/17 10:05 Received: 09/19/17 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Acetone	**12.0J**	ug/L	25.0	10.0	1		09/21/17 20:48	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		09/21/17 20:48	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		09/21/17 20:48	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		09/21/17 20:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/21/17 20:48	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		09/21/17 20:48	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		09/21/17 20:48	74-83-9	L2
2-Butanone (MEK)	**2.2J**	ug/L	5.0	0.96	1		09/21/17 20:48	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		09/21/17 20:48	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/21/17 20:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		09/21/17 20:48	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		09/21/17 20:48	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		09/21/17 20:48	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/21/17 20:48	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		09/21/17 20:48	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		09/21/17 20:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		09/21/17 20:48	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		09/21/17 20:48	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		09/21/17 20:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		09/21/17 20:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		09/21/17 20:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/21/17 20:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		09/21/17 20:48	75-71-8	
1,1-Dichloroethane	**45.0**	ug/L	1.0	0.32	1		09/21/17 20:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		09/21/17 20:48	107-06-2	
1,1-Dichloroethene	**6.3**	ug/L	1.0	0.56	1		09/21/17 20:48	75-35-4	
cis-1,2-Dichloroethene	**2.8**	ug/L	1.0	0.19	1		09/21/17 20:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		09/21/17 20:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/21/17 20:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		09/21/17 20:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		09/21/17 20:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		09/21/17 20:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/21/17 20:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/21/17 20:48	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		09/21/17 20:48	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	78.4	1		09/21/17 20:48	123-91-1	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/21/17 20:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		09/21/17 20:48	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		09/21/17 20:48	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		09/21/17 20:48	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		09/21/17 20:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		09/21/17 20:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		09/21/17 20:48	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		09/21/17 20:48	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		09/21/17 20:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		09/21/17 20:48	630-20-6	

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ANALYTICAL RESULTS

Project: ASCEND 2017 FALL
Pace Project No.: 92355747

Sample: OW-23S **Lab ID: 92355747017** Collected: 09/19/17 10:05 Received: 09/19/17 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		09/21/17 20:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/21/17 20:48	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		09/21/17 20:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		09/21/17 20:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		09/21/17 20:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/21/17 20:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/21/17 20:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/21/17 20:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/21/17 20:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/21/17 20:48	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		09/21/17 20:48	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/21/17 20:48	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		09/21/17 20:48	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		09/21/17 20:48	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		09/21/17 20:48	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		09/21/17 20:48	460-00-4	
1,2-Dichloroethane-d4 (S)	80	%	70-130		1		09/21/17 20:48	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		09/21/17 20:48	2037-26-5	

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ANALYTICAL RESULTS

Project: ASCEND 2017 FALL
Pace Project No.: 92355747

Sample: OW-23D **Lab ID: 92355747018** Collected: 09/19/17 10:10 Received: 09/19/17 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Acetone	**15.2J**	ug/L	25.0	10.0	1		09/23/17 09:01	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		09/23/17 09:01	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		09/23/17 09:01	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		09/23/17 09:01	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/23/17 09:01	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		09/23/17 09:01	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		09/23/17 09:01	74-83-9	L2
2-Butanone (MEK)	**2.1J**	ug/L	5.0	0.96	1		09/23/17 09:01	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		09/23/17 09:01	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/23/17 09:01	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		09/23/17 09:01	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		09/23/17 09:01	75-00-3	
Chloroform	**0.24J**	ug/L	1.0	0.14	1		09/23/17 09:01	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/23/17 09:01	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		09/23/17 09:01	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		09/23/17 09:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		09/23/17 09:01	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		09/23/17 09:01	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		09/23/17 09:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		09/23/17 09:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		09/23/17 09:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/23/17 09:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		09/23/17 09:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		09/23/17 09:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		09/23/17 09:01	107-06-2	
1,1-Dichloroethene	**1.4**	ug/L	1.0	0.56	1		09/23/17 09:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		09/23/17 09:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		09/23/17 09:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/23/17 09:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		09/23/17 09:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		09/23/17 09:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		09/23/17 09:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/23/17 09:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/23/17 09:01	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		09/23/17 09:01	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	78.4	1		09/23/17 09:01	123-91-1	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/23/17 09:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		09/23/17 09:01	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		09/23/17 09:01	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		09/23/17 09:01	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		09/23/17 09:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		09/23/17 09:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		09/23/17 09:01	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		09/23/17 09:01	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		09/23/17 09:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		09/23/17 09:01	630-20-6	

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ANALYTICAL RESULTS

Project: ASCEND 2017 FALL
Pace Project No.: 92355747

Sample: OW-23D **Lab ID: 92355747018** Collected: 09/19/17 10:10 Received: 09/19/17 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		09/23/17 09:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/23/17 09:01	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		09/23/17 09:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		09/23/17 09:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		09/23/17 09:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/23/17 09:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/23/17 09:01	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/23/17 09:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/23/17 09:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/23/17 09:01	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		09/23/17 09:01	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/23/17 09:01	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		09/23/17 09:01	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		09/23/17 09:01	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		09/23/17 09:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		09/23/17 09:01	460-00-4	
1,2-Dichloroethane-d4 (S)	79	%	70-130		1		09/23/17 09:01	17060-07-0	
Toluene-d8 (S)	91	%	70-130		1		09/23/17 09:01	2037-26-5	

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ANALYTICAL RESULTS

Project: ASCEND 2017 FALL
Pace Project No.: 92355747

Sample: OW-8S **Lab ID: 92355747020** Collected: 09/19/17 11:55 Received: 09/19/17 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		09/23/17 09:18	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		09/23/17 09:18	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		09/23/17 09:18	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		09/23/17 09:18	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/23/17 09:18	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		09/23/17 09:18	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		09/23/17 09:18	74-83-9	L2
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		09/23/17 09:18	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		09/23/17 09:18	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/23/17 09:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		09/23/17 09:18	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		09/23/17 09:18	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		09/23/17 09:18	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/23/17 09:18	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		09/23/17 09:18	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		09/23/17 09:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		09/23/17 09:18	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		09/23/17 09:18	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.21	1		09/23/17 09:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		09/23/17 09:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		09/23/17 09:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/23/17 09:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		09/23/17 09:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		09/23/17 09:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		09/23/17 09:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		09/23/17 09:18	75-35-4	
cis-1,2-Dichloroethene	**0.44J**	ug/L	1.0	0.19	1		09/23/17 09:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		09/23/17 09:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/23/17 09:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		09/23/17 09:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		09/23/17 09:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		09/23/17 09:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/23/17 09:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/23/17 09:18	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		09/23/17 09:18	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	78.4	1		09/23/17 09:18	123-91-1	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/23/17 09:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		09/23/17 09:18	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		09/23/17 09:18	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		09/23/17 09:18	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		09/23/17 09:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		09/23/17 09:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		09/23/17 09:18	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		09/23/17 09:18	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		09/23/17 09:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		09/23/17 09:18	630-20-6	

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ANALYTICAL RESULTS

Project: ASCEND 2017 FALL
Pace Project No.: 92355747

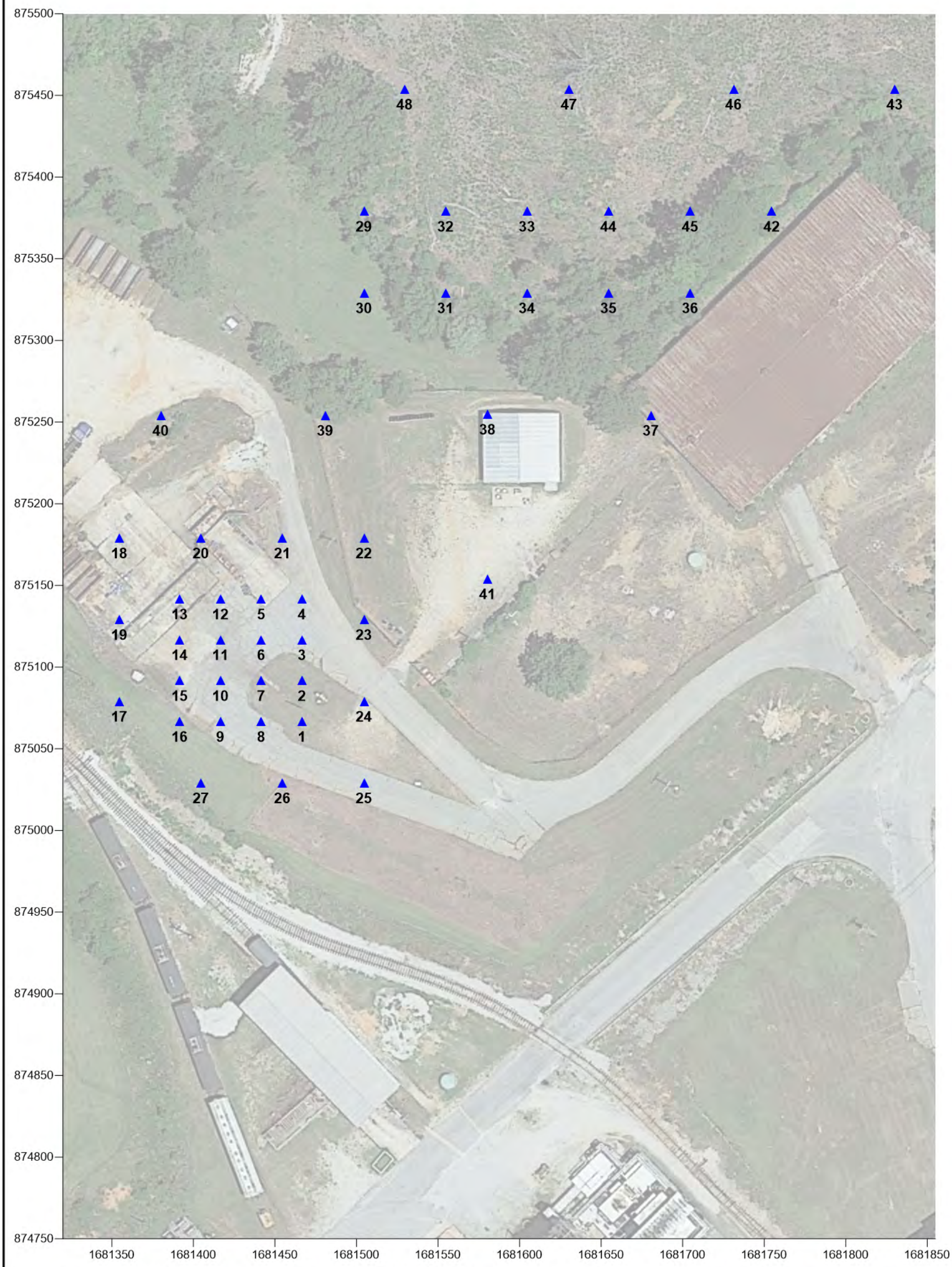
Sample: OW-8S **Lab ID: 92355747020** Collected: 09/19/17 11:55 Received: 09/19/17 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		09/23/17 09:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/23/17 09:18	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		09/23/17 09:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		09/23/17 09:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		09/23/17 09:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/23/17 09:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/23/17 09:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/23/17 09:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/23/17 09:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/23/17 09:18	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		09/23/17 09:18	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/23/17 09:18	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		09/23/17 09:18	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		09/23/17 09:18	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		09/23/17 09:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		09/23/17 09:18	460-00-4	
1,2-Dichloroethane-d4 (S)	76	%	70-130		1		09/23/17 09:18	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		09/23/17 09:18	2037-26-5	

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APPENDIX B
Passive Soil Gas Survey Figures



System: State Plane
Zone: South Carolina
Datum: NAD 1983
Coordinate Units: Feet

LEGEND

▲ 25 PASSIVE SOIL-GAS SAMPLE LOCATION

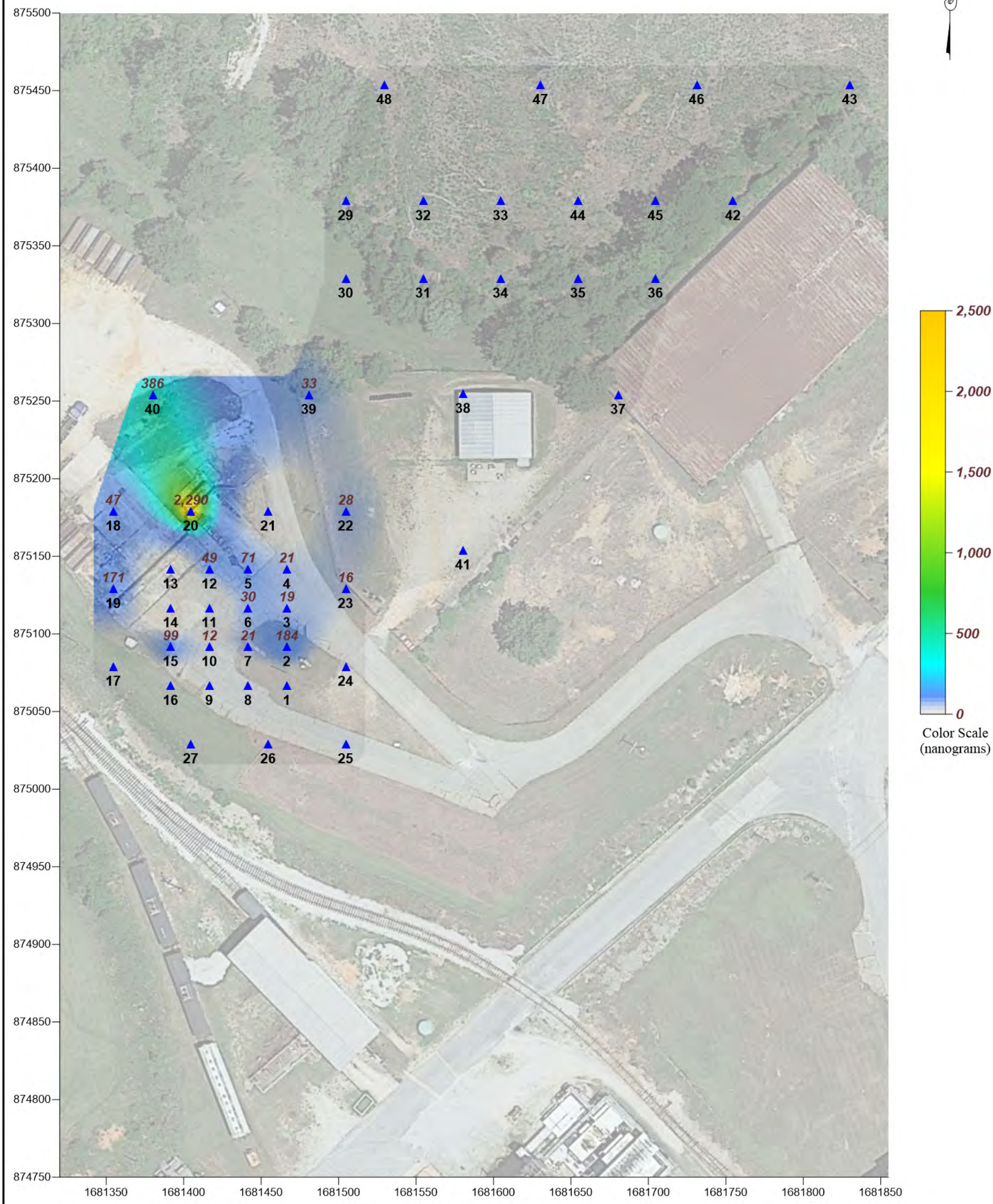
Scale in Feet

0 65 130

BEACON ENVIRONMENTAL SERVICES, INC.
2203A Commerce Road, Suite 1, Forest Hill, MD 21050 USA
www.Beacon-USA.com 1-410-838-8780
Beacon Project No. 5031, January 2020

Figure 1
Passive Soil-Gas Survey
Sample Locations

Ascend
1515 Highway 246 South, Greenwood, SC



System: State Plane
Zone: South Carolina
Datum: NAD 1983
Coordinate Units: Feet

LEGEND

1,000 NANOGRAMS/SAMPLER

▲ 25 PASSIVE SOIL-GAS SAMPLE LOCATION

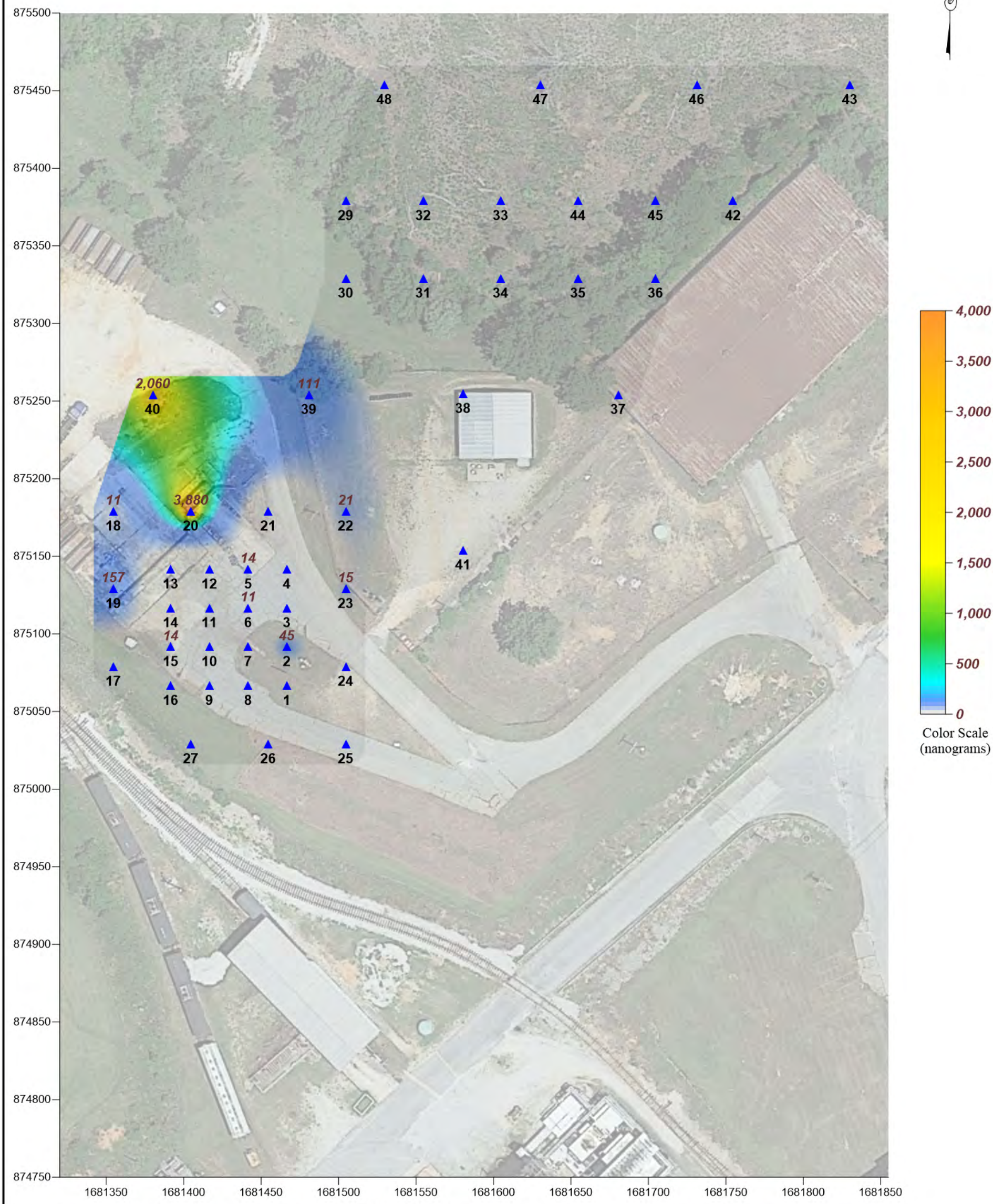
Scale in Feet

0 65 130

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Figure 2
Passive Soil-Gas Survey
1,1-Dichloroethene

Ascend
1515 Highway 246 South, Greenwood, SC



System: State Plane
Zone: South Carolina
Datum: NAD 1983
Coordinate Units: Feet

LEGEND

1,000 NANOGRAMS/SAMPLER

▲ 25 PASSIVE SOIL-GAS SAMPLE LOCATION

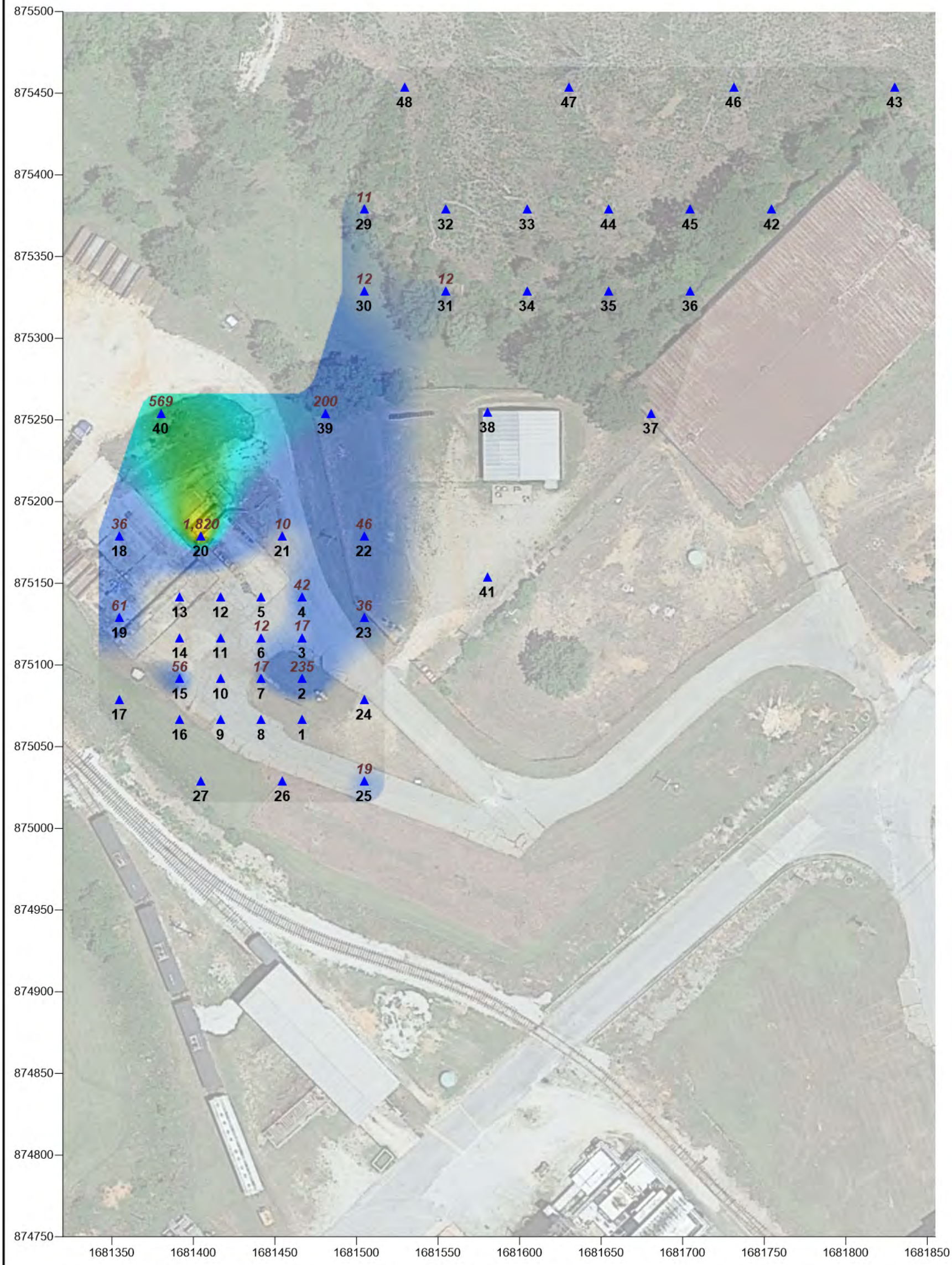
Scale in Feet

0 65 130

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Figure 3
Passive Soil-Gas Survey
Trichloroethene

Ascend
1515 Highway 246 South, Greenwood, SC



System: State Plane
Zone: South Carolina
Datum: NAD 1983
Coordinate Units: Feet

LEGEND

1,000 NANOGRAMS/SAMPLER

▲ 25 PASSIVE SOIL-GAS SAMPLE LOCATION

Scale in Feet

0 65 130

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Figure 4
Passive Soil-Gas Survey
Tetrachloroethene

Ascend
1515 Highway 246 South, Greenwood, SC

APPENDIX C
Historical Analytical Database

March 2020

APPENDIX C
EW-04D (Burn Pit)
Historical VOC Concentrations

Parameter	Unit	Mar-99	Jun-99	Dec-99	Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jul-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04	Jun-04	Sep-04
1,1,1-Trichloroethane	ug/l	< 50	< 25	< 25	< 25	< 25	< 25	< 20	< 25	< 50	< 25	< 20	< 20	< 20	< 20	< 20	< 20	< 20	**11**	< 10	**11**	**7.2**	**6.4**
1,1,2,2-Tetrachloroethane	ug/l	< 50	< 25	< 25	< 25	< 25	< 25	< 20	< 25	< 50	< 25	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/l	< 50	< 25	< 25	< 25	< 25	< 25	< 20	< 25	< 50	< 25	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 5	< 5	< 5
1,1-Dichloroethane	ug/l	< 50	< 25	< 25	< 25	< 25	< 25	< 20	< 25	< 50	< 25	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 5	< 5	< 5
1,1-Dichloroethene	ug/l	**640**	**420**	**500**	**440**	**550**	**350**	**260**	**410**	**330**	**320**	**300**	**280**	**380**	**280**	**270**	**230**	**370**	**280**	**320**	**230**	**240**	**250**
1,2-Dichloroethane	ug/l	< 50	< 25	< 25	< 25	< 25	< 25	< 20	< 25	< 50	< 25	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 5	< 5	< 5
1,2-Dichloroethene, Total	ug/l	< 50	< 25	< 25	< 25	< 25	< 25	< 20	< 25	< 50	< 25	< 20	< 20	< 20	< 20	< 20	< 40	< 40	< 20	< 20	< 10	< 10	< 10
1,2-Dichloropropane	ug/l	< 50	< 25	< 25	< 25	< 25	< 25	< 20	< 25	< 50	< 25	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 5	< 5	< 5
2-Butanone	ug/l	< 250	< 120	< 120	< 120	< 120	< 120	< 100	< 120	< 250	< 120	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 50	< 50	< 50
2-Hexanone	ug/l	< 250	< 120	< 120	< 120	< 120	< 120	< 100	< 120	< 250	< 120	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 50	< 50	< 50
4-Methyl-2-pentanone	ug/l	< 250	< 120	< 120	< 120	< 120	< 120	< 100	< 120	< 250	< 120	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 50	< 50	< 50
Acetone	ug/l	< 500	< 250	< 250	< 250	< 250	< 250	< 200	< 250	< 500	< 250	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 250	< 250	< 120	< 120	< 120
Benzene	ug/l	< 50	< 25	< 25	< 25	< 25	< 25	< 20	< 25	< 50	< 25	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 5	< 5	< 5
Bromodichloromethane	ug/l	< 50	< 25	< 25	< 25	< 25	< 25	< 20	< 25	< 50	< 25	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 5	< 5	< 5
Bromoform	ug/l	< 50	< 25	< 25	< 25	< 25	< 25	< 20	< 25	< 50	< 25	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 5	< 5	< 5
Bromomethane	ug/l	< 100	< 50	< 50	< 50	< 50	< 50	< 40	< 50	< 100	< 50	< 40	< 40	< 40	< 40	< 40	< 20	< 20	< 10	< 10	< 5	< 5	< 5
Carbon Disulfide	ug/l	< 50	< 25	< 25	< 25	< 25	< 25	< 20	< 25	< 50	< 25	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 50	< 25	< 25	< 25	< 25	< 25	< 20	< 25	< 50	< 25	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 5	< 5	< 5
Chlorobenzene	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/l	< 100	< 50	< 50	< 50	< 50	< 50	< 40	< 50	< 100	< 50	< 40	< 40	< 40	< 40	< 40	< 20	< 20	< 10	< 10	< 5	< 5	< 5
Chloroform	ug/l	**180**	**140**	**200**	**200**	**220**	**170**	**150**	**180**	**180**	**160**	**150**	**160**	**210**	**150**	**140**	**150**	**150**	**160**	**170**	**150**	**170**	**160**
Chloromethane	ug/l	< 100	< 50	< 50	< 50	< 50	< 50	< 40	< 50	< 100	< 50	< 40	< 40	< 40	< 40	< 40	< 20	< 20	< 10	< 10	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/l	< 50	< 25	< 25	< 25	< 25	< 25	< 20	< 25	< 50	< 25	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 5	< 5	< 5
Dibromochloromethane	ug/l	< 50	< 25	< 25	< 25	< 25	< 25	< 20	< 25	< 50	< 25	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 5	< 5	< 5
Ethylbenzene	ug/l	< 50	< 25	< 25	< 25	< 25	< 25	< 20	< 25	< 50	< 25	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 5	< 5	< 5
Methylene Chloride	ug/l	< 50	< 25	< 25	< 25	< 25	< 25	< 20	< 25	< 50	< 25	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 50	< 50	< 25	< 25	< 25
Styrene	ug/l	< 50	< 25	< 25	< 25	< 25	< 25	< 20	< 25	< 50	< 25	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 5	< 5	< 5
Tetrachloroethene	ug/l	**99**	**63**	**82**	**69**	**76**	**57**	**56**	**78**	**58**	**50**	**43**	**45**	**42**	**47**	**51**	**46**	**51**	**50**	**52**	**42**	**47**	**43**
Toluene	ug/l	< 50	< 25	< 25	< 25	< 25	< 25	< 20	< 25	< 50	< 25	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/l	< 50	< 25	< 25	< 25	< 25	< 25	< 20	< 25	< 50	< 25	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 5	< 5	< 5
Trichloroethene	ug/l	**850**	**530**	**630**	**560**	**650**	**490**	**470**	**690**	**530**	**460**	**410**	**410**	**490**	**440**	**410**	**370**	**400**	**440**	**450**	**380**	**330**	**330**
Vinyl Chloride	ug/l	< 100	< 50	< 50	< 50	< 50	< 50	< 40	< 50	< 100	< 50	< 40	< 40	< 40	< 40	< 40	< 20	< 20	< 10	< 10	< 5	< 5	< 5
Xylenes, Total	ug/l	< 50	< 25	< 50	< 50	< 50	< 50	< 40	< 50	< 100	< 50	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 20	< 20	< 10	< 10	< 10
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/L	**1,769**	**1,153**	**1,412**	**1,269**	**1,496**	**1,067**	**936**	**1,358**	**1,098**	**990**	**903**	**895**	**1,122**	**917**	**871**	**796**	**971**	**941**	**992**	**813**	**794**	**789**

APPENDIX C

EW-04D (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09
1,1,1-Trichloroethane	ug/l	**8.3**	**8.2**	**< 5**	**8.6**	< 5	**1.7**	**7.2**	**7.9**	**7.4**	**7.8**	**7.7**	**11**	**7.9**	**10**	**7.0**	**7.3**	**7.6**	**7.0**
1,1,2,2-Tetrachloroethane	ug/l	< 5	< 5	< 5	< 2.5	< 5	< 1	< 5	< 2	< 2	< 5	< 2	< 2	< 4	< 2	< 2	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 2.5	< 5	< 1	< 5	< 2	< 2	< 5	< 2	< 2	< 4	< 2	< 2	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	< 5	< 5	< 5	**3.1**	< 5	< 1	< 5	**2.9**	**2.3**	< 5	**2.8**	**2.7**	< 4	< 2	< 2	**1.9**	**2.4**	**1.9**
1,1-Dichloroethene	ug/l	**300**	**260**	**220**	**270**	**210**	**33**	**180**	**280**	**240**	**290**	**240**	**200**	**210**	**170**	**150**	**250**	**240**	**210**
1,2-Dichloroethane	ug/l	< 5	< 5	< 5	2.9	< 5	< 1	< 5	2.4	2.7	< 5	2.3	3.1	< 4	**2.7**	**2.1**	< 1	**2.1**	**1.8**
1,2-Dichloroethene, Total	ug/l	< 10	< 10	< 10	< 5	< 10	< 2	< 10	< 4	< 4	< 10	< 4	< 4	< 8	< 4	< 4	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 5	< 5	< 5	< 2.5	< 5	< 1	< 5	< 2	< 2	< 5	< 2	< 2	< 4	< 2	< 2	< 1	< 1	< 1
2-Butanone	ug/l	< 50	< 50	< 50	< 25	< 50	< 10	< 50	< 20	< 20	< 50	< 20	< 20	< 40	< 20	< 20	< 5	< 5	< 5
2-Hexanone	ug/l	< 50	< 50	< 50	< 25	< 50	< 10	< 50	< 20	< 20	< 50	< 20	< 20	< 40	< 20	< 20	< 5	< 5	< 5
4-Methyl-2-pentanone	ug/l	< 50	< 50	< 50	< 25	< 50	< 10	< 50	< 20	< 20	< 50	< 20	< 20	< 40	< 20	< 20	< 5	< 5	< 5
Acetone	ug/l	< 120	< 130	< 130	< 63	< 130	< 25	< 130	< 50	< 50	< 130	< 50	< 50	< 100	< 50	< 50	< 5	< 5	< 5
Benzene	ug/l	< 5	< 5	< 5	< 2.5	< 5	< 1	< 5	< 2	< 2	< 5	< 2	< 2	< 4	< 2	< 2	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 5	< 5	< 5	< 2.5	< 5	< 1	< 5	< 2	< 2	< 5	< 2	< 2	< 4	< 2	< 2	< 1	< 1	< 1
Bromoform	ug/l	< 5	< 5	< 5	< 2.5	< 5	< 1	< 5	< 2	< 2	< 5	< 2	< 2	< 4	< 2	< 2	< 1	< 1	< 1
Bromomethane	ug/l	< 5	< 5	< 5	< 2.5	< 5	< 1	< 5	< 2	< 2	< 5	< 2	< 2	< 4	< 2	< 2	< 1	< 1	< 1
Carbon Disulfide	ug/l	< 5	< 5	< 5	< 2.5	< 5	< 2	< 10	< 4	< 4	< 10	< 4	< 4	< 8	< 4	< 4	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 5	< 5	< 5	< 2.5	< 5	< 1	< 5	**2.1**	< 2	< 5	< 2	**2.2**	< 4	**2.3**	< 2	**2.2**	**1.8**	**2.0**
Chlorobenzene	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	< 2	< 2	< 1	< 1	< 1
Chloroethane	ug/l	< 5	< 5	< 5	< 2.5	< 5	< 1	< 5	< 2	< 2	< 5	< 2	< 2	< 4	< 2	< 2	< 1	< 1	< 1
Chloroform	ug/l	**190**	**200**	**170**	**200**	**160**	**28**	**160**	**190**	**170**	**210**	**200**	**190**	**180**	**170**	**140**	**180**	**140**	**160**
Chloromethane	ug/l	< 5	< 5	< 5	< 2.5	< 5	< 1	< 5	< 2	< 2	< 5	< 2	< 2	< 4	< 2	< 2	< 1	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 2.5	< 5	< 1	< 5	< 2	< 2	< 5	< 2	< 2	< 4	< 2	< 2	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 5	< 5	< 5	< 2.5	< 5	< 1	< 5	< 2	< 2	< 5	< 2	< 2	< 4	< 2	< 2	< 1	< 1	< 1
Ethylbenzene	ug/l	< 5	< 5	< 5	< 2.5	< 5	< 1	< 5	< 2	< 2	< 5	< 2	< 2	< 4	< 2	< 2	< 1	< 1	< 2
Methylene Chloride	ug/l	< 25	< 5	< 25	< 13	< 25	< 5	< 25	< 10	< 10	< 25	< 10	< 10	< 20	< 10	< 10	< 2	< 2	< 1
Styrene	ug/l	< 5	< 5	< 5	< 2.5	< 5	< 1	< 5	< 2	< 2	< 5	< 2	< 2	< 4	< 2	< 2	< 1	< 1	< 1
Tetrachloroethene	ug/l	**46**	**47**	**47**	**49**	**39**	**7.4**	**44**	**51**	**46**	**39**	**51**	**38**	**42**	**46**	**34**	**37**	**43**	**41**
Toluene	ug/l	< 5	< 5	< 5	3.3	< 5	< 1	< 5	< 2	< 2	< 5	< 2	< 2	< 4	< 2	< 2	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 2.5	< 5	< 1	< 5	< 2	< 2	< 5	< 2	< 2	< 4	< 2	< 2	< 1	< 1	< 1
Trichloroethene	ug/l	**360**	**370**	**340**	**400**	**340**	**67**	**340**	**370**	**350**	**380**	**390**	**360**	**320**	**350**	**250**	**290**	**320**	**300**
Vinyl Chloride	ug/l	< 5	< 5	< 5	< 2.5	< 5	3.3	< 5	< 2	< 2	< 5	< 2	< 2	< 4	< 2	< 2	< 1	< 1	< 1
Xylenes, Total	ug/l	< 10	< 10	< 10	< 5	< 10	< 2	< 10	< 4	< 4	< 10	< 4	< 4	< 8	< 4	< 4	< 2	< 2	< 2
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/L	**904**	**885**	**777**	**937**	**749**	**140**	**731**	**906**	**818**	**927**	**894**	**807**	**760**	**751**	**583**	**768**	**757**	**724**

March 2020

APPENDIX C
EW-04D (Burn Pit)
Historical VOC Concentrations

Parameter	Unit	Jun-09	Dec-09	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17	Sep-17	Mar-18	Sep-18	Mar-19	Sep-19	Mar-20
1,1,1-Trichloroethane	ug/l	**8.9**	**5.4**	< 10	< 10	< 10	<10	< 10	< 10	**3.5**	**3.2**	**2.8**	**3.6**	**3.2**	**3.4**	**3.0**	**2.6**	**2**	**2**	< 1.0	**1.8**	**1.9**	**1.8**
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1	< 10	< 10	< 10	<10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	<0.036
1,1,2-Trichloroethane	ug/l	**1.1**	< 1	< 10	< 10	< 10	<10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.30J**	**0.30J**	< 1.0	**0.31 J**	< 1.0	**0.27 J**
1,1-Dichloroethane	ug/l	**2.4**	**1.4**	< 10	< 10	< 10	<10	< 10	< 10	< 1	< 1	< 1	**1.1**	< 1	**1.5**	< 1	**1.0**	**0.80J**	**0.79 J**	**0.81 J**	**0.78 J**	**0.85 J**	**0.83**
1,1-Dichloroethene	ug/l	**270**	**120**	**120**	**110**	**150**	**110**	**89**	**82**	**86**	**72**	**67**	**90**	**76**	**83**	**78**	**84.1**	**87.1**	**67.3**	**71.1**	**58.6**	**69.8**	**59**
1,2-Dichloroethane	ug/l	**1.9**	**1.3**	< 10	< 10	< 10	<10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.72 J**	**0.54J**	**0.79 J**	**0.68 J**	**0.68 J**	**0.66 J**	**0.61**
1,2-Dichloroethene, Total	ug/l	< 1	< 1	< 10	< 10	< 10	<10	<10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.69 J**	**0.62J**	**0.64 J**	**0.67 J**	**0.68 J**	**0.64 J**	**0.66**
1,2-Dichloropropane	ug/l	< 1	< 1	< 10	< 10	< 10	<10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	<0.11
2-Butanone	ug/l	< 5	< 5	< 50	< 50	< 50	<50	< 50	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	<0.24
2-Hexanone	ug/l	< 5	< 5	< 50	< 50	< 50	<50	< 50	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	<0.065
4-Methyl-2-pentanone	ug/l	< 5	< 5	< 50	< 50	< 50	<50	< 50	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	<0.078
Acetone	ug/l	< 5	< 5	< 50	< 50	< 50	<50	< 50	< 50	< 2	< 2	**3.0**	< 2	< 2	< 2	< 2	<25	<25	< 25	< 25.0	< 25.0	< 25.0	<0.31
Benzene	ug/l	< 1	< 1	< 10	< 10	< 10	<10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	<0.048
Bromodichloromethane	ug/l	< 1	< 1	< 10	< 10	< 10	<10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	<0.062
Bromoform	ug/l	< 1	< 1	< 10	< 10	< 10	<10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	<0.040
Bromomethane	ug/l	< 1	< 1	< 10	< 10	< 10	<10	< 10	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 1.0	< 1.0	< 1.0	<0.18
Carbon Disulfide	ug/l	< 5	< 1	< 10	< 10	< 10	<10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 1.0	< 1.0	< 1.0	<0.075
Carbon Tetrachloride	ug/l	**2.9**	**1.7**	< 10	< 10	< 10	<10	< 10	< 10	**1.5**	**1.3**	**1.1**	**1.5**	**1.4**	**1.4**	**1.6**	**1.8**	**1.6**	**1.6**	**1.5**	**1.6**	**1.6**	**1.5**
Chlorobenzene	ug/l	< 1	< 1	< 10	< 10	< 10	<10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	<0.062
Chloroethane	ug/l	< 1	< 1	< 10	< 10	< 10	<10	< 10	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1.0	< 1.0	< 1.0	<0.22
Chloroform	ug/l	**190**	**97**	**130**	**110**	**130**	**110**	**100**	**85**	**70**	**70**	**67**	**75**	**65**	**78**	**85**	**73.7**	**63.9**	**63.2**	**66.4**	**56.3**	**61.9**	**57**
Chloromethane	ug/l	< 1	< 1	< 10	< 10	< 10	<10	< 10	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1.0	< 1.0	< 1.0	<0.079
cis-1,3-Dichloropropene	ug/l	< 1	< 1	< 10	< 10	< 10	<10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	<0.079
Dibromochloromethane	ug/l	< 1	< 1	< 10	< 10	< 10	<10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	<0.081
Ethylbenzene	ug/l	< 1	< 1	< 10	< 10	< 10	<10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	<0.061
Methylene Chloride	ug/l	< 2	< 1	< 10	< 10	< 10	**23**	< 10	< 10	--	--	< 1	**--**	--	< 2	< 1	< 2	< 2	< 2	< 2.0	< 2.0	< 2.0	<0.083
Styrene	ug/l	< 1	< 1	< 10	< 10	< 10	<10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	<0.047
Tetrachloroethene	ug/l	**43**	**28**	**26**	**26**	**36**	**28**	**26**	**20**	**23**	**24**	**21**	**25**	**26**	**26**	**25**	**24.6**	**22.6**	**19.7**	**22.6**	**22.5**	**24.9**	**25**
Toluene	ug/l	< 1	< 1	< 10	< 10	< 10	<10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	<0.044
trans-1,3-Dichloropropene	ug/l	< 1	< 1	< 10	< 10	< 10	<10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	<0.070
Trichloroethene	ug/l	**350**	**180**	**210**	**200**	**240**	**190**	**180**	**160**	**130**	**130**	**110**	**140**	**100**	**130**	**150**	**148**	**146**	**125**	**127**	**119**	**127**	**120**
Vinyl Chloride	ug/l	< 1	< 1	< 10	< 10	< 10	<10	< 10	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	<0.097
Xylenes, Total	ug/l	< 2	< 3	< 30	< 30	< 30	<30	< 30	< 30	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	<0.15
1,4-Dioxane	ug/l	--	< 200	< 2000	< 2000	< 2000	<2000	< 2000	< 2000	**25**	**27**	**23**	**31**	**24**	**26**	**22**	< 150	< 150	< 150	< 150	< 150	< 150	**20**
Total VOCs	ug/L	**870**	**435**	**486**	**446**	**556**	**461**	**395**	**347**	**339**	**328**	**295**	**367**	**296**	**349**	**365**	**337**	**325**	**281**	**291**	**262**	**289**	**287**

March 2020

APPENDIX C

EW-32S (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Mar-99	Jun-99	Dec-99	Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jul-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
1,1,1-Trichloroethane	ug/l	**3800**	**3300**	**3400**	**3900**	**3500**	**3300**	**2800**	**2200**	**2300**	**2400**	**1700**	**1200**	**1400**	**1700**	**740**	**530**	**710**	**700**	**660**	**630**
1,1,2,2-Tetrachloroethane	ug/l	< 250	< 250	< 250	< 250	< 250	< 250	< 200	< 200	< 200	< 200	< 200	< 120	< 120	< 120	< 120	< 120	< 120	< 50	< 50	< 25
1,1,2-Trichloroethane	ug/l	< 250	< 250	< 250	< 250	< 250	< 250	< 200	< 200	< 200	< 200	< 200	< 120	< 120	< 120	< 120	< 120	< 120	< 50	< 50	< 25
1,1-Dichloroethane	ug/l	< 250	< 250	< 250	< 250	< 250	< 250	< 200	< 200	< 200	< 200	< 200	< 120	< 120	< 120	< 120	< 120	< 120	< 50	< 50	< 25
1,1-Dichloroethene	ug/l	**2500**	**2300**	**2200**	**2600**	**2500**	**1800**	**1400**	**1100**	**1200**	**1400**	**1300**	**830**	**950**	**990**	**490**	**440**	**680**	**410**	**500**	**320**
1,2-Dichloroethane	ug/l	< 250	< 120	< 250	< 250	< 250	< 250	< 200	< 200	< 200	< 200	< 200	< 120	< 120	< 120	< 120	< 120	< 120	< 50	< 50	< 25
1,2-Dichloroethene, Total	ug/l	< 250	< 250	< 250	< 250	< 250	< 250	< 200	< 200	< 200	< 200	< 200	< 120	< 120	< 120	< 120	< 250	< 250	< 100	< 100	< 50
1,2-Dichloropropane	ug/l	< 250	< 250	< 250	< 250	< 250	< 250	< 200	< 200	< 200	< 200	< 200	< 120	< 120	< 120	< 120	< 120	< 120	< 50	< 50	< 25
2-Butanone	ug/l	< 1200	< 1200	< 1200	< 1200	< 1200	< 1200	< 1000	< 1000	< 1000	< 1000	< 1000	< 620	< 620	< 620	< 620	< 620	< 620	< 500	< 500	< 250
2-Hexanone	ug/l	< 1200	< 1200	< 1200	< 1200	< 1200	< 1200	< 1000	< 1000	< 1000	< 1000	< 1000	< 620	< 620	< 620	< 620	< 620	< 620	< 500	< 500	< 250
4-Methyl-2-pentanone	ug/l	< 1200	< 1200	< 1200	< 1200	< 1200	< 1200	< 1000	< 1000	< 1000	< 1000	< 1000	< 620	< 620	< 620	< 620	< 620	< 620	< 500	< 500	< 250
Acetone	ug/l	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2000	< 2000	< 2000	< 2000	< 2000	< 1200	< 1200	< 1200	< 1200	< 1200	< 1200	< 1200	< 1200	< 620
Benzene	ug/l	< 250	< 250	< 250	< 250	< 250	< 250	< 200	< 200	< 200	< 200	< 200	< 120	< 120	< 120	< 120	< 120	< 120	< 50	< 50	< 25
Bromodichloromethane	ug/l	< 250	< 250	< 250	< 250	< 250	< 250	< 200	< 200	< 200	< 200	< 200	< 120	< 120	< 120	< 120	< 120	< 120	< 50	< 50	< 25
Bromoform	ug/l	< 250	< 250	< 250	< 250	< 250	< 250	< 200	< 200	< 200	< 200	< 200	< 120	< 120	< 120	< 120	< 120	< 120	< 50	< 50	< 25
Bromomethane	ug/l	< 500	< 500	< 500	< 500	< 500	< 500	< 400	< 400	< 400	< 400	< 400	< 250	< 250	< 250	< 250	< 120	< 120	< 50	< 50	< 25
Carbon Disulfide	ug/l	< 250	< 250	< 250	< 250	< 250	< 250	< 200	< 200	< 200	< 200	< 200	< 120	< 120	< 120	< 120	< 120	< 120	< 50	< 50	< 25
Carbon Tetrachloride	ug/l	< 250	< 250	< 250	< 250	< 250	< 250	< 200	< 200	< 200	< 200	< 200	< 120	< 120	< 120	< 120	< 120	< 120	< 50	< 50	< 25
Chlorobenzene	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/l	< 500	< 500	< 500	< 500	< 500	< 500	< 400	< 400	< 400	< 400	< 400	< 250	< 250	< 250	< 250	< 120	< 120	< 50	< 50	< 25
Chloroform	ug/l	< 250	< 250	< 250	< 250	< 250	< 250	< 200	< 200	< 200	< 200	< 200	< 120	< 120	< 120	< 120	< 120	< 120	< 50	< 50	< 25
Chloromethane	ug/l	< 500	< 500	< 500	< 500	< 500	< 500	< 400	< 400	< 400	< 400	< 400	< 250	< 250	< 250	< 250	< 120	< 120	< 50	< 50	< 25
cis-1,3-Dichloropropene	ug/l	< 250	< 250	< 250	< 250	< 250	< 250	< 200	< 200	< 200	< 200	< 200	< 120	< 120	< 120	< 120	< 120	< 120	< 50	< 50	< 25
Dibromochloromethane	ug/l	< 250	< 250	< 250	< 250	< 250	< 250	< 200	< 200	< 200	< 200	< 200	< 120	< 120	< 120	< 120	< 120	< 120	< 50	< 50	< 25
Ethylbenzene	ug/l	< 250	< 250	< 250	< 250	< 250	< 250	< 200	< 200	< 200	< 200	< 200	< 120	< 120	< 120	< 120	< 120	< 120	< 50	< 50	< 25
Methylene Chloride	ug/l	< 250	< 250	< 250	< 250	< 250	< 250	< 200	< 200	< 200	< 200	< 200	< 120	< 120	< 120	< 120	< 120	< 120	< 250	< 250	< 120
Styrene	ug/l	< 250	< 250	< 250	< 250	< 250	< 250	< 200	< 200	< 200	< 200	< 200	< 120	< 120	< 120	< 120	< 120	< 120	< 50	< 50	< 25
Tetrachloroethene	ug/l	**1800**	**1700**	**1900**	**2400**	**2400**	**2100**	**2300**	**1600**	**1600**	**2100**	**1700**	**1600**	**1300**	**2000**	**1400**	**1400**	**1700**	**1400**	**1600**	**1300**
Toluene	ug/l	< 250	< 250	< 250	< 250	< 250	< 250	< 200	< 200	< 200	< 200	< 200	< 120	< 120	< 120	< 120	< 120	< 120	< 50	< 50	< 25
trans-1,3-Dichloropropene	ug/l	< 250	< 250	< 250	< 250	< 250	< 250	< 200	< 200	< 200	< 200	< 200	< 120	< 120	< 120	< 120	< 120	< 120	< 50	< 50	< 25
Trichloroethene	ug/l	**8400**	**7500**	**7400**	**8700**	**8500**	**7200**	**7400**	**6400**	**5400**	**6400**	**5400**	**3900**	**4000**	**4600**	**2300**	**1900**	**2100**	**1800**	**1800**	**1600**
Vinyl Chloride	ug/l	< 500	< 500	< 500	< 500	< 500	< 500	< 400	< 400	< 400	< 400	< 400	< 250	< 250	< 250	< 250	< 120	< 120	< 50	< 50	< 25
Xylenes, Total	ug/l	< 250	< 250	< 500	< 500	< 500	< 500	< 400	< 400	< 400	< 400	< 400	< 250	< 250	< 250	< 250	< 250	< 250	< 100	< 100	< 50
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/L	**16,500**	**14,800**	**14,900**	**17,600**	**16,900**	**14,400**	**13,900**	**11,300**	**10,500**	**12,300**	**10,100**	**7,530**	**7,650**	**9,290**	**4,930**	**4,270**	**5,190**	**4,310**	**4,560**	**3,850**

March 2020

APPENDIX C

EW-32S (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Jun-04	Sep-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09
1,1,1-Trichloroethane	ug/l	**220**	**340**	**290**	**260**	**250**	**480**	**660**	**880**	**700**	**650**	**500**	**610**	**700**	**570**	**500**	**260**	**550**	**500**	**320**	**550**
1,1,2,2-Tetrachloroethane	ug/l	< 25	< 10	< 10	< 10	< 20	< 20	< 25	< 20	< 20	< 20	< 20	< 20	< 50	< 20	< 20	< 20	< 20	< 5	< 10	< 10
1,1,2-Trichloroethane	ug/l	< 25	< 10	< 10	< 10	< 20	< 20	< 25	< 20	< 20	< 20	< 20	< 20	< 50	< 20	< 20	< 20	< 20	< 5	< 10	< 10
1,1-Dichloroethane	ug/l	< 25	< 10	< 10	< 10	< 20	< 20	< 25	< 20	< 20	< 20	< 20	< 20	< 50	< 20	< 20	< 20	< 20	**7.4**	< 10	< 10
1,1-Dichloroethene	ug/l	**230**	**320**	**300**	**250**	**190**	**340**	**300**	**360**	**360**	**530**	**360**	**640**	**610**	**450**	**430**	**180**	**460**	**550**	**380**	**620**
1,2-Dichloroethane	ug/l	< 25	< 10	< 10	< 10	< 20	< 20	< 25	< 20	< 20	< 20	< 20	< 20	< 50	< 20	< 20	< 20	< 20	< 5	< 10	< 10
1,2-Dichloroethene, Total	ug/l	< 50	< 20	< 20	230	< 40	< 40	< 50	< 40	< 40	< 40	< 40	< 40	< 100	< 40	< 40	< 40	< 40	**14**	**12**	**16**
1,2-Dichloropropane	ug/l	< 25	< 10	< 10	< 10	< 20	< 20	< 25	< 20	< 20	< 20	< 20	< 20	< 50	< 20	< 20	< 20	< 20	< 5	< 10	< 10
2-Butanone	ug/l	< 250	< 100	< 100	< 100	< 200	< 200	< 250	< 200	< 200	< 200	< 200	< 200	< 500	< 200	< 200	< 200	< 200	< 25	< 50	< 50
2-Hexanone	ug/l	< 250	< 100	< 100	< 100	< 200	< 200	< 250	< 200	< 200	< 200	< 200	< 200	< 500	< 200	< 200	< 200	< 200	< 25	< 50	< 50
4-Methyl-2-pentanone	ug/l	< 250	< 100	< 100	< 100	< 200	< 200	< 250	< 200	< 200	< 200	< 200	< 200	< 500	< 200	< 200	< 200	< 200	< 25	< 50	< 50
Acetone	ug/l	< 620	< 250	< 250	< 250	< 500	< 500	< 630	< 500	< 500	< 500	< 500	< 500	< 1300	< 500	< 500	< 500	< 500	< 25	< 50	< 50
Benzene	ug/l	< 25	< 10	< 10	< 10	< 20	< 20	< 25	< 20	< 20	< 20	< 20	< 20	< 50	< 20	< 20	< 20	< 20	**6.8**	< 10	< 10
Bromodichloromethane	ug/l	< 25	< 10	< 10	< 10	< 20	< 20	< 25	< 20	< 20	< 20	< 20	< 20	< 50	< 20	< 20	< 20	< 20	< 5	< 10	< 10
Bromoform	ug/l	< 25	< 10	< 10	< 10	< 20	< 20	< 25	< 20	< 20	< 20	< 20	< 20	< 50	< 20	< 20	< 20	< 20	< 5	< 10	< 10
Bromomethane	ug/l	< 25	< 10	< 10	< 10	< 20	< 20	< 25	< 20	< 20	< 20	< 20	< 20	< 50	< 20	< 20	< 20	< 20	< 5	< 10	< 10
Carbon Disulfide	ug/l	< 25	< 10	< 10	< 10	< 20	< 20	< 25	< 40	< 40	< 40	< 40	< 40	< 100	< 40	< 40	< 40	< 40	< 25	< 50	< 50
Carbon Tetrachloride	ug/l	< 25	< 10	< 10	< 10	< 20	< 20	< 25	< 20	< 20	< 20	< 20	< 20	< 50	< 20	< 20	< 20	< 20	< 5	< 10	< 10
Chlorobenzene	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 20	< 20	< 5	< 10	< 10
Chloroethane	ug/l	< 25	< 10	< 10	< 10	< 20	< 20	< 25	< 20	< 20	< 20	< 20	< 20	< 50	< 20	< 20	< 20	< 20	< 5	< 10	< 10
Chloroform	ug/l	< 25	**11**	**12**	**11**	< 20	< 20	< 25	< 20	< 20	< 20	< 20	< 20	< 50	< 20	< 20	< 20	< 20	**15**	**17**	**19**
Chloromethane	ug/l	< 25	< 10	< 10	< 10	< 20	< 20	< 25	< 20	< 20	< 20	< 20	< 20	< 50	< 20	< 20	< 20	< 20	< 5	< 10	< 10
cis-1,3-Dichloropropene	ug/l	< 25	< 10	< 10	< 10	< 20	< 20	< 25	< 20	< 20	< 20	< 20	< 20	< 50	< 20	< 20	< 20	< 20	< 5	< 10	< 10
Dibromochloromethane	ug/l	< 25	< 10	< 10	< 10	< 20	< 20	< 25	< 20	< 20	< 20	< 20	< 20	< 50	< 20	< 20	< 20	< 20	< 5	< 10	< 10
Ethylbenzene	ug/l	< 25	< 10	< 10	< 10	< 20	< 20	< 25	< 20	< 20	< 20	< 20	< 20	< 50	< 20	< 20	< 20	< 20	< 5	< 10	< 10
Methylene Chloride	ug/l	< 120	< 50	< 50	< 10	< 100	< 100	< 130	< 100	< 100	< 100	< 100	< 100	< 250	< 100	< 100	< 100	< 100	< 10	< 20	< 20
Styrene	ug/l	< 25	< 10	< 10	< 10	< 20	< 20	< 25	< 20	< 20	< 20	< 20	< 20	< 50	< 20	< 20	< 20	< 20	< 5	< 10	< 10
Tetrachloroethene	ug/l	**1000**	**1300**	**940**	**900**	**990**	**1400**	**1200**	**1300**	**1400**	**1400**	**1200**	**1400**	**1800**	**1100**	**1400**	**560**	**1400**	**1200**	**960**	**1700**
Toluene	ug/l	< 25	< 10	< 10	< 10	< 20	< 20	< 25	< 20	< 20	< 20	< 20	< 20	< 50	< 20	< 20	< 20	< 20	< 5	< 10	< 10
trans-1,3-Dichloropropene	ug/l	< 25	< 10	< 10	< 10	< 20	< 20	< 25	< 20	< 20	< 20	< 20	< 20	< 50	< 20	< 20	< 20	< 20	< 5	< 10	< 10
Trichloroethene	ug/l	**900**	**1400**	**1200**	**1100**	**1100**	**1700**	**2100**	**2300**	**2200**	**2500**	**2200**	**3000**	**3500**	**2600**	**2800**	**1500**	**3300**	**3000**	**2300**	**3800**
Vinyl Chloride	ug/l	< 25	< 10	< 10	< 10	< 20	< 20	< 25	< 20	< 20	< 20	< 20	< 20	< 50	< 20	< 20	< 20	< 20	< 5	< 10	< 10
Xylenes, Total	ug/l	< 50	< 20	< 20	< 20	< 40	< 40	< 50	< 40	< 40	< 40	< 40	< 40	< 100	< 40	< 40	< 40	< 40	< 10	< 20	< 20
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/L	**2,350**	**3,371**	**2,742**	**2,751**	**2,530**	**3,920**	**4,260**	**4,840**	**4,660**	**5,080**	**4,260**	**5,650**	**6,610**	**4,720**	**5,130**	**2,500**	**5,710**	**5,293**	**3,989**	**6,705**

March 2020

APPENDIX C

EW-32S (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Jun-09	Dec-09	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17	Sep-17	Mar-18	Sep-18
1,1,1-Trichloroethane	ug/l	**820**	**430**	**500**	**540**	**410**	**200**	**270**	**280**	**300**	**230**	**220**	**190**	**230**	**150**	**180**	**105**	**55.2**	**75.3**	**99.3**
1,1,2,2-Tetrachloroethane	ug/l	< 50	< 1	< 200	< 200	< 200	<130	< 200	< 200	< 25	< 25	< 10	< 20	< 10	< 10	< 10	< 12.5	<10	< 10	< 10.0
1,1,2-Trichloroethane	ug/l	< 50	< 1	< 200	< 200	< 200	<130	< 200	< 200	< 25	< 25	< 10	< 20	< 10	< 10	< 10	< 12.5	<10	< 10	< 10.0
1,1-Dichloroethane	ug/l	< 50	**6.7**	< 200	< 200	< 200	<130	< 200	< 200	< 25	< 25	< 10	< 20	< 10	< 10	< 10	< 12.5	<10	< 10	< 10.0
1,1-Dichloroethene	ug/l	**970**	**520**	**520**	**580**	**530**	**330**	**310**	**320**	**390**	**290**	**260**	**220**	**260**	**180**	**220**	**155**	**106**	**103**	**137**
1,2-Dichloroethane	ug/l	< 50	**5.2**	< 200	< 200	< 200	<130	< 200	< 200	< 25	< 25	< 10	< 20	< 10	< 10	< 10	< 12.5	<10	**2.8 J**	< 10.0
1,2-Dichloroethene, Total	ug/l	< 50	**13**	< 200	< 200	< 200	<130	< 200	< 200	< 25	< 25	**15**	< 1	< 10	< 10	< 10	**7.0 J**	**4.0J**	**4.2 J**	< 10.0
1,2-Dichloropropane	ug/l	< 50	< 1	< 200	< 200	< 200	<130	< 200	< 200	< 25	< 25	< 10	< 20	< 10	< 10	< 10	< 12.5	<10	< 10	< 10.0
2-Butanone	ug/l	< 250	< 5	< 1000	< 1000	< 1000	<630	< 1000	< 1000	< 130	< 130	< 50	< 100	< 50	< 50	< 50	< 62.5	<50	< 50	< 50.0
2-Hexanone	ug/l	< 250	< 5	< 1000	< 1000	< 1000	<630	< 1000	< 1000	< 130	< 130	< 50	< 100	< 50	< 50	< 50	< 62.5	<50	< 50	< 50.0
4-Methyl-2-pentanone	ug/l	< 250	< 5	< 1000	< 1000	< 1000	<630	< 1000	< 1000	< 130	< 130	< 50	< 100	< 50	< 50	< 50	< 62.5	<50	< 50	< 50.0
Acetone	ug/l	< 250	< 5	< 1000	< 1000	< 1000	<630	< 1000	< 1000	< 50	< 50	**26**	< 40	< 20	< 20	< 20	< 312	<250	< 250	< 250
Benzene	ug/l	< 50	**7.5**	< 200	< 200	< 200	<130	< 200	< 200	< 25	< 25	< 10	< 20	< 10	< 10	< 10	< 12.5	<10	< 10	< 10.0
Bromodichloromethane	ug/l	< 50	< 1	< 200	< 200	< 200	<130	< 200	< 200	< 25	< 25	< 10	< 20	< 10	< 10	< 10	< 12.5	<10	< 10	< 10.0
Bromoform	ug/l	< 50	< 1	< 200	< 200	< 200	<130	< 200	< 200	< 25	< 25	< 10	< 20	< 10	< 10	< 10	< 12.5	<10	< 10	< 10.0
Bromomethane	ug/l	< 50	< 1	< 200	< 200	< 200	<130	< 200	< 200	< 50	< 50	< 20	< 40	< 20	< 20	< 20	< 62.5	<50	< 50	**3.5 J**
Carbon Disulfide	ug/l	< 250	< 1	< 200	**490**	< 200	<130	< 200	< 200	< 25	< 25	< 10	< 20	< 10	< 10	< 10	< 25	<20	< 20	< 20.0
Carbon Tetrachloride	ug/l	< 50	**1.1**	< 200	< 200	< 200	<130	< 200	< 200	< 25	**36**	< 10	**29**	< 10	**23**	< 10	< 12.5	<10	< 10	< 10.0
Chlorobenzene	ug/l	< 50	< 1	< 200	< 200	< 200	<130	< 200	< 200	< 25	< 25	< 10	< 20	< 10	< 10	< 10	< 12.5	<10	< 10	< 10.0
Chloroethane	ug/l	< 50	< 1	< 200	< 200	< 200	<130	< 200	< 200	< 50	< 50	< 20	< 40	< 20	< 20	< 20	< 12.5	<10	< 10	< 10.0
Chloroform	ug/l	< 50	<120	< 200	< 200	< 200	<130	< 200	< 200	< 25	< 25	< 10	< 20	< 10	**11**	< 10	**6.4 J**	**4.9J**	**6.4 J**	< 10.0
Chloromethane	ug/l	< 50	< 1	< 200	< 200	< 200	<130	< 200	< 200	< 50	< 50	< 20	< 40	< 20	< 20	< 20	< 12.5	<10	< 10	< 10.0
cis-1,3-Dichloropropene	ug/l	< 50	< 1	< 200	< 200	< 200	<130	< 200	< 200	< 25	< 25	< 10	< 20	< 10	< 10	< 10	< 12.5	<10	< 10	< 10.0
Dibromochloromethane	ug/l	< 50	< 1	< 200	< 200	< 200	<130	< 200	< 200	< 25	< 25	< 10	< 20	< 10	< 10	< 10	< 12.5	<10	< 10	< 10.0
Ethylbenzene	ug/l	< 50	< 1	< 200	< 200	< 200	<130	< 200	< 200	< 25	< 25	< 10	< 20	< 10	< 10	< 10	< 12.5	<10	< 10	< 10.0
Methylene Chloride	ug/l	**87**	< 1	< 200	< 200	< 200	**300**	< 200	< 200	--	--	< 10	--	--	< 20	< 10	< 25	<20	< 20	**11.7 J**
Styrene	ug/l	< 50	< 1	< 200	< 200	< 200	<130	< 200	< 200	< 25	< 25	< 10	< 20	< 10	< 10	< 10	< 12.5	<10	< 10	< 10.0
Tetrachloroethene	ug/l	**2200**	**1400**	**1600**	**1600**	**1700**	**1000**	**1200**	**1100**	**1500**	**1500**	**1500**	**1200**	**1500**	**1100**	**1400**	**1190**	**855**	**883**	**1310**
Toluene	ug/l	< 50	< 1	< 200	< 200	< 200	<130	< 200	< 200	< 25	< 25	< 10	< 20	< 10	< 10	< 10	< 12.5	<10	< 10	< 10.0
trans-1,3-Dichloropropene	ug/l	< 50	< 1	< 200	< 200	< 200	<130	< 200	< 200	< 25	< 25	< 10	< 20	< 10	< 10	< 10	< 12.5	<10	< 10	< 10.0
Trichloroethene	ug/l	**6100**	**3500**	**4500**	**4800**	**4600**	**2500**	**3200**	**3000**	**3900**	**2900**	**2500**	**2300**	**2300**	**2100**	**3100**	**1830**	**1330**	**1320**	**1850**
Vinyl Chloride	ug/l	< 50	< 1	< 200	< 200	< 200	<130	< 200	< 200	< 50	< 50	< 20	< 40	< 20	< 20	< 20	< 12.5	<10	< 10	< 10.0
Xylenes, Total	ug/l	< 100	**8.8**	< 600	< 600	< 600	<380	< 600	< 600	< 75	< 75	< 30	< 60	< 30	< 30	< 30	< 12.5	**2.6J**	< 10	**13.7**
1,4-Dioxane	ug/l	--	**800**	<40000	< 40000	< 40000	<25000	< 40000	< 40000	**890**	**1000**	**770**	**690**	**760**	**830**	**810**	< 1880	<1550	< 1500	< 1500
Total VOCs	ug/L	**10,177**	**6,692**	**7,120**	**8,010**	**7,240**	**4,330**	**4,980**	**4,700**	**6,980**	**5,956**	**5,291**	**4,629**	**5,050**	**4,394**	**5,710**	**3,280**	**2,358**	**2,395**	**3,425**

APPENDIX C

EW-32S (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Mar-19	Sep-19	Mar-20
1,1,1-Trichloroethane	ug/l	**108**	**67.8**	**110**
1,1,2,2-Tetrachloroethane	ug/l	< 10.0	< 10.0	<3.6
1,1,2-Trichloroethane	ug/l	< 10.0	< 10.0	<6.6
1,1-Dichloroethane	ug/l	< 10.0	< 10.0	<8.3
1,1-Dichloroethene	ug/l	**138**	**106**	**180**
1,2-Dichloroethane	ug/l	< 10.0	< 10.0	<6.6
1,2-Dichloroethene, Total	ug/l	**9.9 J**	**3.9 J**	<5.6
1,2-Dichloropropane	ug/l	< 10.0	< 10.0	<11
2-Butanone	ug/l	< 50.0	< 50.0	<24
2-Hexanone	ug/l	< 50.0	< 50.0	<6.5
4-Methyl-2-pentanone	ug/l	< 50.0	< 50.0	<7.8
Acetone	ug/l	< 250	< 250	<31
Benzene	ug/l	**2.8 J**	**2.8 J**	<4.8
Bromodichloromethane	ug/l	< 10.0	< 10.0	<6.2
Bromoform	ug/l	< 10.0	< 10.0	<4.0
Bromomethane	ug/l	<20.0	<20.0	<18
Carbon Disulfide	ug/l	< 20.0	< 20.0	<7.5
Carbon Tetrachloride	ug/l	< 10.0	< 10.0	<11
Chlorobenzene	ug/l	< 10.0	< 10.0	<6.2
Chloroethane	ug/l	< 10.0	< 10.0	<22
Chloroform	ug/l	< 10.0	< 10.0	<7.6
Chloromethane	ug/l	< 10.0	< 10.0	<7.9
cis-1,3-Dichloropropene	ug/l	< 10.0	< 10.0	<7.9
Dibromochloromethane	ug/l	< 10.0	< 10.0	<8.1
Ethylbenzene	ug/l	< 10.0	< 10.0	<6.1
Methylene Chloride	ug/l	**61.7**	< 20	<8.3
Styrene	ug/l	< 10.0	< 10.0	<4.7
Tetrachloroethene	ug/l	**1170**	**899**	**1400**
Toluene	ug/l	< 10.0	< 10.0	<4.4
trans-1,3-Dichloropropene	ug/l	< 10.0	< 10.0	<7.0
Trichloroethene	ug/l	**1930**	**1630**	**2500**
Vinyl Chloride	ug/l	< 10.0	< 10.0	<9.7
Xylenes, Total	ug/l	<10.0	<10.0	<15
1,4-Dioxane	ug/l	< 1500	< 1500	**530**

Total VOCs	ug/L	**3,420**	**2,710**	**4,720**

APPENDIX C
OW-5S (Burn Pit)
Historical VOC Concentrations

Parameter	Unit	Mar-99	Jun-99	Dec-99	Mar-00	Jun-00	Sep-03	Dec-03	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17	Sep-17	Mar-18	Oct-18	Mar-19	Sep-19	Mar-20
1,1,1-Trichloroethane	ug/l	**4900**	**2300**	**1500**	**1800**	**640**	**370**	**600**	**280**	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	**140**	Dry	Dry	Dry	**82.9**	**72.5**	**77.7**	**54**
1,1,2,2-Tetrachloroethane	ug/l	< 250	< 120	< 120	< 120	< 50	< 20	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 2.5	Dry	Dry	Dry	< 4.0	< 4.0	<5.0	<0.36
1,1,2-Trichloroethane	ug/l	< 250	< 120	< 120	< 120	< 50	< 20	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 2.5	Dry	Dry	Dry	< 4.0	< 4.0	<5.0	<0.66
1,1-Dichloroethane	ug/l	< 250	< 120	< 120	< 120	< 50	< 20	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 2.5	Dry	Dry	Dry	< 4.0	< 4.0	<5.0	<0.83
1,1-Dichloroethene	ug/l	**1800**	**880**	**740**	**990**	**330**	**150**	**270**	**120**	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	**52**	Dry	Dry	Dry	**35.8**	**27.9**	**27.1**	**21**
1,2-Dichloroethane	ug/l	< 250	< 120	< 120	< 120	< 50	< 20	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 2.5	Dry	Dry	Dry	< 4.0	< 4.0	<5.0	<0.66
1,2-Dichloroethene, Total	ug/l	< 250	< 120	< 120	< 120	< 50	< 40	< 40	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 2.5	Dry	Dry	Dry	< 4.0	< 4.0	<5.0	<0.94
1,2-Dichloropropane	ug/l	< 250	< 120	< 120	< 120	< 50	< 20	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 13	Dry	Dry	Dry	< 4.0	< 4.0	<5.0	<1.1
2-Butanone	ug/l	< 1200	< 620	< 620	< 620	< 250	< 200	< 200	< 250	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 13	Dry	Dry	Dry	< 20.0	< 20.0	< 25.0	<2.4
2-Hexanone	ug/l	< 1200	< 620	< 620	< 620	< 250	< 200	< 200	< 250	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 13	Dry	Dry	Dry	< 20.0	< 20.0	< 25.0	<0.65
4-Methyl-2-pentanone	ug/l	< 1200	< 620	< 620	< 620	< 250	< 200	< 200	< 250	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 5	Dry	Dry	Dry	< 20.0	< 20.0	< 25.0	<0.78
Acetone	ug/l	< 2500	< 1200	< 1200	< 1200	< 500	< 500	< 500	< 250	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 2.5	Dry	Dry	Dry	< 100	< 100	< 125.0	<3.1
Benzene	ug/l	< 250	< 120	< 120	< 120	< 50	< 20	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 2.5	Dry	Dry	Dry	< 4.0	< 4.0	<5.0	<0.48
Bromodichloromethane	ug/l	< 250	< 120	< 120	< 120	< 50	< 20	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 2.5	Dry	Dry	Dry	< 4.0	< 4.0	<5.0	<0.62
Bromoform	ug/l	< 250	< 120	< 120	< 120	< 50	< 20	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 5	Dry	Dry	Dry	< 4.0	< 4.0	<5.0	<0.40
Bromomethane	ug/l	< 500	< 250	< 250	< 250	< 100	< 20	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 2.5	Dry	Dry	Dry	**1.6 J**	<8.0	<5.0	<1.8
Carbon Disulfide	ug/l	< 250	< 120	< 120	< 120	< 50	< 20	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 2.5	Dry	Dry	Dry	< 8.0	< 8.0	<5.0	<0.75
Carbon Tetrachloride	ug/l	< 250	< 120	< 120	< 120	< 50	**56**	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 2.5	Dry	Dry	Dry	< 4.0	< 4.0	<5.0	<1.1
Chlorobenzene	ug/l	< 250	< 120	< 120	< 120	< 50	< 20	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 5	Dry	Dry	Dry	< 4.0	< 4.0	<5.0	<0.62
Chloroethane	ug/l	< 500	< 250	< 250	< 250	< 100	< 20	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 2.5	Dry	Dry	Dry	< 4.0	< 4.0	<5.0	<2.2
Chloroform	ug/l	< 250	< 120	< 120	< 120	< 50	< 20	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 5	Dry	Dry	Dry	< 4.0	< 4.0	<5.0	<0.76
Chloromethane	ug/l	< 500	< 250	< 250	< 250	< 100	< 20	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 2.5	Dry	Dry	Dry	**0.47 J**	<4.0	<5.0	<0.79
cis-1,3-Dichloropropene	ug/l	< 250	< 120	< 120	< 120	< 50	< 20	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 2.5	Dry	Dry	Dry	< 4.0	< 4.0	<5.0	<0.79
Dibromochloromethane	ug/l	< 250	< 120	< 120	< 120	< 50	< 20	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 2.5	Dry	Dry	Dry	< 4.0	< 4.0	<5.0	<1.1
Ethylbenzene	ug/l	< 250	< 120	< 120	< 120	< 50	< 20	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 2.5	Dry	Dry	Dry	< 4.0	< 4.0	<5.0	<0.61
Methylene Chloride	ug/l	< 250	< 120	< 120	< 120	< 50	< 100	< 100	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 2.5	Dry	Dry	Dry	< 8.0	**17.2 J**	<25.0	<0.83
Styrene	ug/l	< 250	< 120	< 120	< 120	< 50	< 20	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 2.5	Dry	Dry	Dry	< 4.0	< 4.0	< 5.0	<0.47
Tetrachloroethene	ug/l	**860**	**490**	**490**	**460**	**160**	**93**	**180**	**180**	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	**190**	Dry	Dry	Dry	**168**	**162**	**208**	**150**
Toluene	ug/l	< 250	< 120	< 120	< 120	< 50	< 20	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 2.5	Dry	Dry	Dry	< 4.0	< 4.0	< 5.0	<0.44
trans-1,3-Dichloropropene	ug/l	< 250	< 120	< 120	< 120	< 50	< 20	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 2.5	Dry	Dry	Dry	< 4.0	< 4.0	< 5.0	<0.70
Trichloroethene	ug/l	**6300**	**3200**	**2200**	**2700**	**960**	**460**	**900**	**650**	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	**600**	Dry	Dry	Dry	**541**	**494**	**637**	**360**
Vinyl Chloride	ug/l	< 500	< 250	< 250	< 250	< 100	< 20	< 20	< 50	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 5	Dry	Dry	Dry	< 4.0	< 4.0	< 5.0	<0.97
Xylenes, Total	ug/l	< 250	< 120	< 250	< 250	< 100	< 40	< 40	< 150	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 7.5	Dry	Dry	Dry	< 4.0	< 4.0	< 5.0	<1.5
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	<10000	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	< 5	Dry	Dry	Dry	< 600	< 600	<750	<0.14
Total VOCs	ug/L	**13,860**	**6,870**	**4,930**	**5,950**	**2,090**	**1,129**	**1,950**	**1,230**	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	**982**	Dry	Dry	Dry	**830**	**774**	**950**	**585**

APPENDIX C

OW-10D (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Mar-18	Oct-18	Mar-19	Mar-20
1,1,1-Trichloroethane	ug/l	< 1	< 1	< 1.0	<0.061
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1	< 1.0	<0.036
1,1,2-Trichloroethane	ug/l	< 1	< 1	< 1.0	<0.066
1,1-Dichloroethane	ug/l	< 1	< 1	< 1.0	<0.083
1,1-Dichloroethene	ug/l	**5.9**	**6.7**	**5.9**	**5.9**
1,2-Dichloroethane	ug/l	< 1	< 1	< 1.0	<0.066
1,2-Dichloroethene, Total	ug/l	< 1	< 1	< 1.0	<0.056
1,2-Dichloropropane	ug/l	< 1	< 1	< 1.0	<0.11
1,4-Dioxane	ug/l	< 150	< 150	< 150	<0.14
2-Butanone	ug/l	< 5	< 5	< 5.0	<0.24
2-Hexanone	ug/l	< 5	< 5	< 5.0	<0.065
4-Methyl-2-pentanone	ug/l	< 5	< 5	< 5.0	<0.078
Acetone	ug/l	< 25	< 25	**38.0**	<0.31
Benzene	ug/l	< 1	< 1	< 1.0	<0.048
Bromodichloromethane	ug/l	< 1	< 1	< 1.0	<0.062
Bromoform	ug/l	< 1	< 1	< 1.0	<0.040
Bromomethane	ug/l	< 5	**0.30 J**	< 1.0	<0.18
Carbon Disulfide	ug/l	< 2	< 2	< 2.0	<0.075
Carbon Tetrachloride	ug/l	< 1	< 1	< 1.0	<0.11
Chlorobenzene	ug/l	< 1	< 1	< 1.0	<0.062
Chloroethane	ug/l	< 1	< 1	< 1.0	<0.22
Chloroform	ug/l	< 1	< 1	< 1.0	0.08
Chloromethane	ug/l	< 1	**0.16 J**	< 1.0	<0.079
cis-1,3-Dichloropropene	ug/l	< 1	< 1	< 1.0	<0.079
Dibromochloromethane	ug/l	< 1	< 1	< 1.0	<0.081
Dichlorodifluoromethane	ug/l	**0.45 J**	**0.51 J**	< 1.0	**0.82 J**
Ethylbenzene	ug/l	< 1	< 1	< 1.0	<0.061
Methylene Chloride	ug/l	< 2	< 2	< 2.0	<0.083
Styrene	ug/l	< 1	< 1	< 1.0	<0.047
Tetrachloroethene	ug/l	< 1	< 1	< 1.0	**0.29 J**
Toluene	ug/l	< 1	< 1	< 1.0	<0.044
trans-1,3-Dichloropropene	ug/l	< 1	< 1	< 1.0	<0.070
Trichloroethene	ug/l	**5.8**	**4.8**	**4.6**	**5.9**
Vinyl Chloride	ug/l	< 1	< 1	< 1.0	<0.097
Xylenes, Total	ug/l	< 1	< 1	< 1.0	<0.15
Total VOCs	ug/L	**12**	**12.47**	**48.50**	**12.99**

March 2020

APPENDIX C

OW-24S (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Mar-99	Jun-99	Dec-99	Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jul-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
1,1,1-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
1,1-Dichloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**1.9**	**2.0**	**1.4**
1,2-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
1,2-Dichloroethene, Total	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 2	< 2	< 2
1,2-Dichloropropane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
2-Butanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10
2-Hexanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10
4-Methyl-2-pentanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10
Acetone	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 25	< 25	< 25
Benzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Bromomethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 1	< 1	< 1
Carbon Disulfide	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Carbon Tetrachloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**1.2**	**1.3**	**1.7**
Chlorobenzene	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 1	< 1	< 1
Chloroform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**4.7**	**5.4**	**4.2**
Chloromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 1	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Ethylbenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Methylene Chloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Tetrachloroethene	ug/l	< 5	**7.3**	**9.5**	**7.0**	**8.0**	**8.6**	**9.9**	**9.1**	**8.7**	**7.4**	**5.8**	**9.3**	**5.1**	**5.3**	**7.6**	**5.0**	< 5	**3.4**	**4.8**	**4.3**
Toluene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Trichloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**1.0**	< 1	< 1
Vinyl Chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 1	< 1	< 1
Xylenes, Total	ug/l	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 2	< 2
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/L	0	**7**	**10**	**7**	**8**	**9**	**10**	**9**	**9**	**7**	**6**	**9**	**5**	**5**	**8**	**5**	**0**	**12**	**14**	**12**

March 2020

APPENDIX C

OW-24S (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Jun-04	Sep-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09
1,1,1-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	ug/l	**1.2**	< 1	**1.8**	**1.7**	**1.6**	**1.1**	**1.3**	< 1	< 1	**1.1**	**1.7**	< 1	< 1	**1.8**	**1.2**	< 1	**1.3**	**1.2**	< 1	**1.0**
1,2-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene, Total	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5
2-Hexanone	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5
4-Methyl-2-pentanone	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5
Acetone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 5	< 5	< 5
Benzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	**1.1**	**1.0**	**1.1**	< 1	< 1	< 1	**1.1**	< 1	< 1	< 1	< 1	< 1	< 1	**1**	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 1	< 1	< 1	< 1	< 1
Chloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/l	**5.9**	**4.3**	**4.8**	**4.9**	**4.8**	**4.9**	**5.2**	**4.4**	**4.4**	**4.6**	**4.7**	**6.1**	**5.3**	**5.8**	**5.4**	< 1	**6.6**	**5.3**	**5.5**	**6.8**
Chloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.8**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/l	< 5	< 5	< 5	< 1	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2
Styrene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/l	**6.7**	**4.3**	**4.9**	**4.3**	**4.4**	**3.9**	4.6	**3.9**	**3.4**	**3.9**	**4.0**	**3.9**	**3.9**	**3.8**	**4.3**	**3.1**	**3.2**	**3.0**	**2.8**	**3.0**
Toluene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.1 U**	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/l	**1.5**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylenes, Total	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/L	**16**	**10**	**13**	**11**	**11**	**10**	**12**	**8**	**8**	**11**	**10**	**10**	**9**	**12**	**11**	**3**	**11**	**10**	**8.3**	**10.8**

March 2020

APPENDIX C

OW-24S (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Jun-09	Dec-09	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17	Sep-17	Mar-18	Oct-18	Mar-19
1,1,1-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 1	< 1	< 1	< 1	< 1	< 1	Dry	Dry	Dry	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 1	< 1	< 1	< 1	< 1	< 1	Dry	Dry	Dry	< 1.0	< 1.0
1,1,2-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 1	< 1	< 1	< 1	< 1	< 1	Dry	Dry	Dry	< 1.0	< 1.0
1,1-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 1	< 1	< 1	< 1	< 1	< 1	Dry	Dry	Dry	< 1.0	< 1.0
1,1-Dichloroethene	ug/l	**1.3**	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 1	< 1	< 1	< 1	< 1	< 1	Dry	Dry	Dry	< 1.0	< 1.0
1,2-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 1	< 1	< 1	< 1	< 1	< 1	Dry	Dry	Dry	< 1.0	< 1.0
1,2-Dichloroethene, Total	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 1	<1	< 1	< 1	< 1	< 1	Dry	Dry	Dry	< 1.0	< 1.0
1,2-Dichloropropane	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 1	< 1	< 1	< 1	< 1	< 1	Dry	Dry	Dry	< 1.0	< 1.0
2-Butanone	ug/l	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	Dry	< 5	< 5	< 5	< 5	< 5	< 5	Dry	Dry	Dry	< 5.0	< 5.0
2-Hexanone	ug/l	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	Dry	< 5	< 5	< 5	< 5	< 5	< 5	Dry	Dry	Dry	< 5.0	< 5.0
4-Methyl-2-pentanone	ug/l	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	Dry	< 5	< 5	< 5	< 5	< 5	< 5	Dry	Dry	Dry	< 5.0	< 5.0
Acetone	ug/l	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	Dry	< 2	**3.3**	< 2	**2.9**	< 2	< 2	Dry	Dry	Dry	< 25	< 25
Benzene	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 1	< 1	< 1	< 1	< 1	< 1	Dry	Dry	Dry	< 1.0	< 1.0
Bromodichloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 1	< 1	< 1	< 1	< 1	< 1	Dry	Dry	Dry	< 1.0	< 1.0
Bromoform	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 1	< 1	< 1	< 1	< 1	< 1	Dry	Dry	Dry	< 1.0	< 1.0
Bromomethane	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 2	< 2	< 2	< 2	< 2	< 2	Dry	Dry	Dry	< 5.0	< 5.0
Carbon Disulfide	ug/l	< 5	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 1	< 1	< 1	< 1	< 1	< 1	Dry	Dry	Dry	< 2.0	< 2.0
Carbon Tetrachloride	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 1	< 1	< 1	< 1	< 1	< 1	Dry	Dry	Dry	< 1.0	< 1.0
Chlorobenzene	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 1	< 1	< 1	< 1	< 1	< 1	Dry	Dry	Dry	< 1.0	< 1.0
Chloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 2	< 2	< 2	< 2	< 2	< 2	Dry	Dry	Dry	< 1.0	< 1.0
Chloroform	ug/l	**8.9**	**7.1**	**8.9**	**7.8**	**7.3**	**5.1**	**4.9**	**4.3**	Dry	**5.7**	**5.8**	**5.8**	**5.1**	**4.2**	**5.6**	Dry	Dry	Dry	**1.8**	< 1.0
Chloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 2	< 2	< 2	< 2	< 2	< 2	Dry	Dry	Dry	< 1.0	< 1.0
cis-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 1	< 1	< 1	< 1	< 1	< 1	Dry	Dry	Dry	< 1.0	< 1.0
Dibromochloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 1	< 1	< 1	< 1	< 1	< 1	Dry	Dry	Dry	< 1.0	< 1.0
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 1	< 1	< 1	< 1	< 1	< 1	Dry	Dry	Dry	< 1.0	< 1.0
Methylene Chloride	ug/l	**2.7**	< 1	< 1	< 1	< 1	<1	<1	< 1	Dry	--	< 1	--	--	< 2	< 1	Dry	Dry	Dry	< 2.0	< 2.0
Styrene	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 1	< 1	< 1	< 1	< 1	< 1	Dry	Dry	Dry	< 1.0	< 1.0
Tetrachloroethene	ug/l	**2.8**	**2.7**	**2.6**	**2.8**	**2.5**	**4.0**	**3.7**	**3**	Dry	**2.0**	**2.5**	**2.5**	**2.7**	**3.3**	**1.8**	Dry	Dry	Dry	**2.6**	< 1.0
Toluene	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 1	< 1	< 1	< 1	< 1	< 1	Dry	Dry	Dry	< 1.0	< 1.0
trans-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 1	< 1	< 1	< 1	< 1	< 1	Dry	Dry	Dry	< 1.0	< 1.0
Trichloroethene	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	< 1	< 1	< 1	< 1	< 1	< 1	Dry	Dry	Dry	< 1.0	< 1.0
Vinyl Chloride	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	Dry	<2	< 2	< 2	< 2	< 2	< 2	Dry	Dry	Dry	< 1.0	< 1.0
Xylenes, Total	ug/l	< 2	< 3	< 3	< 3	< 3	<3	< 3	< 3	Dry	< 3	< 3	< 3	< 3	< 3	< 3	Dry	Dry	Dry	< 1.0	< 1.0
1,4-Dioxane	ug/l	--	< 200	< 200	< 200	< 200	<200	< 200	< 200	Dry	**2.7**	**8**	**4.5**	**1.4**	**4.2**	< 5	Dry	Dry	Dry	< 150	< 150
Total VOCs	ug/L	**15.7**	**9.8**	**11.5**	**10.6**	**9.8**	**9.1**	**8.6**	**7.3**	DRY	**10.4**	**19.6**	**12.8**	**12.1**	**11.7**	**7.4**	Dry	Dry	Dry	**4.4**	**0**

APPENDIX C

OW-24S (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Mar-20
1,1,1-Trichloroethane	ug/l	<0.061
1,1,2,2-Tetrachloroethane	ug/l	<0.036
1,1,2-Trichloroethane	ug/l	<0.066
1,1-Dichloroethane	ug/l	<0.083
1,1-Dichloroethene	ug/l	<0.083
1,2-Dichloroethane	ug/l	<0.066
1,2-Dichloroethene, Total	ug/l	<0.094
1,2-Dichloropropane	ug/l	<0.11
2-Butanone	ug/l	<0.24
2-Hexanone	ug/l	<0.065
4-Methyl-2-pentanone	ug/l	<0.078
Acetone	ug/l	**6.9**
Benzene	ug/l	<0.048
Bromodichloromethane	ug/l	<0.062
Bromoform	ug/l	<0.040
Bromomethane	ug/l	<0.18
Carbon Disulfide	ug/l	<0.075
Carbon Tetrachloride	ug/l	<0.11
Chlorobenzene	ug/l	<0.062
Chloroethane	ug/l	<0.22
Chloroform	ug/l	**1.3**
Chloromethane	ug/l	<0.079
cis-1,3-Dichloropropene	ug/l	<0.079
Dibromochloromethane	ug/l	<0.081
Ethylbenzene	ug/l	<0.061
Methylene Chloride	ug/l	<0.083
Styrene	ug/l	<0.047
Tetrachloroethene	ug/l	**0.31 J**
Toluene	ug/l	<0.044
trans-1,3-Dichloropropene	ug/l	<0.070
Trichloroethene	ug/l	<0.078
Vinyl Chloride	ug/l	<0.097
Xylenes, Total	ug/l	<0.15
1,4-Dioxane	ug/l	<0.14
Total VOCs	ug/L	**8.51**

March 2020

APPENDIX C

OW-25S (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Mar-99	Jun-99	Dec-99	Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jul-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Jun-04
1,1,1-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**1.6**	**1.7**	**1.7**
1,1-Dichloroethene	ug/l	**33**	**30**	**31**	**34**	**23**	**18**	**14**	**13**	**19**	**26**	**31**	**29**	**23**	**32**	**28**	**31**	**31**	**31**	**32**	**36**
1,2-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
1,2-Dichloroethene, Total	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 2	< 2	< 2
1,2-Dichloropropane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
2-Butanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10
2-Hexanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10
4-Methyl-2-pentanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10
Acetone	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 25	< 25	< 25
Benzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Bromomethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 1	< 1	< 1
Carbon Disulfide	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Carbon Tetrachloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Chlorobenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 1	< 1	< 1
Chloroform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	**1.0**	**1.2**
Chloromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 1	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Ethylbenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Methylene Chloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Tetrachloroethene	ug/l	**5.6**	**6.5**	**7.6**	**6.2**	< 5	**5.5**	< 5	< 5	< 5	**5.2**	**5.0**	**6.0**	< 5	< 5	**6.4**	**6.8**	< 5	**5.6**	**5.8**	**6.6**
Toluene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Trichloroethene	ug/l	**22**	**22**	**21**	**19**	**15**	**19**	**14**	**11**	**16**	**19**	**20**	**21**	**17**	**24**	**28**	**29**	**24**	**29**	**29**	**32**
Vinyl Chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 1	< 1	< 1
Xylenes, Total	ug/l	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 2	< 2
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/L	**61**	**59**	**60**	**59**	**38**	**43**	**28**	**24**	**35**	**50**	**56**	**56**	**40**	**56**	**62**	**67**	**55**	**67**	**70**	**78**

March 2020

APPENDIX C

OW-25S (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Dec-04	Jun-05	Dec-05	Jun-06	Dec-06	Jun-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Dec-09	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12
1,1,1-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 25	< 2	< 1	<1	<1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 25	< 2	< 1	<1	<1	< 1
1,1,2-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 25	< 2	< 1	<1	<1	< 1
1,1-Dichloroethane	ug/l	**1.9**	**1.5**	**1.5**	**1.7**	**2.6**	**2.4**	**3.3**	**3.1**	**3.4**	**2.9**	**4.0**	**2.7**	**3.3**	**2.5**	< 25	**2.0**	**1.9**	**2.0**	**2.2**	**1.9**
1,1-Dichloroethene	ug/l	**44**	**28**	**27**	**31**	**32**	**34**	**31**	**31**	**33**	**30**	**30**	**32**	**37**	**28**	< 25	**27**	**30**	**26**	**25**	**21**
1,2-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 25	< 2	< 1	<1	<1	< 1
1,2-Dichloroethene, Total	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 25	< 2	< 1	<1	<1	< 1
1,2-Dichloropropane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 25	< 2	< 1	<1	<1	< 1
2-Butanone	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 120	< 10	< 5	<5	<5	< 5
2-Hexanone	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 120	< 10	< 5	<5	<5	< 5
4-Methyl-2-pentanone	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 120	< 10	< 5	<5	<5	< 5
Acetone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 120	< 10	< 5	<5	<5	< 5
Benzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 25	< 2	< 1	<1	<1	< 1
Bromodichloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 25	< 2	< 1	<1	<1	< 1
Bromoform	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 25	< 2	< 1	<1	<1	< 1
Bromomethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**46**	< 1	< 1	< 1	< 1	< 1	< 25	< 2	< 1	<1	<1	< 1
Carbon Disulfide	ug/l	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5	< 1	**430**	< 2	< 1	<1	<1	< 1
Carbon Tetrachloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 25	< 2	< 1	<1	<1	< 1
Chlorobenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 25	< 2	< 1	<1	<1	< 1
Chloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 25	< 2	< 1	<1	<1	< 1
Chloroform	ug/l	**1.4**	**1.1**	**1.5**	**1.1**	**2.0**	**1.3**	**2.3**	**2.3**	**1.9**	**1.7**	**2.0**	**1.7**	**1.7**	**1.6**	< 25	< 2	**1.2**	**1.4**	**1.4**	**1.7**
Chloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 25	< 2	< 1	<1	<1	< 1
cis-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 25	< 2	< 1	<1	<1	< 1
Dibromochloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 25	< 2	< 1	<1	<1	< 1
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 25	< 2	< 1	<1	<1	< 1
Methylene Chloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2	**2.4**	< 1	< 25	< 2	< 1	<1	<1	< 1
Styrene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 25	< 2	< 1	<1	<1	< 1
Tetrachloroethene	ug/l	**7.8**	**7.0**	**6.3**	**7.4**	**7.8**	**8.2**	**8.3**	**8**	**7.5**	**6.8**	**6.7**	**7.7**	**6.8**	**6.6**	< 25	**7.2**	**8.5**	**8.5**	**7.7**	**7.8**
Toluene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 25	< 2	< 1	<1	<1	< 1
trans-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 25	< 2	< 1	<1	<1	< 1
Trichloroethene	ug/l	**40**	**36**	**31**	**37**	**34**	**42**	**38**	**37**	**37**	**31**	**38**	**40**	**39**	**36**	**29**	**44**	**48**	**48**	**35**	**35**
Vinyl Chloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 25	< 2	< 1	<1	<1	< 1
Xylenes, Total	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 3	< 75	< 6	< 3	<3	<3	< 3
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	< 200	< 5000	< 400	< 200	<200	<200	< 200
Total VOCs	ug/L	**95**	**74**	**67**	**78**	**78**	**88**	**83**	**81**	**129**	**72**	**81**	**84**	**90**	**75**	**459**	**80**	**90**	**86**	**71**	**67**

APPENDIX C

OW-25S (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Mar-13	Sep-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17	Mar-18	Mar-19	Mar-20
1,1,1-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	**0.40 J**
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	<0.036
1,1,2-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	**0.25 J**
1,1-Dichloroethane	ug/l	**2.2**	**1.7**	**1.1**	**1.5**	**1.3**	**1.5**	< 1	**1.5**	**1.6**	**0.92 J**	**2.3**
1,1-Dichloroethene	ug/l	**18**	**19**	14	**16**	**17**	**21**	**16**	**21.3**	**18.2**	**11.3**	**18**
1,2-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 1.0	<0.066
1,2-Dichloroethene, Total	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.21 J**	**0.25 J**	< 1.0	**0.41 J**
1,2-Dichloropropane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1.0	<0.11
2-Butanone	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	<0.24
2-Hexanone	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	<0.065
4-Methyl-2-pentanone	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 5	< 5	< 5.0	<0.078
Acetone	ug/l	**2.0**	< 2	5	< 2	**3.0**	< 2	< 1	< 25	< 25	< 25	**3.6 J**
Benzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	<0.048
Bromodichloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	<0.062
Bromoform	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 1	< 1	< 1.0	<0.040
Bromomethane	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 5	< 5	< 5.0	<0.18
Carbon Disulfide	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2.0	<0.075
Carbon Tetrachloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	<0.11
Chlorobenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 1	< 1	< 1.0	<0.062
Chloroethane	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1.0	<0.22
Chloroform	ug/l	**1.6**	1.1	< 1	< 1	< 1	< 1	< 2	**1.1**	**0.92 J**	< 5.0	**2.0**
Chloromethane	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1.0	<0.079
cis-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	<0.079
Dibromochloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	<0.081
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	<0.061
Methylene Chloride	ug/l	--	--	< 1	--	--	< 2	< 1	< 2	< 2	< 2.0	<0.083
Styrene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	<0.047
Tetrachloroethene	ug/l	**8.0**	**7.1**	4.8	**5.3**	**6.3**	**7.3**	**5.4**	**7.3**	**8**	**4.8**	**9.8**
Toluene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	<0.044
trans-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	<0.070
Trichloroethene	ug/l	**39**	**35**	26	**31**	**30**	**41**	**34**	**45.3**	**55.2**	**33.2**	**81**
Vinyl Chloride	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2.0	<0.097
Xylenes, Total	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 1	< 1.0	<0.15
1,4-Dioxane	ug/l	**12**	**7.4**	**2.6**	**5.2**	**5**	**6.6**	< 5	< 150	< 150	< 150	**11**
Total VOCs	ug/L	**83**	**71**	**54**	**59**	**63**	**77**	**55**	**77**	**84**	**50**	**129**

March 2020

APPENDIX C

OW-26S (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Mar-99	Jun-99	Dec-99	Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jul-02	Sep-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04	Jun-04
1,1,1-Trichloroethane	ug/l	**24**	**27**	**83**	**69**	**97**	**160**	**150**	**200**	**240**	**250**	**180**	**190**	**280**	**230**	**210**	**160**	**120**	**120**	**150**	**60**
1,1,2,2-Tetrachloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 4	< 5	< 2	< 2
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 4	< 5	< 2	< 2
1,1-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 4	< 5	< 2	< 2
1,1-Dichloroethene	ug/l	**79**	**96**	**91**	**92**	**68**	**78**	**82**	**82**	**79**	**90**	**75**	**68**	**100**	**77**	**89**	**98**	**53**	**85**	**59**	**65**
1,2-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 4	< 5	< 2	< 2
1,2-Dichloroethene, Total	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 8	< 10	< 4	< 4
1,2-Dichloropropane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 4	< 5	< 2	< 2
2-Butanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 40	< 50	< 20	< 20
2-Hexanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 40	< 50	< 20	< 20
4-Methyl-2-pentanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 40	< 50	< 20	< 20
Acetone	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 120	< 50	< 50
Benzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 4	< 5	< 2	< 2
Bromodichloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 4	< 5	< 2	< 2
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 4	< 5	< 2	< 2
Bromomethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 4	< 5	< 2	< 2
Carbon Disulfide	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 4	< 5	< 2	< 2
Carbon Tetrachloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	**33**	< 10	< 10	< 10	< 10	< 4	< 5	< 2	< 2
Chlorobenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 4	< 5	< 2	< 2
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 4	< 5	< 2	< 2
Chloroform	ug/l	**15**	**12**	**8.1**	**6.6**	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**4.1**	**5.4**	**5.4**	**6.9**
Chloromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 4	< 5	< 2	< 2
cis-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 4	< 5	< 2	< 2
Dibromochloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 4	< 5	< 2	< 2
Ethylbenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 4	< 5	< 2	< 2
Methylene Chloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 25	< 10	< 10
Styrene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 4	< 5	< 2	< 2
Tetrachloroethene	ug/l	**8.4**	**11**	**20**	**18**	**23**	**31**	**35**	**43**	**51**	**50**	**36**	**46**	**44**	**41**	**67**	**52**	**36**	**54**	**52**	**44**
Toluene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 4	< 5	< 2	< 2
trans-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 4	< 5	< 2	< 2
Trichloroethene	ug/l	**32**	**41**	**78**	**76**	**94**	**130**	**140**	**180**	**190**	**210**	**170**	**160**	**250**	**190**	**220**	**170**	**130**	**160**	**160**	**130**
Vinyl Chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 4	< 5	< 2	< 2
Xylenes, Total	ug/l	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 8	< 10	< 4	< 4
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/L	**158**	**187**	**280**	**262**	**282**	**399**	**407**	**505**	**560**	**600**	**461**	**497**	**674**	**538**	**586**	**480**	**343**	**424**	**426**	**306**

March 2020

APPENDIX C

OW-26S (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Sep-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09	Jun-09
1,1,1-Trichloroethane	ug/l	**48**	**58**	**70**	< 1	**55**	**54**	**60**	**57**	**53**	**47**	**43**	**52**	**65**	**52**	**56**	**55**	**67**	**70**	**75**	**85**
1,1,2,2-Tetrachloroethane	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	< 2	< 2	**1.1**	< 1	< 1	< 1	< 1	< 1	< 1	**1.1**	**1.3**	**1.2**	**1.3**	**1**	< 1	**1.1**	< 1	**1.2**	<1	**1.2**
1,1-Dichloroethene	ug/l	**37**	**87**	**81**	**53**	**68**	**57**	**39**	**47**	**59**	**67**	**47**	**63**	**57**	**51**	**54**	**49**	**47**	**44**	**49**	**60**
1,2-Dichloroethane	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene, Total	ug/l	< 4	< 4	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	ug/l	< 20	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5
2-Hexanone	ug/l	< 20	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone	ug/l	< 20	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5
Acetone	ug/l	< 50	< 50	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 5	< 5	< 5	< 5
Benzene	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 2	< 2	**1.4**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/l	**6.5**	**8.5**	**8.9**	**6.2**	**7.1**	**5.8**	**5.1**	**5.4**	**5.7**	**5.3**	**6.9**	**6.9**	**6.3**	**6.2**	**5.8**	**6.2**	**5.8**	**7.2**	**6.4**	**7.5**
Chloromethane	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/l	< 10	< 10	< 1	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2	**2.7**
Styrene	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/l	**35**	**37**	**46**	**42**	**44**	**37**	**31**	**39**	**34**	**36**	**36**	**41**	**31**	**35**	**35**	**29**	**28**	**30**	**36**	**36**
Toluene	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/l	**120**	**130**	**140**	**120**	**130**	**110**	**100**	**100**	**110**	**110**	**100**	**120**	**110**	**110**	**110**	**100**	**78**	**110**	**120**	**120**
Vinyl Chloride	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylenes, Total	ug/l	< 4	< 4	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/L	**247**	**321**	**348**	**221**	**304**	**264**	**235**	**248**	**262**	**266**	**234**	**284**	**271**	**255**	**261**	**240**	**226**	**262**	**286**	**312**

March 2020

APPENDIX C

OW-26S (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Dec-09	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17	Sep-17	Mar-18	Mar-19	Mar-20
1,1,1-Trichloroethane	ug/l	**59**	**42**	**58**	**32**	Dry	Dry	Dry	Dry	**27**	**19**	**29**	**24**	**35**	**5.1**	**20.7**	**18.4**	**13**	**0.55 J**	**0.46 J**
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<0.036
1,1,2-Trichloroethane	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<0.066
1,1-Dichloroethane	ug/l	**1.0**	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 1	< 1	**1.4**	< 1	**1.3**	< 1	**2.2**	**1.6**	**1.2**	**2.1**	<0.083
1,1-Dichloroethene	ug/l	**37**	**29**	**37**	**30**	Dry	Dry	Dry	Dry	**26**	**21**	**21**	**22**	**19**	**9.1**	**19.7**	**16.5**	**14.9**	**5.5**	**0.81**
1,2-Dichloroethane	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<0.066
1,2-Dichloroethene, Total	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<0.094
1,2-Dichloropropane	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<0.11
2-Butanone	ug/l	< 5	< 25	< 15	< 25	Dry	Dry	Dry	Dry	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<0.24
2-Hexanone	ug/l	< 5	< 25	< 15	< 25	Dry	Dry	Dry	Dry	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<0.065
4-Methyl-2-pentanone	ug/l	< 5	< 25	< 15	< 25	Dry	Dry	Dry	Dry	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<0.078
Acetone	ug/l	< 5	< 25	< 15	< 25	Dry	Dry	Dry	Dry	< 2	**2.8**	< 2	< 2	**2**	< 2	< 25	< 25	< 25	< 25	<0.31
Benzene	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<0.048
Bromodichloromethane	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<0.062
Bromoform	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<0.040
Bromomethane	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5	<0.18
Carbon Disulfide	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	<0.075
Carbon Tetrachloride	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 1	< 1	**4.4**	< 1	**5.8**	< 1	< 1	< 1	< 1	< 1	<0.11
Chlorobenzene	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<0.062
Chloroethane	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	<0.22
Chloroform	ug/l	**5.8**	**7.5**	**6.4**	**5.7**	Dry	Dry	Dry	Dry	**8.9**	**11**	**10**	**11**	**9.6**	**5.1**	**15**	**14.1**	**15.7**	< 5.0	**0.21 J**
Chloromethane	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1	<0.079
cis-1,3-Dichloropropene	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<0.079
Dibromochloromethane	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<0.081
Ethylbenzene	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<0.061
Methylene Chloride	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	--	< 1	--	--	< 2	< 1	< 2	< 2	< 2	< 2	<0.083
Styrene	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<0.047
Tetrachloroethene	ug/l	**36**	**28**	**30**	**26**	Dry	Dry	Dry	Dry	**32**	**26**	**25**	**29**	**30**	**13**	**25.4**	**14.3**	**4**	**3.7**	**7.8**
Toluene	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.29 J**	<0.044
trans-1,3-Dichloropropene	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<0.070
Trichloroethene	ug/l	**83**	**91**	**84**	**79**	Dry	Dry	Dry	Dry	**88**	**81**	**72**	**61**	**59**	**35**	**52.6**	**63.6**	**46.8**	**33.7**	**5.8**
Vinyl Chloride	ug/l	< 1	< 5	< 3	< 5	Dry	Dry	Dry	Dry	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1	<0.097
Xylenes, Total	ug/l	< 3	< 15	< 9	< 15	Dry	Dry	Dry	Dry	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 1	< 1	< 1	<0.15
1,4-Dioxane	ug/l	< 200	< 1000	< 600	< 1000	Dry	Dry	Dry	Dry	**18**	**17**	**23**	**20**	**23**	< 5	< 150	< 150	< 150	< 150	<0.14
Total VOCs	ug/L	**222**	**198**	**215**	**173**	Dry	Dry	Dry	Dry	**200**	**178**	**186**	**167**	**185**	**67**	**136**	**129**	**96**	**46**	**15**

March 2020

APPENDIX C

OW-27D (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Mar-99	Jun-99	Dec-99	Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jul-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
1,1,1-Trichloroethane	ug/l	**1800**	**920**	**1400**	**1300**	**1300**	**1500**	**1100**	**1200**	**1100**	**1100**	**660**	**700**	**590**	**440**	**340**	**310**	**300**	**220**	**250**	**360**
1,1,2,2-Tetrachloroethane	ug/l	< 500	< 250	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 250	< 250	< 250	< 120	< 120	< 250	< 50	< 50	< 50
1,1,2-Trichloroethane	ug/l	< 500	< 250	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 250	< 250	< 250	< 120	< 120	< 250	< 50	< 50	< 50
1,1-Dichloroethane	ug/l	< 500	< 250	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 250	< 250	< 250	< 120	< 120	< 250	< 50	< 50	< 50
1,1-Dichloroethene	ug/l	**13000**	**6600**	**9500**	**9600**	**9100**	**9300**	**6700**	**7300**	**6700**	**6800**	**5100**	**5000**	**4100**	**2500**	**2200**	**1900**	**2300**	**700**	**720**	**490**
1,2-Dichloroethane	ug/l	< 500	< 250	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 250	< 250	< 250	< 120	< 120	< 250	< 50	< 50	< 50
1,2-Dichloroethene, Total	ug/l	< 500	< 250	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 250	< 250	< 250	< 120	< 250	< 500	< 100	< 100	< 100
1,2-Dichloropropane	ug/l	< 500	< 250	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 250	< 250	< 250	< 120	< 120	< 250	< 50	< 50	< 50
2-Butanone	ug/l	< 2500	< 1200	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 1200	< 1200	< 1200	< 620	< 620	< 1200	< 500	< 500	< 500
2-Hexanone	ug/l	< 2500	< 1200	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 1200	< 1200	< 1200	< 620	< 620	< 1200	< 500	< 500	< 500
4-Methyl-2-pentanone	ug/l	< 2500	< 1200	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 1200	< 1200	< 1200	< 620	< 620	< 1200	< 500	< 500	< 500
Acetone	ug/l	< 5000	< 2500	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 2500	< 2500	< 2500	< 1200	< 1200	< 2500	< 1200	< 1200	< 1200
Benzene	ug/l	< 500	< 250	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 250	< 250	< 250	< 120	< 120	< 250	< 50	< 50	< 50
Bromodichloromethane	ug/l	< 500	< 250	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 250	< 250	< 250	< 120	< 120	< 250	< 50	< 50	< 50
Bromoform	ug/l	< 500	< 250	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 250	< 250	< 250	< 120	< 120	< 250	< 50	< 50	< 50
Bromomethane	ug/l	< 1000	< 500	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 500	< 500	< 500	< 250	< 120	< 250	< 50	< 50	< 50
Carbon Disulfide	ug/l	< 500	< 250	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 250	< 250	< 250	< 120	< 120	< 250	< 50	< 50	< 50
Carbon Tetrachloride	ug/l	< 500	< 250	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 250	< 250	< 250	< 120	< 120	< 250	< 50	< 50	< 50
Chlorobenzene	ug/l	< 500	< 250	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 250	< 250	< 250	< 120	< 120	< 250	< 50	< 50	< 50
Chloroethane	ug/l	< 1000	< 500	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 500	< 500	< 500	< 250	< 120	< 250	< 50	< 50	< 50
Chloroform	ug/l	< 500	< 250	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 250	< 250	< 250	< 120	< 120	< 250	< 50	< 50	< 50
Chloromethane	ug/l	< 1000	< 500	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 500	< 500	< 500	< 250	< 120	< 250	< 50	< 50	< 50
cis-1,3-Dichloropropene	ug/l	< 500	< 250	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 250	< 250	< 250	< 120	< 120	< 250	< 50	< 50	< 50
Dibromochloromethane	ug/l	< 500	< 250	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 250	< 250	< 250	< 120	< 120	< 250	< 50	< 50	< 50
Ethylbenzene	ug/l	< 500	< 250	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 250	< 250	< 250	< 120	< 120	< 250	< 50	< 50	< 50
Methylene Chloride	ug/l	< 500	< 250	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 250	< 250	< 250	< 120	< 120	< 250	< 250	< 250	< 250
Styrene	ug/l	< 500	< 250	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 250	< 250	< 250	< 120	< 120	< 250	< 50	< 50	< 50
Tetrachloroethene	ug/l	**3200**	**1700**	**2500**	**2600**	**2200**	**2500**	**2300**	**2400**	**2200**	**2000**	**1300**	**1600**	**910**	**720**	**760**	**720**	**660**	**300**	**290**	**280**
Toluene	ug/l	< 500	< 250	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 250	< 250	< 250	< 120	< 120	< 250	< 50	< 50	< 50
trans-1,3-Dichloropropene	ug/l	< 500	< 250	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 250	< 250	< 250	< 120	< 120	< 250	< 50	< 50	< 50
Trichloroethene	ug/l	**20000**	**10000**	**14000**	**14000**	**14000**	**15000**	**14000**	**16000**	**14000**	**13000**	**8600**	**8800**	**6900**	**6300**	**4100**	**3400**	**3100**	**1500**	**1400**	**1500**
Vinyl Chloride	ug/l	< 1000	< 500	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 500	< 500	< 500	< 250	< 120	< 250	< 50	< 50	< 50
Xylenes, Total	ug/l	< 500	< 250	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 500	< 500	< 500	< 250	< 250	< 500	< 100	< 100	< 100
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/L	**38,000**	**19,220**	**27,400**	**27,500**	**26,600**	**28,300**	**24,100**	**26,900**	**24,000**	**22,900**	**15,660**	**16,100**	**12,500**	**9,960**	**7,400**	**6,330**	**6,360**	**2,720**	**2,660**	**2,630**

March 2020

APPENDIX C

OW-27D (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Jun-04	Sep-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09
1,1,1-Trichloroethane	ug/l	**220**	**270**	**260**	**280**	**280**	**300**	**360**	**420**	**400**	**410**	**400**	**420**	**620**	**760**	**660**	< 10	**440**	**450**	**510**	**490**
1,1,2,2-Tetrachloroethane	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 2	< 10	< 10
1,1,2-Trichloroethane	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 2	< 10	< 10
1,1-Dichloroethane	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 2	< 10	< 10
1,1-Dichloroethene	ug/l	**490**	**460**	**400**	**390**	**230**	**350**	**340**	**240**	**350**	**450**	**440**	**510**	**660**	**760**	**610**	**480**	**330**	**510**	**480**	**530**
1,2-Dichloroethane	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 2	< 10	< 10
1,2-Dichloroethene, Total	ug/l	< 50	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 40	< 20	< 20	< 20	< 2	< 10	< 10
1,2-Dichloropropane	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 2	< 10	< 10
2-Butanone	ug/l	< 250	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 200	< 100	< 100	< 100	< 10	< 50	< 50
2-Hexanone	ug/l	< 250	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 200	< 100	< 100	< 100	< 10	< 50	< 50
4-Methyl-2-pentanone	ug/l	< 250	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 200	< 100	< 100	< 100	< 10	< 50	< 50
Acetone	ug/l	< 620	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 500	< 250	< 250	< 250	< 10	< 50	< 50
Benzene	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 2	< 10	< 10
Bromodichloromethane	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 2	< 10	< 10
Bromoform	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 2	< 10	< 10
Bromomethane	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 2	< 10	< 10
Carbon Disulfide	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 40	< 20	< 20	< 20	< 10	< 50	< 50
Carbon Tetrachloride	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	**2.7**	< 10	< 10
Chlorobenzene	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 2	< 10	< 10
Chloroethane	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 2	< 10	< 10
Chloroform	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	**9.6**	**13**	**12**
Chloromethane	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 2	< 10	< 10
cis-1,3-Dichloropropene	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 2	< 10	< 10
Dibromochloromethane	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 2	< 10	< 10
Ethylbenzene	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 2	< 10	< 10
Methylene Chloride	ug/l	< 120	< 50	< 50	< 10	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 50	< 50	< 50	< 4	< 20	< 20
Styrene	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 2	< 10	< 10
Tetrachloroethene	ug/l	**260**	**260**	**220**	**250**	**250**	**280**	**300**	**280**	**400**	**400**	**480**	**440**	**770**	**690**	**810**	**700**	**460**	**520**	**670**	**650**
Toluene	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 2	< 10	< 10
trans-1,3-Dichloropropene	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 2	< 10	< 10
Trichloroethene	ug/l	**990**	**1000**	**940**	**1000**	**730**	**1100**	**1000**	**1000**	**1100**	**1200**	**1300**	**1400**	**1900**	**1900**	**1700**	**1600**	**1000**	**1000**	**1100**	**1200**
Vinyl Chloride	ug/l	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 2	< 10	< 10
Xylenes, Total	ug/l	< 50	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 40	< 20	< 20	< 20	< 4	< 20	< 20
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/L	**1,960**	**1,990**	**1,820**	**1,920**	**1,490**	**2,030**	**2,000**	**1,940**	**2,250**	**2,460**	**2,620**	**2,770**	**3,950**	**4,110**	**3,780**	**2,780**	**2,230**	**2,492**	**2,773**	**2,882**

March 2020

APPENDIX C

OW-27D (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Jun-09	Dec-09	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17	Mar-18	Mar-19	Mar-20
1,1,1-Trichloroethane	ug/l	**540**	**300**	**250**	**180**	**140**	**110**	**100**	**120**	**87**	**92**	**62**	**63**	**73**	**64**	**85**	**77.5**	**74.6**	**59.4**	**62**
1,1,2,2-Tetrachloroethane	ug/l	< 10	< 1	< 25	< 20	< 20	<20	< 20	< 20	< 2.5	< 2.5	< 2.5	< 2	< 2	< 5	< 2	< 2.5	< 2.5	< 5.0	<0.36
1,1,2-Trichloroethane	ug/l	< 10	< 1	< 25	< 20	< 20	<20	< 20	< 20	< 2.5	< 2.5	< 2.5	< 2	< 2	< 5	< 2	< 2.5	< 2.5	< 5.0	<0.66
1,1-Dichloroethane	ug/l	< 10	**1.7**	< 25	< 20	< 20	<20	< 20	< 20	< 2.5	< 2.5	< 2.5	< 2	< 2	< 5	< 2	**1.4 J**	**1.2 J**	< 5.0	<0.83
1,1-Dichloroethene	ug/l	**630**	**330**	**250**	**170**	**120**	**82**	**76**	**73**	**52**	**91**	**59**	**61**	**78**	**61**	**96**	**124**	**81.4**	**89.2**	**120**
1,2-Dichloroethane	ug/l	< 10	< 1	< 25	< 20	< 20	<20	< 20	< 20	< 2.5	< 2.5	< 2.5	< 2	< 2	< 5	< 2	< 2.5	< 2.5	< 5.0	<0.66
1,2-Dichloroethene, Total	ug/l	< 10	< 1	< 25	< 20	< 20	<20	< 20	< 20	< 2.5	< 2.5	< 2.5	< 1	< 2	< 5	<2	**0.58 J**	**1.2 J**	< 5.0	<0.94
1,2-Dichloropropane	ug/l	< 10	< 1	< 25	< 20	< 20	<20	< 20	< 20	< 2.5	< 2.5	< 2.5	< 2	< 2	< 5	< 2	< 2.5	< 2.5	< 5.0	<1.1
2-Butanone	ug/l	< 50	< 5	< 120	< 100	< 100	<100	< 100	< 100	< 13	< 13	< 13	< 10	< 10	< 25	< 10	< 12.5	< 12.5	< 25.0	<2.4
2-Hexanone	ug/l	< 50	< 5	< 120	< 100	< 100	<100	< 100	< 100	< 13	< 13	< 13	< 10	< 10	< 25	< 10	< 12.5	< 12.5	< 25.0	<0.65
4-Methyl-2-pentanone	ug/l	< 50	< 5	< 120	< 100	< 100	<100	< 100	< 100	< 13	< 13	< 13	< 10	< 10	< 25	< 10	< 12.5	< 12.5	< 25.0	<0.78
Acetone	ug/l	< 50	< 5	< 120	< 100	< 100	<100	< 100	< 100	< 5	< 5	< 5	< 4	< 4	< 10	< 4	< 62.5	< 62.5	< 125	<3.1
Benzene	ug/l	< 10	< 1	< 25	< 20	< 20	<20	< 20	< 20	< 2.5	< 2.5	< 2.5	< 2	< 2	< 5	< 2	< 2.5	**0.66 J**	< 5.0	<0.48
Bromodichloromethane	ug/l	< 10	< 1	< 25	< 20	< 20	<20	< 20	< 20	< 2.5	< 2.5	< 2.5	< 2	< 2	< 5	< 2	< 2.5	< 2.5	< 5.0	<0.62
Bromoform	ug/l	< 10	< 1	< 25	< 20	< 20	<20	< 20	< 20	< 2.5	< 2.5	< 2.5	< 2	< 2	< 5	< 2	< 2.5	< 2.5	< 5.0	<0.40
Bromomethane	ug/l	< 10	< 1	< 25	< 20	< 20	<20	< 20	< 20	< 5	< 5	< 5	< 4	< 4	< 10	< 4	< 12.5	< 12.6	< 10.0	<1.8
Carbon Disulfide	ug/l	< 50	< 1	**370**	< 20	< 20	<20	< 20	< 20	< 2.5	< 2.5	< 2.5	< 2	< 2	< 5	< 2	< 5	< 5	< 10.0	<0.75
Carbon Tetrachloride	ug/l	< 10	**1.9**	< 25	< 20	< 20	<20	< 20	< 20	< 2.5	**14**	**8.9**	**9.8**	< 2	**9.8**	< 2	< 2.5	< 2.5	< 5.0	<1.1
Chlorobenzene	ug/l	< 10	< 1	< 25	< 20	< 20	<20	< 20	< 20	< 2.5	< 2.5	< 2.5	< 2	< 2	< 5	< 2	< 2.5	< 2.5	< 5.0	<0.62
Chloroethane	ug/l	< 10	< 1	< 25	< 20	< 20	<20	< 20	< 20	< 5	< 5	< 5	< 4	< 4	< 10	< 4	< 2.5	< 2.5	< 5.0	<2.2
Chloroform	ug/l	**14**	**9.1**	< 25	< 20	< 20	<20	< 20	< 20	**5.8**	**5.5**	**4.0**	**4.7**	**5**	**5.1**	**5.9**	**6.7**	**4**	< 25.0	**7.7**
Chloromethane	ug/l	< 10	< 1	< 25	< 20	< 20	<20	< 20	< 20	< 5	< 5	< 5	< 4	< 4	< 10	< 4	< 2.5	< 2.5	< 5.0	<0.79
cis-1,3-Dichloropropene	ug/l	< 10	< 1	< 25	< 20	< 20	<20	< 20	< 20	< 2.5	< 2.5	< 2.5	< 2	< 2	< 5	< 2	< 2.5	< 2.5	< 5.0	<0.79
Dibromochloromethane	ug/l	< 10	< 1	< 25	< 20	< 20	<20	< 20	< 20	< 2.5	< 2.5	< 2.5	< 2	< 2	< 5	< 2	< 2.5	< 2.5	< 5.0	<1.1
Ethylbenzene	ug/l	< 10	< 1	< 25	< 20	< 20	<20	< 20	< 20	< 2.5	< 2.5	< 2.5	< 2	< 2	< 5	< 2	< 2.5	< 2.5	< 5.0	<0.61
Methylene Chloride	ug/l	**24**	< 1	< 25	< 20	< 20	**44**	< 20	< 20	--	--	< 2.5	--	--	< 10	< 2	< 5	< 5	< 10.0	<0.83
Styrene	ug/l	< 10	< 1	< 25	< 20	< 20	<20	< 20	< 20	< 2.5	< 2.5	< 2.5	< 2	< 2	< 5	< 2	< 2.5	< 2.6	< 5.0	<0.47
Tetrachloroethene	ug/l	**620**	**450**	**420**	**300**	**260**	**250**	**210**	**200**	**270**	**300**	**240**	**260**	**350**	**350**	**480**	**386**	**293**	**398**	**780**
Toluene	ug/l	< 10	< 1	< 25	< 20	< 20	<20	< 20	< 20	< 2.5	< 2.5	< 2.5	< 2	< 2	< 5	< 2	< 2.5	< 2.5	< 5.0	<0.44
trans-1,3-Dichloropropene	ug/l	< 10	< 1	< 25	< 20	< 20	<20	< 20	< 20	< 2.5	< 2.5	< 2.5	< 2	< 2	< 5	< 2	< 2.5	< 2.5	< 5.0	<0.70
Trichloroethene	ug/l	**1100**	**860**	**810**	**500**	**390**	**330**	**300**	**280**	**260**	**270**	**200**	**230**	**200**	**260**	**380**	**377**	**307**	**525**	**670**
Vinyl Chloride	ug/l	< 10	< 1	< 25	< 20	< 20	<20	< 20	< 20	< 5	< 5	< 5	< 4	< 4	< 10	< 4	< 2.5	< 2.5	< 5.0	<0.97
Xylenes, Total	ug/l	< 20	< 3	< 75	< 60	< 60	<60	< 60	< 60	< 7.5	< 7.5	< 7.5	< 6	< 6	< 15	< 6	< 2.5	< 2.5	< 5.0	<1.5
1,4-Dioxane	ug/l	--	< 200	< 5000	< 4000	< 4000	<4000	< 4000	< 4000	**22**	**26**	**21**	**26**	**25**	**28**	**25**	< 375	< 375	< 750	**29**
Total VOCs	ug/L	**2,928**	**1,953**	**2,100**	**1,150**	**910**	**816**	**686**	**673**	**697**	**799**	**595**	**655**	**731**	**778**	**1072**	**973**	**763**	**1072**	**1669**

March 2020

APPENDIX C

OW-28D (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Mar-99	Jun-99	Dec-99	Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jul-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
1,1,1-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 1	**2.3**	**2.3**
1,1,2,2-Tetrachloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 2
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 2
1,1-Dichloroethane	ug/l	< 5	< 5	**5.0**	**5.8**	**5.4**	**6.5**	**6.0**	< 5	**6.4**	< 10	< 5	< 5	< 10	< 10	< 10	< 10	< 10	**2.0**	**6.2**	**4.6**
1,1-Dichloroethene	ug/l	**48**	**49**	**85**	**78**	**74**	**130**	**110**	**84**	**160**	**130**	**120**	**91**	**140**	**170**	**120**	**140**	**170**	**43**	**150**	**94**
1,2-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 1	**1.6**	**2.3**
1,2-Dichloroethene, Total	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 10	< 10	< 10	< 20	< 20	< 2	< 2	< 4
1,2-Dichloropropane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 2
2-Butanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 50	< 25	< 25	< 50	< 50	< 50	< 50	< 50	< 10	< 10	< 20
2-Hexanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 50	< 25	< 25	< 50	< 50	< 50	< 50	< 50	< 10	< 10	< 20
4-Methyl-2-pentanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 50	< 25	< 25	< 50	< 50	< 50	< 50	< 50	< 10	< 10	< 20
Acetone	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 50	< 50	< 100	< 100	< 100	< 100	< 100	< 25	< 25	< 50
Benzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 2
Bromodichloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 2
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 2
Bromomethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 20	< 20	< 20	< 10	< 10	< 1	< 1	< 2
Carbon Disulfide	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 2
Carbon Tetrachloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 2
Chlorobenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 2
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 20	< 20	< 20	< 10	< 10	< 1	< 1	< 2
Chloroform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 10	< 10	< 10	< 10	< 10	**1.1**	**4.2**	**3.2**
Chloromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 20	< 20	< 20	< 10	< 10	< 1	< 1	< 2
cis-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 2
Dibromochloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 2
Ethylbenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 2
Methylene Chloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 10
Styrene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 2
Tetrachloroethene	ug/l	**6.9**	**7.7**	**15**	**12**	**11**	**18**	**17**	**15**	**20**	**19**	**14**	**15**	**22**	**18**	**20**	**22**	**20**	**5.6**	**19**	**15**
Toluene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 2
trans-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 2
Trichloroethene	ug/l	**69**	**69**	**110**	**100**	**100**	**150**	**140**	**140**	**180**	**180**	**140**	**130**	**180**	**190**	**180**	**200**	**170**	**38**	**160**	**140**
Vinyl Chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 20	< 20	< 20	< 10	< 10	< 1	< 1	< 2
Xylenes, Total	ug/l	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 2	< 2	< 4
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/L	**124**	**126**	**215**	**196**	**190**	**305**	**273**	**239**	**366**	**329**	**274**	**236**	**342**	**378**	**320**	**362**	**360**	**90**	**343**	**261**

March 2020

APPENDIX C

OW-28D (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Jun-04	Sep-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09	Jun-09
1,1,1-Trichloroethane	ug/l	**2.0**	< 2	< 1	< 1	< 2	**2.1**	**1.3**	< 1	**1.7**	**2.0**	**1.1**	< 2	**2.5**	< 1	< 1	< 1	**1.9**	**2.0**	**2.8**	**1.1**
1,1,2,2-Tetrachloroethane	ug/l	< 2	< 2	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 2	< 1	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 2	< 2	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 2	< 1	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	**5.9**	**2.6**	**2.4**	**2.5**	**6**	**4.9**	**2.3**	**2.5**	**3.8**	**5.9**	**2**	**4.9**	**5.8**	**1.3**	< 1	**4.3**	**2.8**	**3.6**	**6.0**	**6.2**
1,1-Dichloroethene	ug/l	**130**	**90**	**89**	**41**	**110**	**140**	**66**	**59**	**120**	**180**	**67**	**120**	**140**	**52**	**29**	**120**	**81**	**92**	**170**	**210**
1,2-Dichloroethane	ug/l	< 2	< 2	**1.0**	**1.1**	**2.1**	**1.5**	**1.1**	**1.5**	**1.6**	**2**	< 1	< 2	2.9	< 1	< 1	**1.6**	< 1	< 1	**1.9**	**1.7**
1,2-Dichloroethene, Total	ug/l	< 4	< 4	< 2	< 2	< 4	< 2	< 2	< 2	< 2	< 4	< 2	< 4	< 4	< 2	< 2	< 2	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 2	< 2	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 2	< 1	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	ug/l	< 20	< 20	< 10	< 10	< 20	< 10	< 10	< 10	< 10	< 20	< 10	< 20	< 20	< 10	< 10	< 10	< 5	< 5	< 5	< 5
2-Hexanone	ug/l	< 20	< 20	< 10	< 10	< 20	< 10	< 10	< 10	< 10	< 20	< 10	< 20	< 20	< 10	< 10	< 10	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone	ug/l	< 20	< 20	< 10	< 10	< 20	< 10	< 10	< 10	< 10	< 20	< 10	< 20	< 20	< 10	< 10	< 10	< 5	< 5	< 5	< 5
Acetone	ug/l	< 50	< 50	< 25	< 25	< 50	< 25	< 25	< 25	< 25	< 50	< 25	< 50	< 50	< 25	< 25	< 25	< 5	< 5	< 5	< 5
Benzene	ug/l	< 2	< 2	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 2	< 1	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 2	< 2	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 2	< 1	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	ug/l	< 2	< 2	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 2	< 1	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	ug/l	< 2	< 2	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 2	< 1	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	ug/l	< 2	< 2	< 1	< 1	< 2	< 1	< 1	< 2	< 2	< 4	< 2	< 4	< 4	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 2	< 2	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 2	< 1	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/l	< 2	< 2	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 2	< 1	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	ug/l	< 2	< 2	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 2	< 1	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/l	**3.8**	< 2	**1.2**	**1.2**	**3.4**	**3.1**	**1.3**	**1.5**	**3.4**	**3.4**	**1.4**	**3.8**	**3.7**	< 1	< 1	**2.3**	**1**	**1.6**	**2.6**	**3.2**
Chloromethane	ug/l	< 2	< 2	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 2	< 1	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 2	< 2	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 2	< 1	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 2	< 2	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 2	< 1	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/l	< 2	< 2	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 2	< 1	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/l	< 10	< 10	< 5	< 1	< 10	< 5	< 5	< 5	< 5	< 10	< 5	< 10	< 10	< 5	< 5	< 5	< 2	< 2	< 2	**2.7**
Styrene	ug/l	< 2	< 2	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 2	< 1	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/l	**20**	**12**	**11**	**10**	**22**	**20**	**10**	**12**	**20**	**26**	**12**	**21**	**20**	**9.6**	**6.2**	**16**	**14**	**17**	**22**	**19**
Toluene	ug/l	< 2	< 2	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 2	< 1	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 2	< 2	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 2	< 1	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/l	**160**	**99**	**89**	**84**	**180**	**170**	**87**	**110**	**160**	**210**	**88**	**170**	**200**	**68**	**43**	**150**	**81**	**140**	**190**	**190**
Vinyl Chloride	ug/l	< 2	< 2	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 2	< 1	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylenes, Total	ug/l	< 4	< 4	< 2	< 2	< 4	< 2	< 2	< 2	< 2	< 4	< 2	< 4	< 4	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/L	**322**	**204**	**194**	**140**	**324**	**342**	**169**	**187**	**311**	**429**	**172**	**320**	**375**	**131**	**78**	**294**	**182**	**256**	**395**	**434**

APPENDIX C

OW-28D (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Dec-09	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17	Sep-17	Mar-18	Sep-18
1,1,1-Trichloroethane	ug/l	< 10	< 5	< 5	< 5	<4	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 5	< 5	< 5	<4	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 1	< 5	< 5	< 5	<4	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	**5.4**	**5.3**	< 5	< 5	<4	< 5	< 1	< 1	**1.6**	**3.4**	< 1	< 1	< 1	**1.6**	**0.75 J**	< 1	**2.4**	**2.1**
1,1-Dichloroethene	ug/l	**130**	**140**	**96**	**130**	**43**	**39**	**21**	**15**	**54**	**100**	**6.5**	**34**	**15**	**85**	**40.3**	**17.1**	**113**	**111**
1,2-Dichloroethane	ug/l	**1.6**	< 5	< 5	< 5	<4	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.1**	**0.46 J**	< 1	< 1	**1.2**
1,2-Dichloroethene, Total	ug/l	< 1	< 5	< 5	< 5	<4	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 1	< 5	< 5	< 5	<4	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	ug/l	< 5	< 25	< 25	< 25	<20	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
2-Hexanone	ug/l	< 5	< 25	< 25	< 25	<20	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
4-Methyl-2-pentanone	ug/l	< 5	< 25	< 25	< 25	<20	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
Acetone	ug/l	< 5	< 25	< 25	< 25	<20	< 25	< 5	< 2	< 2	< 2	< 2	**3.4**	< 2	< 2	< 25	< 25	< 25	< 25
Benzene	ug/l	< 1	< 5	< 5	< 5	<4	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 1	< 5	< 5	< 5	<4	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	ug/l	< 1	< 5	< 5	< 5	<4	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	ug/l	< 1	< 5	< 5	< 5	<4	< 5	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Carbon Disulfide	ug/l	< 1	< 5	**27**	< 5	<4	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2
Carbon Tetrachloride	ug/l	< 1	< 5	< 5	< 5	<4	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/l	< 1	< 5	< 5	< 5	<4	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	ug/l	< 1	< 5	< 5	< 5	<4	< 5	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
Chloroform	ug/l	**2.7**	< 5	< 5	< 5	<4	< 5	< 1	< 1	**1.1**	**1.9**	< 1	**1.1**	< 1	**4.9**	**1.6**	**0.43J**	**1.7**	**5.0**
Chloromethane	ug/l	< 1	< 5	< 5	< 5	<4	< 5	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 1	< 5	< 5	< 5	<4	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 1	< 5	< 5	< 5	<4	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/l	< 1	< 5	< 5	< 5	<4	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/l	< 1	< 5	< 5	< 5	**9.1**	< 5	< 1	--	--	< 1	--	--	< 2	< 1	< 2	< 2	< 2	< 2
Styrene	ug/l	< 1	< 5	< 5	< 5	<4	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/l	**15**	**19**	**49**	**20**	**7.8**	**7.8**	**5**	**4.6**	**11**	**18**	**4.5**	**6.8**	**4.9**	**14**	**5.1**	**1.3**	**8**	**9.9**
Toluene	ug/l	< 1	< 5	< 5	< 5	<4	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 1	< 5	< 5	< 5	<4	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/l	**140**	**170**	**120**	**150**	**59**	**57**	**29**	**23**	**68**	**130**	**31**	**36**	**25**	**95**	**40.5**	**16.3**	**126**	**138**
Vinyl Chloride	ug/l	< 1	< 5	< 5	< 5	<4	< 5	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
Xylenes, Total	ug/l	< 3	< 15	< 15	< 15	<12	< 15	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 1	< 1	< 1
1,4-Dioxane	ug/l	< 200	< 1000	< 1000	< 1000	<800	< 1000	< 200	**9.2**	**23**	**41**	**13**	**13**	**9.0**	**23**	< 150	< 150	< 150	< 150
Total VOCs	ug/L	**295**	**334**	**292**	**300**	**119**	**104**	**55**	**52**	**159**	**294**	**55**	**94**	**54**	**225**	**89**	**35**	**251**	**267**

APPENDIX C

OW-28D (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Mar-19	Sep-19	Mar-20
1,1,1-Trichloroethane	ug/l	< 1	< 2.0	<0.061
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 2.0	<0.036
1,1,2-Trichloroethane	ug/l	< 1	< 2.0	<0.066
1,1-Dichloroethane	ug/l	**3.4**	**3.2**	**3.3**
1,1-Dichloroethene	ug/l	**153**	**161**	**200**
1,2-Dichloroethane	ug/l	**2.1**	**1.8 J**	**1.6**
1,2-Dichloroethene, Total	ug/l	< 1	< 2.0	<0.056
1,2-Dichloropropane	ug/l	< 1	< 2.0	<0.11
2-Butanone	ug/l	< 1	< 10.0	<0.24
2-Hexanone	ug/l	< 1	< 10.0	<0.065
4-Methyl-2-pentanone	ug/l	< 1	< 10.0	<0.078
Acetone	ug/l	**79.6**	< 50.0	<0.31
Benzene	ug/l	< 1	< 2.0	<0.048
Bromodichloromethane	ug/l	< 1	< 2.0	<0.062
Bromoform	ug/l	< 1	< 2.0	<0.040
Bromomethane	ug/l	< 5	< 4.0	<0.18
Carbon Disulfide	ug/l	< 2	< 4.0	<0.075
Carbon Tetrachloride	ug/l	< 1	< 2.0	**0.45 J**
Chlorobenzene	ug/l	< 1	< 2.0	<0.062
Chloroethane	ug/l	< 1	< 2.0	<0.22
Chloroform	ug/l	**22.7**	**38.9**	**37**
Chloromethane	ug/l	< 1	< 2.0	<0.079
cis-1,3-Dichloropropene	ug/l	< 1	< 2.0	<0.079
Dibromochloromethane	ug/l	< 1	< 2.0	<0.081
Ethylbenzene	ug/l	< 1	< 2.0	<0.061
Methylene Chloride	ug/l	**8.8 J**	< 10.0	<0.083
Styrene	ug/l	< 1	< 2.0	<0.047
Tetrachloroethene	ug/l	**23.8**	**20.4**	**22**
Toluene	ug/l	< 1	**0.56 J**	<0.044
trans-1,3-Dichloropropene	ug/l	< 1	< 2.0	<0.070
Trichloroethene	ug/l	**206**	**188**	**250**
Vinyl Chloride	ug/l	< 1	< 2.0	<0.097
Xylenes, Total	ug/l	< 1	< 2.0	<0.15
1,4-Dioxane	ug/l	< 150	< 300	**33**
Total VOCs	ug/L	**499**	**414**	**547**

APPENDIX C

OW-33S (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Mar-18	Mar-19
1,1,1-Trichloroethane	ug/l	< 1	< 1.0
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1.0
1,1,2-Trichloroethane	ug/l	< 1	< 1.0
1,1-Dichloroethane	ug/l	**0.38 J**	< 1.0
1,1-Dichloroethene	ug/l	**1.6**	< 1.0
1,2-Dichloroethane	ug/l	< 1	< 1.0
1,2-Dichloroethene, Total	ug/l	< 1	< 1.0
1,2-Dichloropropane	ug/l	< 1	< 1.0
1,4-Dioxane	ug/l	< 150	< 150
2-Butanone	ug/l	< 5	< 5.0
2-Hexanone	ug/l	< 5	< 5.0
4-Methyl-2-pentanone	ug/l	< 5	< 5.0
Acetone	ug/l	< 25	< 25
Benzene	ug/l	< 1	< 1.0
Bromodichloromethane	ug/l	< 1	< 1.0
Bromoform	ug/l	< 1	< 1.0
Bromomethane	ug/l	< 5	< 5.0
Carbon Disulfide	ug/l	< 2	< 2.0
Carbon Tetrachloride	ug/l	< 1	< 1.0
Chlorobenzene	ug/l	< 1	< 1.0
Chloroethane	ug/l	< 1	< 1.0
Chloroform	ug/l	< 1	< 1.0
Chloromethane	ug/l	< 1	< 1.0
cis-1,3-Dichloropropene	ug/l	< 1	< 1.0
Dibromochloromethane	ug/l	< 1	< 1.0
Dichlorodifluoromethane	ug/l	< 1	< 1.0
Ethylbenzene	ug/l	< 1	< 1.0
Methylene Chloride	ug/l	< 2	< 2.0
Styrene	ug/l	< 1	< 1.0
Tetrachloroethene	ug/l	**0.63 J**	< 1.0
Toluene	ug/l	< 1	< 1.0
trans-1,3-Dichloropropene	ug/l	< 1	< 1.0
Trichloroethene	ug/l	**1.3**	< 1.0
Vinyl Chloride	ug/l	< 1	< 1.0
Xylenes, Total	ug/l	< 1	< 1.0
Total VOCs	ug/L	**4**	**0**

APPENDIX C

OW-34S (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Mar-18	Mar-19	Mar-20
1,1,1-Trichloroethane	ug/l	< 1	< 1.0	<0.061
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1.0	<0.036
1,1,2-Trichloroethane	ug/l	< 1	< 1.0	<0.066
1,1-Dichloroethane	ug/l	< 1	< 1.0	<0.083
1,1-Dichloroethene	ug/l	< 1	< 1.0	<0.083
1,2-Dichloroethane	ug/l	< 1	< 1.0	<0.066
1,2-Dichloroethene, Total	ug/l	< 1	< 1.0	<0.094
1,2-Dichloropropane	ug/l	< 1	< 1.0	<0.11
1,4-Dioxane	ug/l	< 150	< 150	<0.014
2-Butanone	ug/l	< 5	< 5.0	<0.24
2-Hexanone	ug/l	< 5	< 5.0	<0.065
4-Methyl-2-pentanone	ug/l	< 5	< 5.0	<0.078
Acetone	ug/l	< 25	< 25	**3.3 J**
Benzene	ug/l	< 1	< 1.0	<0.048
Bromodichloromethane	ug/l	< 1	< 1.0	<0.062
Bromoform	ug/l	< 1	< 1.0	<0.040
Bromomethane	ug/l	< 5	< 5.0	**0.20 J**
Carbon Disulfide	ug/l	< 2	< 2.0	<0.075
Carbon Tetrachloride	ug/l	< 1	< 1.0	<0.11
Chlorobenzene	ug/l	< 1	< 1.0	<0.062
Chloroethane	ug/l	< 1	< 1.0	<0.22
Chloroform	ug/l	< 1	< 1.0	<0.079
Chloromethane	ug/l	< 1	< 1.0	<0.079
cis-1,3-Dichloropropene	ug/l	< 1	< 1.0	<0.079
Dibromochloromethane	ug/l	< 1	< 1.0	<0.081
Dichlorodifluoromethane	ug/l	< 1	< 1.0	<0.061
Ethylbenzene	ug/l	< 1	< 1.0	<0.061
Methylene Chloride	ug/l	< 2	< 2.0	<0.083
Styrene	ug/l	< 1	< 1.0	<0.047
Tetrachloroethene	ug/l	< 1	< 1.0	<0.098
Toluene	ug/l	< 1	< 1.0	<0.044
trans-1,3-Dichloropropene	ug/l	< 1	< 1.0	<0.070
Trichloroethene	ug/l	< 1	< 1.0	<0.078
Vinyl Chloride	ug/l	< 1	< 1.0	<0.097
Xylenes, Total	ug/l	< 1	< 1.0	<0.15
Total VOCs	ug/L	**0**	**0**	**4**

APPENDIX C

OW-35D (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Mar-18	Sep-18	Mar-19	Sep-19	Mar-20
1,1,1-Trichloroethane	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.061
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.036
1,1,2-Trichloroethane	ug/l	**0.62 J**	**0.48 J**	< 1.0	< 1.0	<0.066
1,1-Dichloroethane	ug/l	**7.3**	**6.3**	**4.6**	**2.1**	**2.6**
1,1-Dichloroethene	ug/l	**56.4**	**51.0**	**41.8**	**19.8**	**3.2**
1,2-Dichloroethane	ug/l	**0.72 J**	< 1.0	**0.61 J**	**0.45 J**	**0.35 J**
1,2-Dichloroethene, Total	ug/l	**56.6**	**47.5**	**101**	**30.5**	**2.3**
1,2-Dichloropropane	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.11
1,4-Dioxane	ug/l	< 150	< 150	< 150	< 150	**13**
2-Butanone	ug/l	< 5	< 5.0	< 5.0	< 5.0	<0.24
2-Hexanone	ug/l	< 5	< 5.0	< 5.0	< 5.0	<0.065
4-Methyl-2-pentanone	ug/l	< 5	< 5.0	< 5.0	< 5.0	<0.078
Acetone	ug/l	< 25	< 25.0	**24.5 J**	< 25.0	<0.31
Benzene	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.048
Bromodichloromethane	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.062
Bromoform	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.040
Bromomethane	ug/l	< 5	**0.43 J**	< 5.0	< 5.0	<0.18
Carbon Disulfide	ug/l	< 2	< 2.0	< 2.0	< 2.0	<0.075
Carbon Tetrachloride	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.11
Chlorobenzene	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.062
Chloroethane	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.22
Chloroform	ug/l	**0.36 J**	< 1.0	< 1.0	< 1.0	<0.076
Chloromethane	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.079
cis-1,3-Dichloropropene	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.079
Dibromochloromethane	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.081
Dichlorodifluoromethane	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.061
Ethylbenzene	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.061
Methylene Chloride	ug/l	< 2	< 2.0	< 2.0	< 2.0	<0.083
Styrene	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.047
Tetrachloroethene	ug/l	**8.9**	**4.3**	< 1.0	< 1.0	**0.68**
Toluene	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.044
trans-1,3-Dichloropropene	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.070
Trichloroethene	ug/l	**90.5**	**63.7**	**1.4**	**1.3**	**3.8**
Vinyl Chloride	ug/l	< 1	< 1.0	< 1.0	**19.6**	**37**
Xylenes, Total	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.15
Total VOCs	ug/L	**221**	**174**	**174**	**74**	**63**

APPENDIX C

OW-36S (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Mar-18	Sep-18	Mar-19	Sep-19	Mar-20
1,1,1-Trichloroethane	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.061
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.036
1,1,2-Trichloroethane	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.066
1,1-Dichloroethane	ug/l	**1.9**	**1.9**	**2.0**	**1.9**	**2.1**
1,1-Dichloroethene	ug/l	**54.4**	**52.8**	**57.3**	**47.4**	**55**
1,2-Dichloroethane	ug/l	**0.57 J**	< 1.0	**0.44 J**	**0.42 J**	**0.41 J**
1,2-Dichloroethene, Total	ug/l	**1.1**	< 1.0	**1.0**	**0.99 J**	**1.2**
1,2-Dichloropropane	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.11
1,4-Dioxane	ug/l	< 150	< 150	< 150	< 150	**9.0**
2-Butanone	ug/l	< 5	< 5.0	< 5.0	< 5.0	<0.24
2-Hexanone	ug/l	< 5	< 5.0	< 5.0	< 5.0	<0.065
4-Methyl-2-pentanone	ug/l	< 5	< 5.0	< 5.0	< 5.0	<0.078
Acetone	ug/l	< 25	< 25.0	< 25.0	< 25.0	<0.31
Benzene	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.048
Bromodichloromethane	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.062
Bromoform	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.040
Bromomethane	ug/l	< 5	**0.39 J**	< 5.0	< 5.0	<0.18
Carbon Disulfide	ug/l	< 2	< 2.0	< 2.0	< 2.0	<0.075
Carbon Tetrachloride	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.11
Chlorobenzene	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.062
Chloroethane	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.22
Chloroform	ug/l	< 1	< 1.0	< 1.0	< 1.0	**0.36 J**
Chloromethane	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.079
cis-1,3-Dichloropropene	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.079
Dibromochloromethane	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.081
Dichlorodifluoromethane	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.061
Ethylbenzene	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.061
Methylene Chloride	ug/l	< 2	< 2.0	< 2.0	< 2.0	<0.083
Styrene	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.047
Tetrachloroethene	ug/l	**2.8**	**2.9**	**2.8**	**2.7**	**3.4**
Toluene	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.044
trans-1,3-Dichloropropene	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.070
Trichloroethene	ug/l	**41.8**	**37.4**	**38.1**	**34.2**	**46**
Vinyl Chloride	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.097
Xylenes, Total	ug/l	< 1	< 1.0	< 1.0	< 1.0	<0.15
Total VOCs	ug/L	**103**	**95**	**102**	**88**	**117**

APPENDIX C

OW-37D (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Mar-18
1,1,1-Trichloroethane	ug/l	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 1
1,1,2-Trichloroethane	ug/l	< 1
1,1-Dichloroethane	ug/l	< 1
1,1-Dichloroethene	ug/l	< 1
1,2-Dichloroethane	ug/l	< 1
1,2-Dichloroethene, Total	ug/l	< 1
1,2-Dichloropropane	ug/l	< 1
1,4-Dioxane	ug/l	< 150
2-Butanone	ug/l	< 5
2-Hexanone	ug/l	< 5
4-Methyl-2-pentanone	ug/l	< 5
Acetone	ug/l	< 25
Benzene	ug/l	< 1
Bromodichloromethane	ug/l	< 1
Bromoform	ug/l	< 1
Bromomethane	ug/l	< 5
Carbon Disulfide	ug/l	< 2
Carbon Tetrachloride	ug/l	< 1
Chlorobenzene	ug/l	< 1
Chloroethane	ug/l	< 1
Chloroform	ug/l	< 1
Chloromethane	ug/l	< 1
cis-1,3-Dichloropropene	ug/l	< 1
Dibromochloromethane	ug/l	< 1
Dichlorodifluoromethane	ug/l	< 1
Ethylbenzene	ug/l	< 1
Methylene Chloride	ug/l	< 2
Styrene	ug/l	< 1
Tetrachloroethene	ug/l	< 1
Toluene	ug/l	< 1
trans-1,3-Dichloropropene	ug/l	< 1
Trichloroethene	ug/l	< 1
Vinyl Chloride	ug/l	< 1
Xylenes, Total	ug/l	< 1
Total VOCs	ug/L	0

March 2020

APPENDIX C
PZ-04S (Burn Pit)
Historical VOC Concentrations

Parameter	Unit	Mar-99	Mar-00	Mar-01	Mar-02	Mar-03	Mar-04	Mar-05	Mar-06	Mar-07	Mar-08	Mar-09	Jun-10	Jun-11	Mar-12	Mar-13	Mar-14	Mar-15	Mar-16	Apr-17	Mar-18	Mar-19
1,1,1-Trichloroethane	ug/l	**17**	**21**	**13**	**12**	< 20	**5.3**	**2.6**	**4.5**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
1,1,2,2-Tetrachloroethane	ug/l	< 5	< 20	< 10	< 10	< 20	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
1,1,2-Trichloroethane	ug/l	< 5	< 20	< 10	< 10	< 20	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.4 J**	**0.35 J**	< 1.0
1,1-Dichloroethane	ug/l	< 5	< 20	< 10	< 10	< 20	< 2	**1.2**	**1.8**	< 1	< 1	**1.0**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.66 J**	**0.45 J**	< 1.0
1,1-Dichloroethene	ug/l	**120**	**250**	**140**	**190**	**260**	**43**	**62**	**76**	**23**	**45**	**25**	**24**	**31**	**29**	**22**	**20**	**22**	**19**	**19.40**	**15.70**	**9.2**
1,2-Dichloroethane	ug/l	< 5	< 20	< 10	< 10	< 20	< 2	**1.2**	**2.3**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.33 J**	< 1.0
1,2-Dichloroethene, Total	ug/l	< 5	< 20	< 10	< 10	< 40	< 4	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.37 J**	**0.23 J**	< 1.0
1,2-Dichloropropane	ug/l	< 5	< 20	< 10	< 10	< 20	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
2-Butanone	ug/l	< 25	< 100	< 50	< 50	< 100	< 20	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0
2-Hexanone	ug/l	< 25	< 100	< 50	< 50	< 100	< 20	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0
4-Methyl-2-pentanone	ug/l	< 25	< 100	< 50	< 50	< 100	< 20	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0
Acetone	ug/l	< 50	< 200	< 100	< 100	< 200	< 50	< 25	< 25	< 25	< 25	< 5	< 5	< 5	< 5	< 2	< 2	**2.5**	< 2	< 25	< 25	< 25
Benzene	ug/l	< 5	< 20	< 10	< 10	< 20	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Bromodichloromethane	ug/l	< 5	< 20	< 10	< 10	< 20	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Bromoform	ug/l	< 5	< 20	< 10	< 10	< 20	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Bromomethane	ug/l	< 10	< 40	< 20	< 20	< 20	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 5	< 5	< 5.0
Carbon Disulfide	ug/l	< 5	< 20	< 10	< 10	< 20	< 2	< 1	< 2	< 2	< 2	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2.0
Carbon Tetrachloride	ug/l	< 5	< 20	< 10	< 10	< 20	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Chlorobenzene	ug/l	< 5	< 20	< 10	< 10	< 20	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Chloroethane	ug/l	< 10	< 40	< 20	< 20	< 20	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 1	< 1	< 1.0
Chloroform	ug/l	< 5	< 20	< 10	< 10	< 20	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.3**	< 1	< 1	< 1	< 1	**0.21 J**	< 1	< 1.0
Chloromethane	ug/l	< 10	< 40	< 20	< 20	< 20	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 1	< 1	< 1.0
cis-1,3-Dichloropropene	ug/l	< 5	< 20	< 10	< 10	< 20	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Dibromochloromethane	ug/l	< 5	< 20	< 10	< 10	< 20	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Ethylbenzene	ug/l	< 5	< 20	< 10	< 10	< 20	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Methylene Chloride	ug/l	< 5	< 20	< 10	< 10	< 20	< 10	< 1	< 5	< 5	< 5	< 2	< 1	< 1	< 1	--	< 1	--	< 1	< 2	< 2	< 2.0
Styrene	ug/l	< 5	< 20	< 10	< 10	< 20	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Tetrachloroethene	ug/l	**20**	**51**	**36**	**33**	**51**	**13**	**12**	**19**	< 1	**8.3**	**3.6**	**5**	**3.6**	**2.8**	**1.5**	**1.4**	**1.5**	**1.5**	**1.30**	< 1	< 1.0
Toluene	ug/l	< 5	< 20	< 10	< 10	< 20	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
trans-1,3-Dichloropropene	ug/l	< 5	< 20	< 10	< 10	< 20	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Trichloroethene	ug/l	**190**	**400**	**350**	**320**	**440**	**130**	**110**	**170**	**2.6**	**57**	**28**	**39**	**27**	**18**	**7.7**	**8.7**	**6.2**	**9.6**	**7.30**	**4.00**	**2.4**
Vinyl Chloride	ug/l	< 10	< 40	< 20	< 20	< 20	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 1	< 1	< 1.0
Xylenes, Total	ug/l	< 5	< 40	< 20	< 20	< 40	< 4	< 2	< 2	< 2	< 2	< 2	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 1	< 1.0
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	< 200	< 200	< 200	**23**	**7.7**	**6.4**	**5.8**	< 150	< 150	< 150
Total VOCs	ug/L	**347**	**722**	**539**	**555**	**751**	**191**	**189**	**274**	**26**	**110**	**58**	**68**	**62**	**51**	**54**	**38**	**39**	**36**	**30**	**21**	**12**

APPENDIX C
PZ-04S (Burn Pit)
Historical VOC Concentrations

Mar-20
<0.061
<0.036
0.32 J
0.50
15
0.20 J
0.25 J
<0.11
<0.24
<0.065
<0.078
2.9 J
<0.048
<0.062
<0.040
<0.18
<0.075
<0.11
<0.062
<0.22
0.21 J
<0.079
<0.079
<0.081
<0.061
<0.083
<0.047
0.27 J
<0.044
<0.070
6.0
<0.097
<0.15
5.2
31

March 2020

APPENDIX C
PZ-29S (Burn Pit)
Historical VOC Concentrations

Parameter	Unit	Mar-99	Mar-00	Mar-01	Mar-02	Mar-03	Mar-04	Mar-05	Mar-06	Mar-07	Mar-08	Mar-09	Jun-10	Jun-11	Mar-12	Mar-13	Mar-14	Mar-15	Mar-16	Apr-17	Mar-19
1,1,1-Trichloroethane	ug/l	< 50	< 10	< 5	< 5	< 5	< 1	< 1	< 1	**3.7**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
1,1,2,2-Tetrachloroethane	ug/l	< 50	< 10	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
1,1,2-Trichloroethane	ug/l	< 50	< 10	< 5	< 5	< 5	< 1	< 1	**6.0**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
1,1-Dichloroethane	ug/l	< 50	< 10	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
1,1-Dichloroethene	ug/l	240	**160**	**61**	**59**	**37**	**32**	**31**	**12**	**140**	**6.9**	**6.1**	**5.1**	**3.7**	**3.3**	**1.7**	**2.2**	**1.8**	**1.5**	**2.3**	**1.2**
1,2-Dichloroethane	ug/l	< 50	< 10	< 5	< 5	< 5	1.4	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1.0
1,2-Dichloroethene, Total	ug/l	< 50	< 10	< 5	< 5	< 10	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.37 J**	< 1.0
1,2-Dichloropropane	ug/l	< 50	< 10	< 5	< 5	< 5	< 1	< 1	**33**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1.0
2-Butanone	ug/l	< 250	< 50	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0
2-Hexanone	ug/l	< 250	< 50	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0
4-Methyl-2-pentanone	ug/l	< 250	< 50	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 5	< 5.0
Acetone	ug/l	< 500	< 100	< 50	< 50	< 50	< 25	< 25	< 25	< 25	< 25	< 5	< 5	< 5	< 5	**5.8**	< 2	< 2	< 1	< 25	< 25
Benzene	ug/l	< 50	< 10	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Bromodichloromethane	ug/l	< 50	< 10	< 5	< 5	< 5	< 1	< 1	**1.4**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Bromoform	ug/l	< 50	< 10	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 1	< 1.0
Bromomethane	ug/l	< 100	< 20	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 1	< 5	< 5.0
Carbon Disulfide	ug/l	< 50	< 10	< 5	< 5	< 5	< 1	< 1	< 2	< 2	< 2	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2.0
Carbon Tetrachloride	ug/l	< 50	< 10	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Chlorobenzene	ug/l	< 50	< 10	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 1	< 1.0
Chloroethane	ug/l	< 100	< 20	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 1	< 1	< 1.0
Chloroform	ug/l	< 50	< 10	< 5	< 5	< 5	< 1	< 1	< 1	**140**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 1	< 1.0
Chloromethane	ug/l	< 100	< 20	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 1	< 1	< 1.0
cis-1,3-Dichloropropene	ug/l	< 50	< 10	< 5	< 5	< 5	< 1	< 1	**5.1**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Dibromochloromethane	ug/l	< 50	< 10	< 5	< 5	< 5	< 1	< 1	**1.9**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Ethylbenzene	ug/l	< 50	< 10	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Methylene Chloride	ug/l	< 50	< 10	< 5	< 5	< 5	< 5	< 1	< 5	< 5	< 5	< 2	< 1	< 1	< 1	--	< 1	--	< 1	< 2	< 2.0
Styrene	ug/l	< 50	< 10	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Tetrachloroethene	ug/l	< 50	**28**	**14**	**11**	**6.7**	**5.6**	**4.9**	**2.6**	**20**	**1.2**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Toluene	ug/l	< 50	< 10	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
trans-1,3-Dichloropropene	ug/l	< 50	< 10	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Trichloroethene	ug/l	**340**	**250**	**160**	**110**	**69**	**63**	**44**	**23**	**170**	**11**	**8.0**	**6.3**	**3.6**	**3.3**	**3.1**	**2.5**	**1.6**	**1.9**	**2.3**	**1.0**
Vinyl Chloride	ug/l	< 100	< 20	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 1	< 1.0
Xylenes, Total	ug/l	< 50	< 20	< 10	< 10	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 1.0
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	< 200	< 200	< 200	**2.2**	< 5	< 5	< 5	< 150	< 150
Total VOCs	ug/L	**580**	**438**	**235**	**180**	**113**	**102**	**80**	**85**	**474**	**19**	**14**	**11**	**7**	**7**	**13**	**5**	**3**	**3**	**5.0**	**2.2**

APPENDIX C
PZ-29S (Burn Pit)
Historical VOC Concentrations

Mar-20
<0.061
<0.036
<0.066
<0.083
2.2
<0.066
<0.094
<0.11
<0.24
<0.065
<0.078
<0.31
<0.048
<0.062
<0.040
<0.18
<0.075
<0.11
<0.062
<0.22
<0.076
<0.079
<0.079
<0.081
<0.061
<0.083
<0.047
<0.098
<0.044
<0.070
2.5
<0.097
<0.15
<0.14
4.7

March 2020

APPENDIX C
PZ-30S (Burn Pit)
Historical VOC Concentrations

Parameter	Unit	Mar-99	Mar-00	Mar-01	Mar-02	Mar-03	Mar-04	Mar-05	Mar-06	Mar-07	Mar-08	Mar-09	Jun-10	Jun-11	Mar-12	Mar-13	Mar-14	Mar-15	Mar-16	Apr-17	Mar-19
1,1,1-Trichloroethane	ug/l	< 5	< 5	< 10	< 5	< 5	**3.1**	**2.1**	**3.1**	**1.0**	**4.7**	**4.0**	< 10	< 10	< 4	< 1	**1.1**	**1.1**	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 5	< 5	< 10	< 5	< 5	< 2	< 1	< 1	< 1	< 2	< 1	< 10	< 10	< 4	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 10	< 5	< 5	< 2	< 1	< 1	< 1	< 2	< 1	< 10	< 10	< 4	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	< 5	< 5	< 10	< 5	< 5	< 2	< 1	< 1	**1.5**	< 2	< 1	< 10	< 10	< 4	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	ug/l	**5.2**	**57**	**110**	**100**	**97**	**65**	**65**	**59**	**67**	**110**	**120**	**100**	**58**	**40**	**28**	**21**	**19**	**13**	**1.9**	**8.6**
1,2-Dichloroethane	ug/l	< 5	< 5	< 10	< 5	< 5	< 2	< 1	< 1	< 1	< 2	< 1	< 10	< 10	< 4	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene, Total	ug/l	< 5	< 5	< 10	< 5	< 10	< 4	< 2	< 2	< 2	< 4	< 1	< 10	< 10	< 4	< 1	< 1	< 1	< 1	**1.1**	**0.89 J**
1,2-Dichloropropane	ug/l	< 5	< 5	< 10	< 5	< 5	< 2	< 1	< 1	< 1	< 2	< 1	< 10	< 10	< 4	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	ug/l	< 25	< 25	< 50	< 25	< 25	< 20	< 10	< 10	< 10	< 20	< 5	< 50	< 50	< 20	< 5	< 5	< 5	< 5	< 5	< 5
2-Hexanone	ug/l	< 25	< 25	< 50	< 25	< 25	< 20	< 10	< 10	< 10	< 20	< 5	< 50	< 50	< 20	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone	ug/l	< 25	< 25	< 50	< 25	< 25	< 20	< 10	< 10	< 10	< 20	< 5	< 50	< 50	< 20	< 5	< 5	< 5	< 5	< 5	< 5
Acetone	ug/l	< 50	< 50	< 100	< 50	< 50	< 50	< 25	< 25	< 25	< 50	< 5	< 50	< 50	< 20	**3.1**	**2 B**	< 2	< 2	<25	<25
Benzene	ug/l	< 5	< 5	< 10	< 5	< 5	< 2	< 1	< 1	< 1	< 2	< 1	< 10	< 10	< 4	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 5	< 5	< 10	< 5	< 5	< 2	< 1	< 1	< 1	< 2	< 1	< 10	< 10	< 4	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	ug/l	< 5	< 5	< 10	< 5	< 5	< 2	< 1	< 1	< 1	< 2	< 1	< 10	< 10	< 4	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	ug/l	< 10	< 10	< 20	< 10	< 5	< 2	< 1	< 1	< 1	< 2	< 1	< 10	< 10	< 4	< 2	< 2	< 2	< 2	< 5	< 5
Carbon Disulfide	ug/l	< 5	< 5	< 10	< 5	< 5	< 2	< 1	< 2	< 2	< 4	< 5	**32**	< 10	< 4	< 1	< 1	< 1	< 1	< 2	< 2
Carbon Tetrachloride	ug/l	< 5	< 5	< 10	< 5	< 5	< 2	< 1	< 1	< 1	< 2	**1.6**	< 10	< 10	< 4	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/l	< 5	< 5	< 10	< 5	< 5	< 2	< 1	< 1	< 1	< 2	< 1	< 10	< 10	< 4	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	ug/l	< 10	< 10	< 20	< 10	< 5	< 2	< 1	< 1	< 1	< 2	< 1	< 10	< 10	< 4	< 2	< 2	< 2	< 2	< 2	< 2
Chloroform	ug/l	< 5	**23**	**78**	**87**	**92**	**68**	**83**	**80**	< 1	**160**	**180**	**160**	**100**	**70**	**63**	**43**	**41**	**26**	**9.2**	**13.4**
Chloromethane	ug/l	< 10	< 10	< 20	< 10	< 5	< 2	< 1	< 1	< 1	< 2	< 1	< 10	< 10	< 4	< 2	< 2	< 2	< 2	<1	<1
cis-1,3-Dichloropropene	ug/l	< 5	< 5	< 10	< 5	< 5	< 2	< 1	< 1	< 1	< 2	< 1	< 10	< 10	< 4	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 5	< 5	< 10	< 5	< 5	< 2	< 1	< 1	< 1	< 2	< 1	< 10	< 10	< 4	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/l	< 5	< 5	< 10	< 5	< 5	< 2	< 1	< 1	< 1	< 2	< 1	< 10	< 10	< 4	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/l	< 5	< 5	< 10	< 5	< 5	< 10	< 1	< 5	< 5	< 10	< 2	< 10	< 10	< 4	--	< 1	--	< 1	< 2	< 2
Styrene	ug/l	< 5	< 5	< 10	< 5	< 5	< 2	< 1	< 1	< 1	< 2	< 1	< 10	< 10	< 4	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/l	< 5	**7.3**	**18**	**18**	**17**	**10**	**11**	**12**	**7.3**	**22**	**23**	**20**	**14**	**9.4**	**6.1**	**7.2**	**6**	**4.3**	**1.7**	**1.4**
Toluene	ug/l	< 5	< 5	< 10	< 5	< 5	< 2	< 1	< 1	< 1	< 2	< 1	< 10	< 10	< 4	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 5	< 5	< 10	< 5	< 5	< 2	< 1	< 1	< 1	< 2	< 1	< 10	< 10	< 4	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/l	**6.5**	**70**	**210**	**170**	**160**	**100**	**95**	**110**	**63**	**220**	**180**	**150**	**100**	**59**	**53**	**35**	**26**	**24**	**9.8**	**18.4**
Vinyl Chloride	ug/l	< 10	< 10	< 20	< 10	< 5	< 2	< 1	< 1	< 1	< 2	< 1	< 10	< 10	< 4	< 2	< 2	< 2	< 2	< 2	< 2
Xylenes, Total	ug/l	< 5	< 10	< 20	< 10	< 10	< 4	< 2	< 2	< 2	< 4	< 2	< 30	< 30	< 12	< 3	< 3	< 3	< 3	< 3	< 3
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	< 2000	< 2000	< 800	**11**	**7.0**	**6.2**	**3.5**	< 150	< 150
Total VOCs	ug/L	**12**	**157**	**416**	**375**	**366**	**246**	**256**	**264**	**140**	**517**	**509**	**462**	**272**	**178**	**164**	**114**	**99**	**71**	**24**	**43**

APPENDIX C
PZ-31S (Burn Pit)
Historical VOC Concentrations

Parameter	Unit	Mar-99	Mar-00	Mar-01	Mar-02	Mar-03	Mar-04	Mar-05	Mar-06	Mar-07	Mar-08	Mar-09	Jun-10	Jun-11	Mar-12	Mar-13	Mar-14	Mar-15	Mar-16	Apr-17	Sep-17	Mar-18	Oct-18	Mar-19	Sep-19
1,1,1-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.2**	**1.3**	**1.4**	**1.1**	**1.2**	**1.3**	**1.3**	**1.40**	**1.30**	**0.98 J**	**1.4**	**0.98 J**
1,1-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 1	**1.1**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	ug/l	**8.8**	**24**	**13**	**16**	**16**	**12**	**20**	**11**	**18**	**29**	**16**	**26**	**33**	**33**	**29**	**26**	**26**	**27**	**31.8**	**35.80**	**16.50**	**13.40**	**30.0**	**19.9**
1,2-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.31 J**	**0.34J**	**0.42 J**	< 1.0	**0.41 J**	<0.34
1,2-Dichloroethene, Total	ug/l	< 5	< 5	< 5	< 5	< 10	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.62 J**	**0.60J**	**0.42 J**	**0.30 J**	**0.52 J**	**0.37 J**
1,2-Dichloropropane	ug/l	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Hexanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acetone	ug/l	< 50	< 50	< 50	< 50	< 50	< 25	< 25	< 25	< 25	< 25	< 5	< 5	< 5	< 5	< 2	< 2	< 2	< 2	< 25	< 25	< 25	< 25	**17.8 J**	< 25
Benzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	ug/l	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5	< 5	< 5
Carbon Disulfide	ug/l	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 2	< 2	< 2	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/l	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	ug/l	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	**0.19 J**	< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 5	< 5	< 5	< 2	< 1	< 1	< 1	--	< 1	--	< 1	< 2	< 2	< 2	< 2	< 2	< 2
Styrene	ug/l	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	**2.0**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.52 J**	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	**2.5**	**3.1**	**2.4**	**17**	**2.6**	**1.8**	**2.1**	**1.9**	**2.0**	**1.7**	**1.3**	< 1	**1.2**	**1.1**	**1.20**	**0.89 J**	**0.59 J**	**1.1**	< 1
Vinyl Chloride	ug/l	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1	< 1	<1
Xylenes, Total	ug/l	< 5	< 10	< 10	< 10	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 1	< 1	< 1	< 1	<1
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	< 200	< 200	< 200	**4.2**	**2.2**	**2.1**	< 5	< 150	< 150	< 150	< 150	< 150	<150
Total VOCs	ug/L	**9**	**24**	**13**	**16**	**16**	**15**	**24**	**13**	**37**	**32**	**18**	**28**	**36**	**36**	**36**	**31**	**29**	**30**	**36**	**39**	**19**	**15**	**51**	**21**

APPENDIX C
PZ-31S (Burn Pit)
Historical VOC Concentrations

Mar-20
<0.061
<0.036
1.1
<0.083
24.0
0.25 J
0.44 J
<0.11
<0.24
<0.065
<0.078
4.0 J
<0.048
<0.062
<0.040
<0.18
<0.075
<0.11
<0.062
<0.22
<0.076
<0.079
<0.079
<0.081
<0.061
<0.083
<0.047
<0.098
<0.044
<0.070
0.67
<0.097
<0.15
1.3 J
32

March 2020

APPENDIX C

North Creek Downstream (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Mar-99	Jun-99	Dec-99	Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jul-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
1,1,1-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
1,1-Dichloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
1,2-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
1,2-Dichloroethene, Total	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 2	< 2	< 2
1,2-Dichloropropane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
2-Butanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10
2-Hexanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10
4-Methyl-2-pentanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10
Acetone	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 25	< 25	< 25
Benzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Bromomethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 1	< 1	< 1
Carbon Disulfide	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Carbon Tetrachloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Chlorobenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 1	< 1	< 1
Chloroform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Chloromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 1	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Ethylbenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Methylene Chloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Tetrachloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Toluene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Trichloroethene	ug/l	**6.5**	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1
Vinyl Chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 1	< 1	< 1
Xylenes, Total	ug/l	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 2	< 2
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/L	**6.5**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

APPENDIX C

North Creek Downstream (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Jun-04	Sep-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09
1,1,1-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene, Total	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5
2-Hexanone	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5
4-Methyl-2-pentanone	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5
Acetone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 5	< 5	< 5
Benzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/l	< 5	< 5	< 5	< 1	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2
Styrene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylenes, Total	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/L	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

APPENDIX C

North Creek Downstream (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Jun-09	Dec-09	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17	Sep-17	Mar-18	Sep-18
1,1,1-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene, Total	ug/l	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Hexanone	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acetone	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**2.2**	< 2	**3.1**	< 2	< 2	**3.3**	< 2	< 25	< 5	< 5	< 5
Benzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Carbon Disulfide	ug/l	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2
Carbon Tetrachloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
Chloroform	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/l	**2.8**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	< 1	--	--	< 2	< 1	< 2	< 2	< 2	< 2
Styrene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
Xylenes, Total	ug/l	< 2	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 1	< 1	< 1
1,4-Dioxane	ug/l	--	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 5	<1.2	**1.7**	< 5	< 5	< 5	**6.6**	< 150	< 150	< 150	< 150
Total VOCs	ug/L	**2.8**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**4.8**	**0**	**0**	**3.3**	**6.6**	**0.0**	**0.0**	**0.0**	**0.0**

APPENDIX C

North Creek Downstream (Burn Pit)
Historical VOC Concentrations

Parameter	Unit	Mar-19	Sep-19	Mar-20
1,1,1-Trichloroethane	ug/l	< 1.0	< 1.0	<0.061
1,1,2,2-Tetrachloroethane	ug/l	< 1.0	< 1.0	<0.036
1,1,2-Trichloroethane	ug/l	< 1.0	< 1.0	<0.066
1,1-Dichloroethane	ug/l	< 1.0	< 1.0	<0.083
1,1-Dichloroethene	ug/l	**0.64 J**	<1.0	**0.40 J**
1,2-Dichloroethane	ug/l	< 1.0	< 1.0	<0.066
1,2-Dichloroethene, Total	ug/l	< 1.0	< 1.0	<0.094
1,2-Dichloropropane	ug/l	< 1.0	< 1.0	<0.11
2-Butanone	ug/l	< 5.0	< 5.0	<0.24
2-Hexanone	ug/l	< 5.0	< 5.0	<0.065
4-Methyl-2-pentanone	ug/l	< 5.0	< 5.0	<0.078
Acetone	ug/l	< 5.0	< 5.0	<0.31
Benzene	ug/l	< 1.0	< 1.0	<0.048
Bromodichloromethane	ug/l	< 1.0	< 1.0	<0.062
Bromoform	ug/l	< 1.0	< 1.0	<0.040
Bromomethane	ug/l	< 5.0	< 5.0	<0.18
Carbon Disulfide	ug/l	< 2.0	< 2.0	<0.075
Carbon Tetrachloride	ug/l	< 1.0	< 1.0	<0.11
Chlorobenzene	ug/l	< 1.0	< 1.0	<0.062
Chloroethane	ug/l	< 1.0	< 1.0	<0.22
Chloroform	ug/l	< 1.0	< 1.0	<0.076
Chloromethane	ug/l	< 1.0	< 1.0	<0.079
cis-1,3-Dichloropropene	ug/l	< 1.0	< 1.0	<0.079
Dibromochloromethane	ug/l	< 1.0	< 1.0	<0.081
Ethylbenzene	ug/l	< 1.0	< 1.0	<0.061
Methylene Chloride	ug/l	< 2.0	< 2.0	<0.083
Styrene	ug/l	< 1.0	< 1.0	<0.047
Tetrachloroethene	ug/l	< 1.0	< 1.0	<0.098
Toluene	ug/l	< 1.0	< 1.0	<0.044
trans-1,3-Dichloropropene	ug/l	< 1.0	< 1.0	<0.070
Trichloroethene	ug/l	< 1.0	< 1.0	**0.28 J**
Vinyl Chloride	ug/l	< 1.0	< 1.0	<0.097
Xylenes, Total	ug/l	< 1.0	< 1.0	<0.15
1,4-Dioxane	ug/l	< 150	< 150	<0.14
Total VOCs	ug/L	**0.6**	**0.0**	**0.7**

APPENDIX C

North Creek Upstream (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Mar-99	Jun-99	Dec-99	Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jul-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03
1,1,1-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
1,1-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
1,1-Dichloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
1,2-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
1,2-Dichloroethene, Total	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 2	< 2
1,2-Dichloropropane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
2-Butanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10
2-Hexanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10
4-Methyl-2-pentanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10
Acetone	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 25	< 25
Benzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
Bromodichloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
Bromomethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 1	< 1
Carbon Disulfide	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
Carbon Tetrachloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
Chlorobenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 1	< 1
Chloroform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
Chloromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
Dibromochloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
Ethylbenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
Methylene Chloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
Tetrachloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
Toluene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
Trichloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1
Vinyl Chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 1	< 1
Xylenes, Total	ug/l	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 2
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX C

North Creek Upstream (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Mar-04	Jun-04	Sep-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08
1,1,1-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	ug/l	< 1	< 1	< 1	**1.1**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene, Total	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1
1,2-Dichloropropane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5
2-Hexanone	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5
4-Methyl-2-pentanone	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5
Acetone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 5	< 5
Benzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	ug/l	< 1	**2.1**	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5
Carbon Tetrachloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/l	< 5	< 5	< 5	< 5	< 1	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 2
Styrene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylenes, Total	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/L	**0**	**2.1**	**0**	**1.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

APPENDIX C

North Creek Upstream (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Mar-09	Jun-09	Dec-09	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17	Sep-17	Mar-18
1,1,1-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	ug/l	< 1	**1.1**	< 1	< 1	**1.1**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.78 J**	**0.78 J**	**0.58 J**
1,2-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene, Total	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Hexanone	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acetone	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	**3.9**	< 2	< 2	< 2	< 2	< 2	< 25	< 25	< 25
Benzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 5
Carbon Disulfide	ug/l	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.0**	< 1	< 2	< 2	< 2
Carbon Tetrachloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1
Chloroform	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	**0.12 J**	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/l	< 2	**2.7**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	< 1	--	--	< 2	< 1	< 2	< 2	< 2
Styrene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1
Xylenes, Total	ug/l	< 2	< 2	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 1	< 1
1,4-Dioxane	ug/l	--	--	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 5	<1.2	< 5	< 5	< 5	< 5	< 5	< 150	< 150	< 150
Total VOCs	ug/L	**0**	**3.8**	**0**	**0**	**1.1**	**0**	**0**	**0**	**0**	**0**	**3.9**	**0**	**0**	**0**	**1.0**	**0**	**0.90**	**0.78**	**0.58**

APPENDIX C

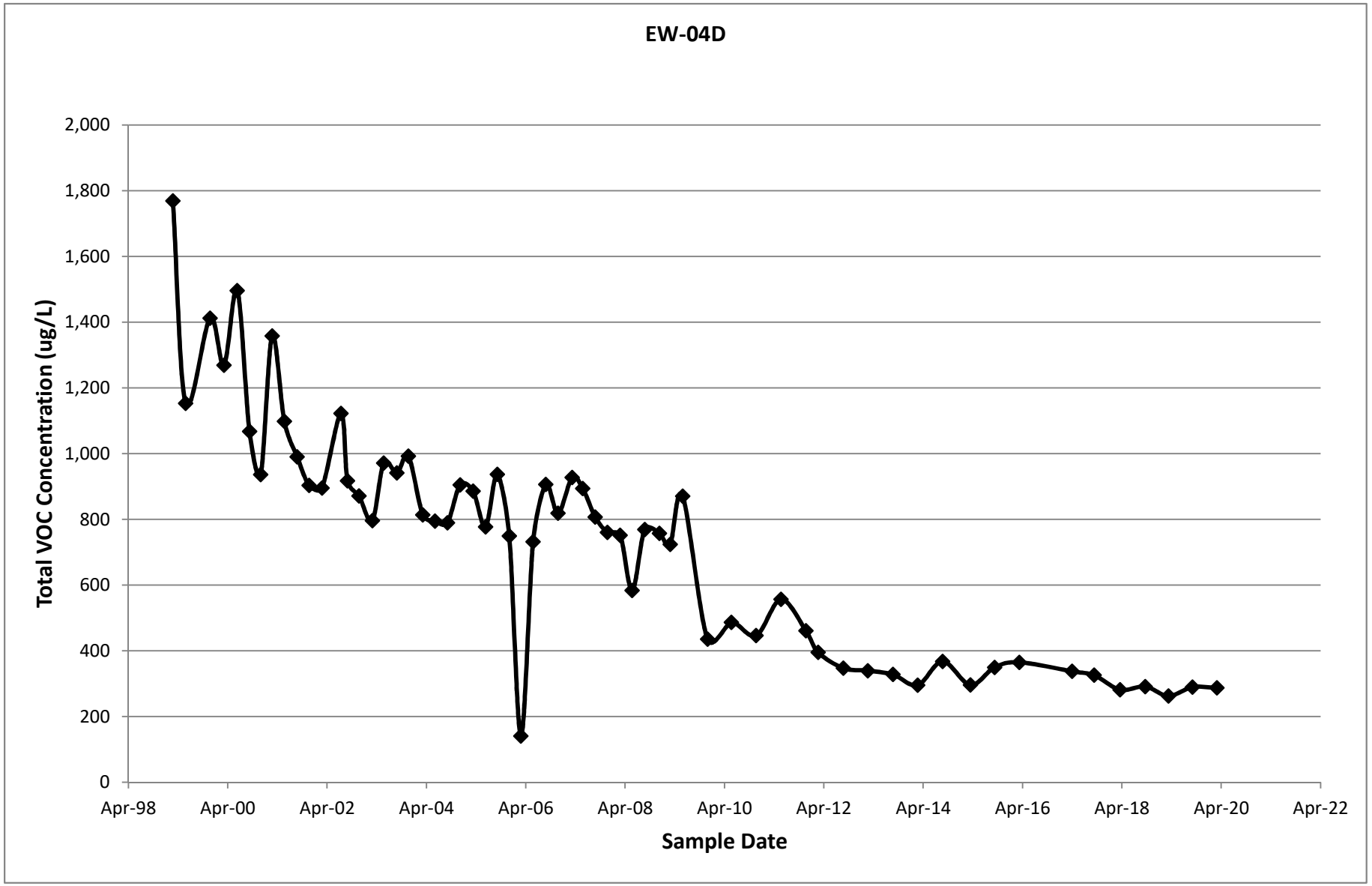
North Creek Upstream (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Sep-18	Mar-19	Sep-19	Mar-20
1,1,1-Trichloroethane	ug/l	< 1	< 1.0	< 1.0	<0.061
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1.0	< 1.0	<0.036
1,1,2-Trichloroethane	ug/l	< 1	< 1.0	< 1.0	<0.066
1,1-Dichloroethane	ug/l	< 1	< 1.0	< 1.0	<0.083
1,1-Dichloroethene	ug/l	**0.91 J**	**0.76 J**	**0.70 J**	**0.51**
1,2-Dichloroethane	ug/l	< 1	< 1.0	< 1.0	<0.066
1,2-Dichloroethene, Total	ug/l	< 1	< 1.0	< 1.0	<0.094
1,2-Dichloropropane	ug/l	< 1	< 1.0	< 1.0	<0.11
2-Butanone	ug/l	< 5	< 5.0	< 5.0	<0.24
2-Hexanone	ug/l	< 5	< 5.0	< 5.0	<0.065
4-Methyl-2-pentanone	ug/l	< 5	< 5.0	< 5.0	<0.078
Acetone	ug/l	< 25	< 25	< 25	<0.31
Benzene	ug/l	< 1	< 1.0	< 1.0	<0.048
Bromodichloromethane	ug/l	< 1	< 1.0	< 1.0	<0.062
Bromoform	ug/l	< 1	< 1.0	< 1.0	<0.040
Bromomethane	ug/l	< 5	< 5.0	< 5.0	<0.18
Carbon Disulfide	ug/l	< 2	< 2.0	< 2.0	<0.075
Carbon Tetrachloride	ug/l	< 1	< 1.0	< 1.0	<0.11
Chlorobenzene	ug/l	< 1	< 1.0	< 1.0	<0.062
Chloroethane	ug/l	< 1	< 1.0	< 1.0	<0.22
Chloroform	ug/l	< 1	< 1.0	< 1.0	<0.076
Chloromethane	ug/l	< 1	< 1.0	< 1.0	<0.079
cis-1,3-Dichloropropene	ug/l	< 1	< 1.0	< 1.0	<0.079
Dibromochloromethane	ug/l	< 1	< 1.0	< 1.0	<0.081
Ethylbenzene	ug/l	< 1	< 1.0	< 1.0	<0.061
Methylene Chloride	ug/l	< 2	< 2.0	< 2.0	<0.083
Styrene	ug/l	< 1	< 1.0	< 1.0	<0.047
Tetrachloroethene	ug/l	< 1	< 1.0	< 1.0	<0.098
Toluene	ug/l	< 1	< 1.0	< 1.0	<0.044
trans-1,3-Dichloropropene	ug/l	< 1	< 1.0	< 1.0	<0.070
Trichloroethene	ug/l	< 1	< 1.0	< 1.0	<0.078
Vinyl Chloride	ug/l	< 1	< 1.0	< 1.0	<0.097
Xylenes, Total	ug/l	< 1	< 1.0	< 1.0	<0.15
1,4-Dioxane	ug/l	< 150	< 150	< 150	<0.14
Total VOCs	ug/L	**0.91**	**0.76**	**0.70**	**0.51**

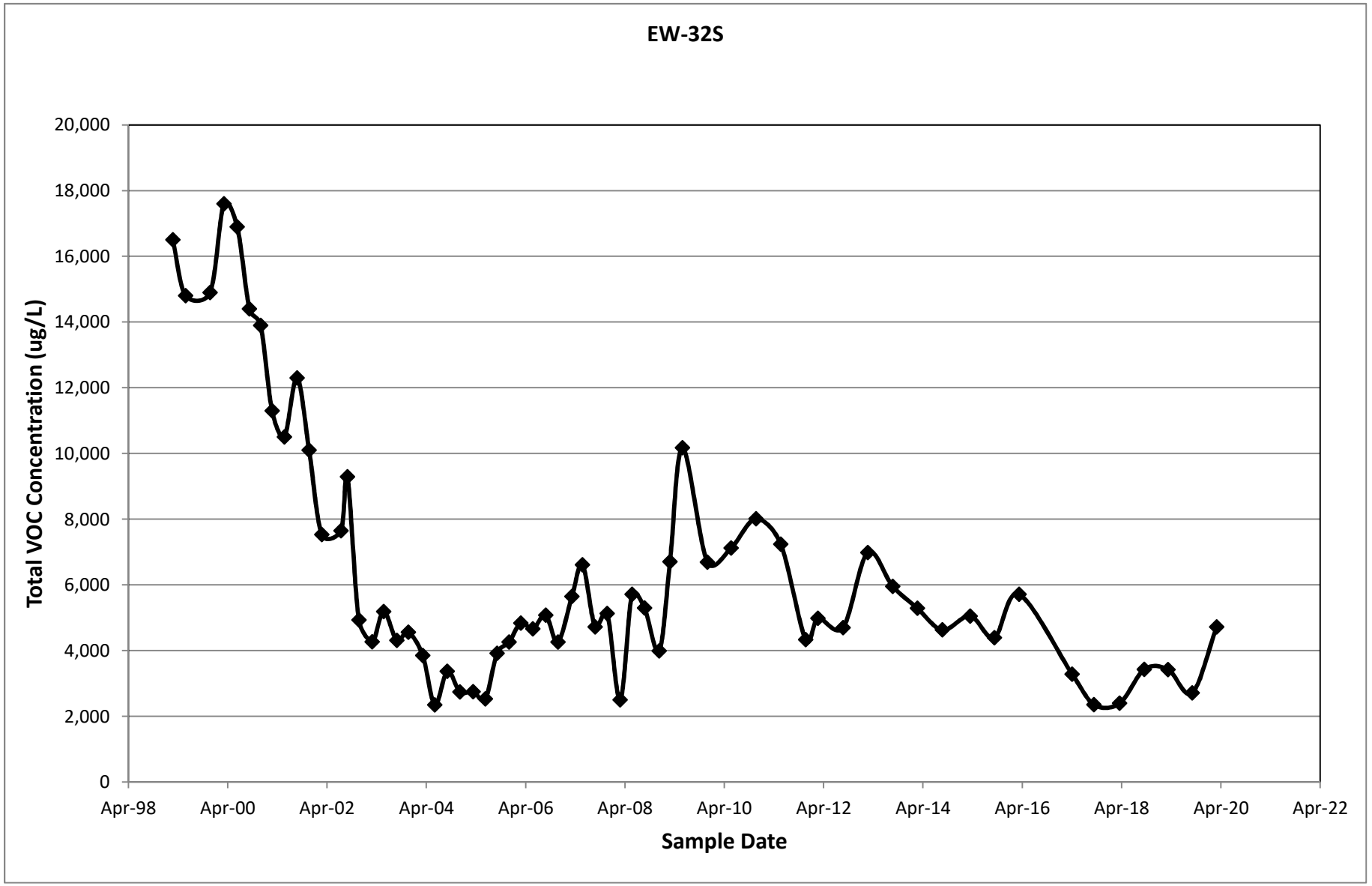
APPENDIX C

Burn Pit Total VOC Concentration Graphs



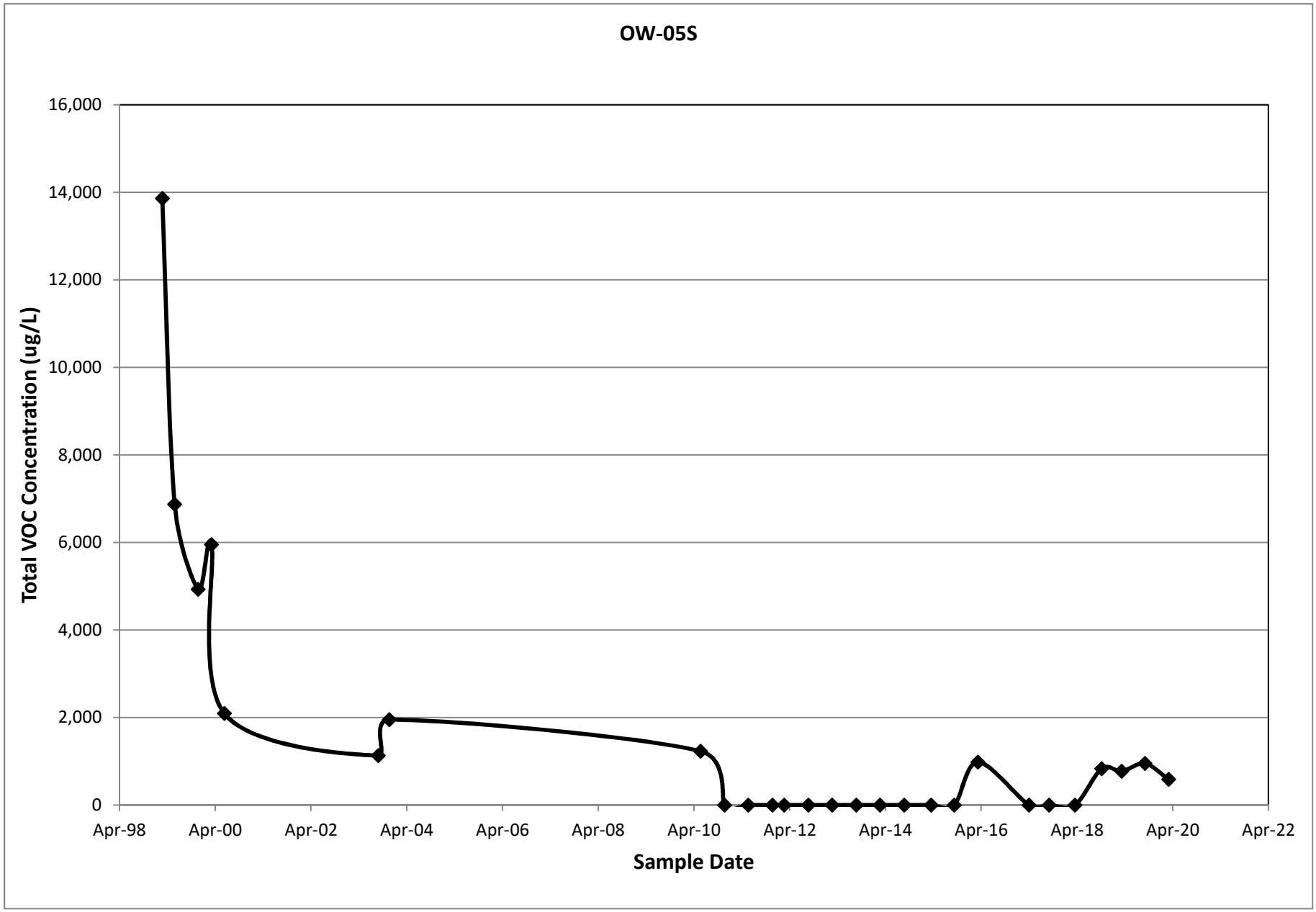
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Burn Pit Total VOC Concentration Graphs



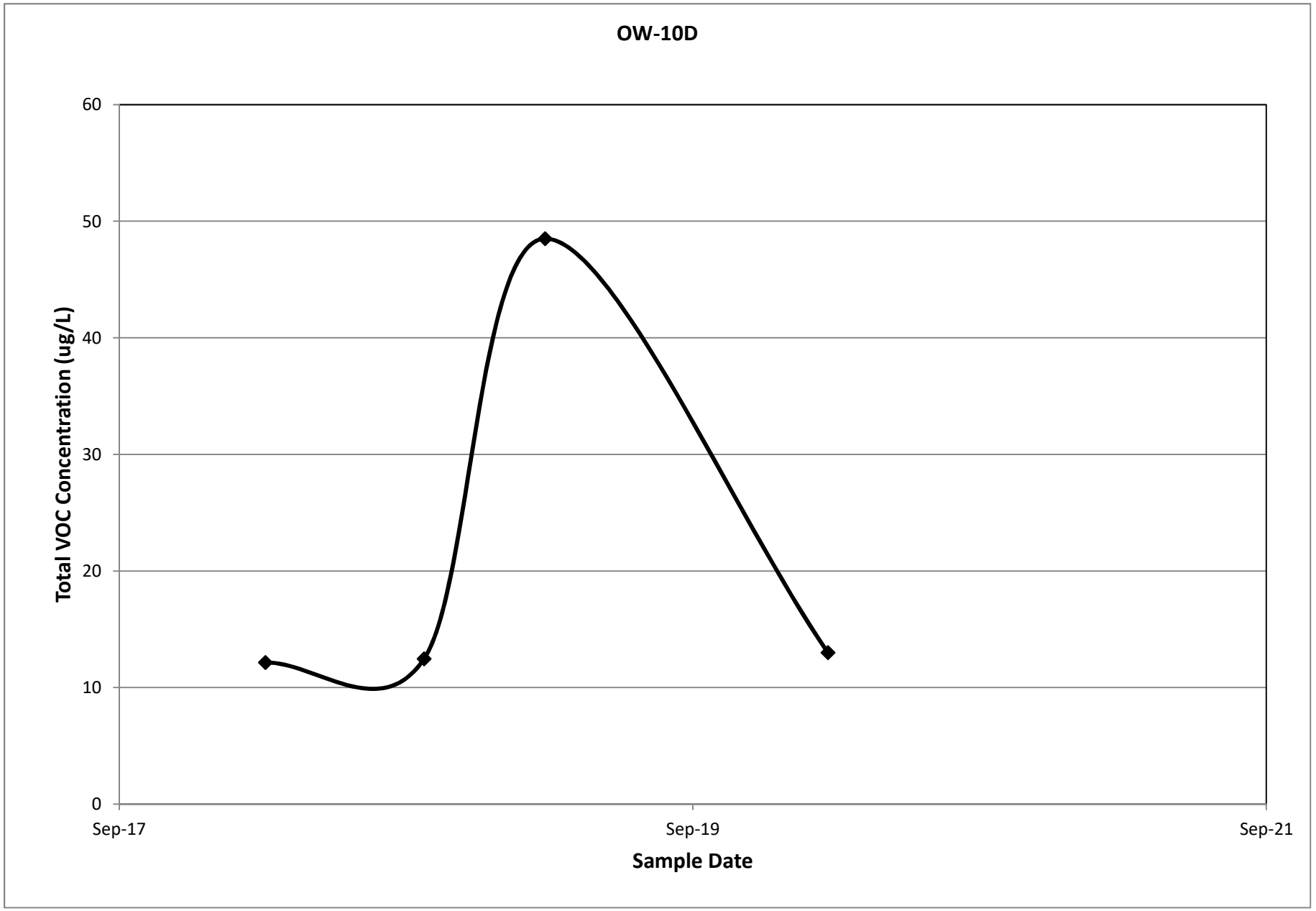
APPENDIX C

Burn Pit Total VOC Concentration Graphs



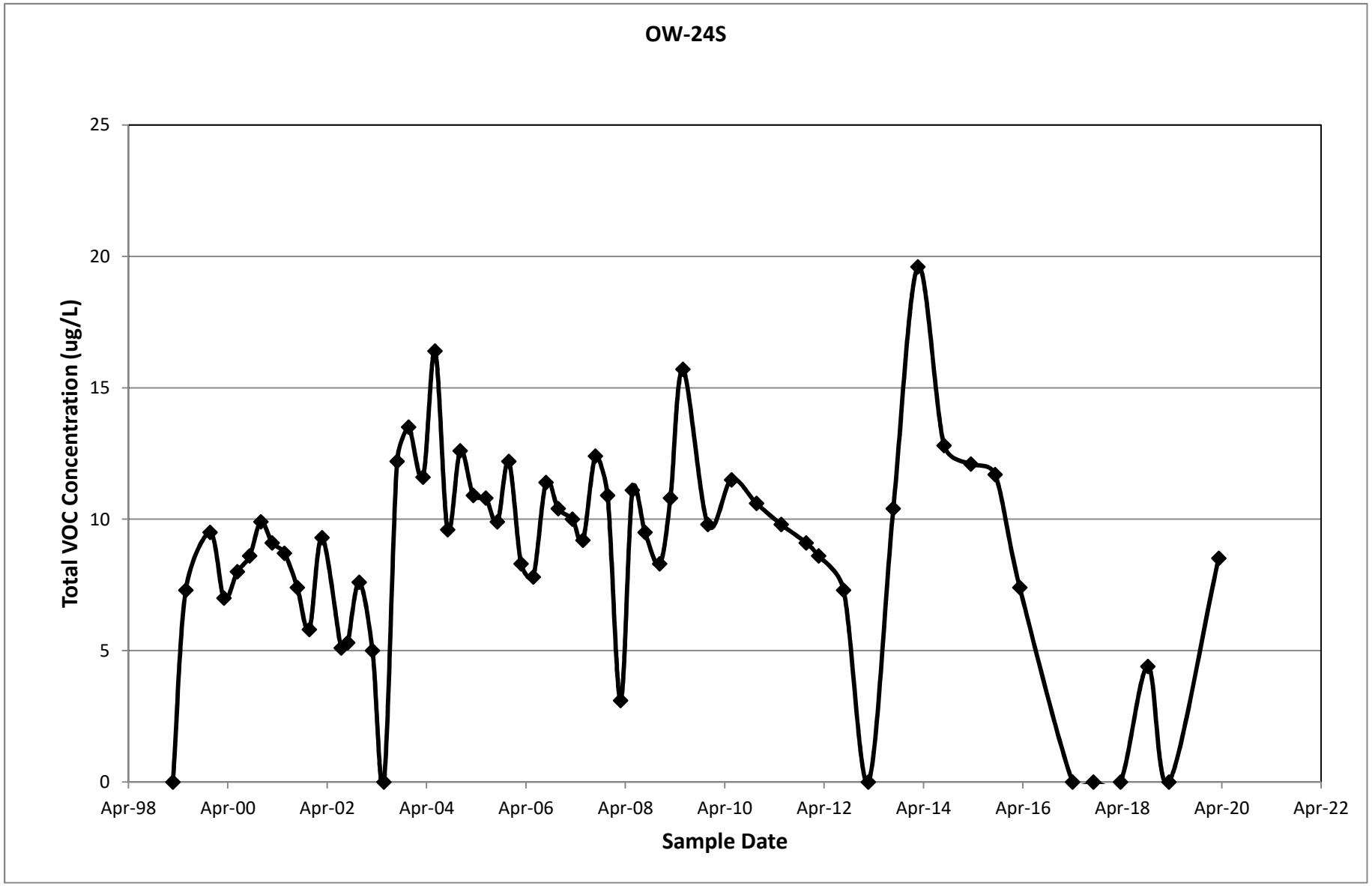
APPENDIX C

Burn Pit Total VOC Concentration Graphs



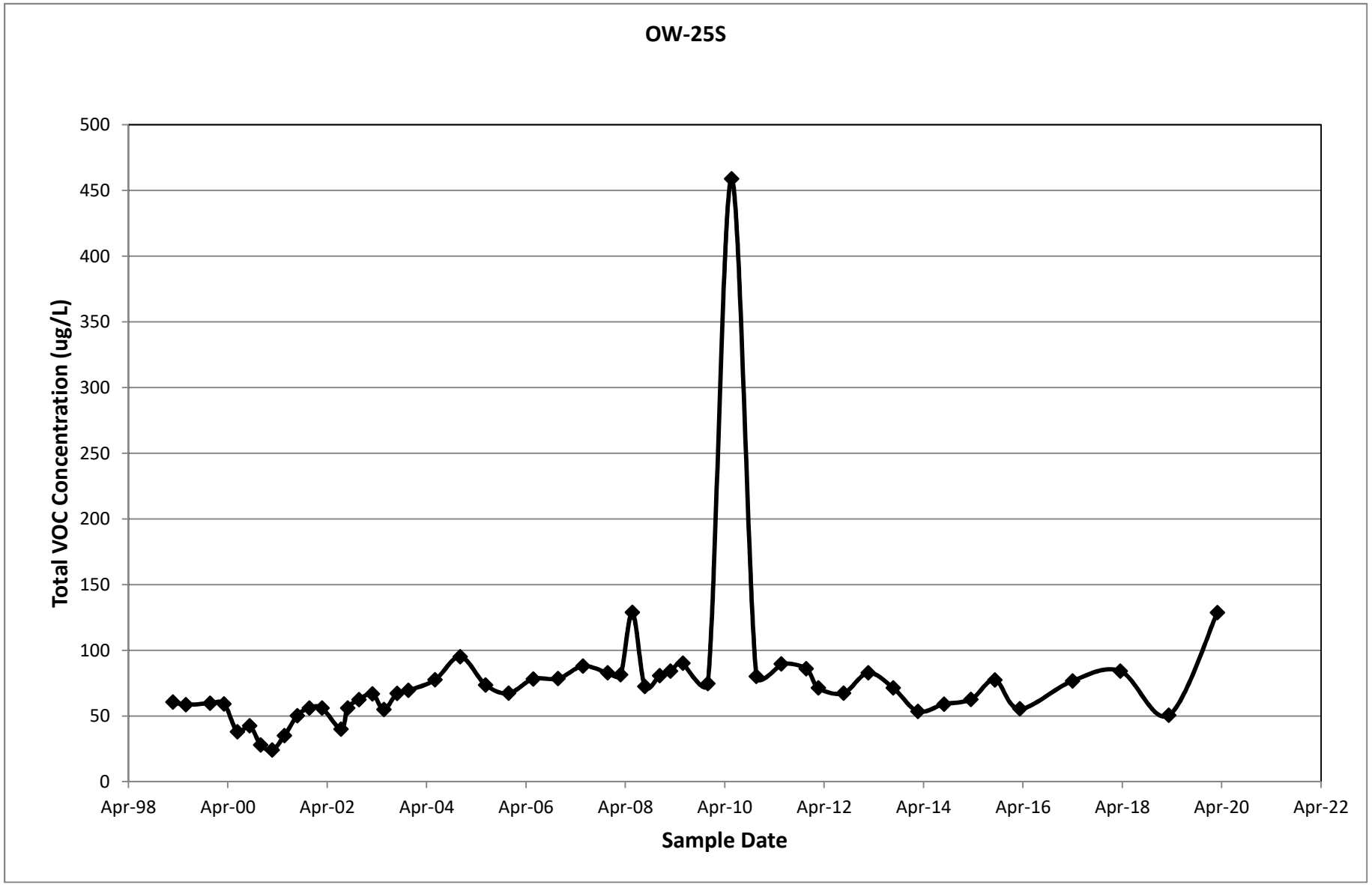
APPENDIX C

Burn Pit Total VOC Concentration Graphs



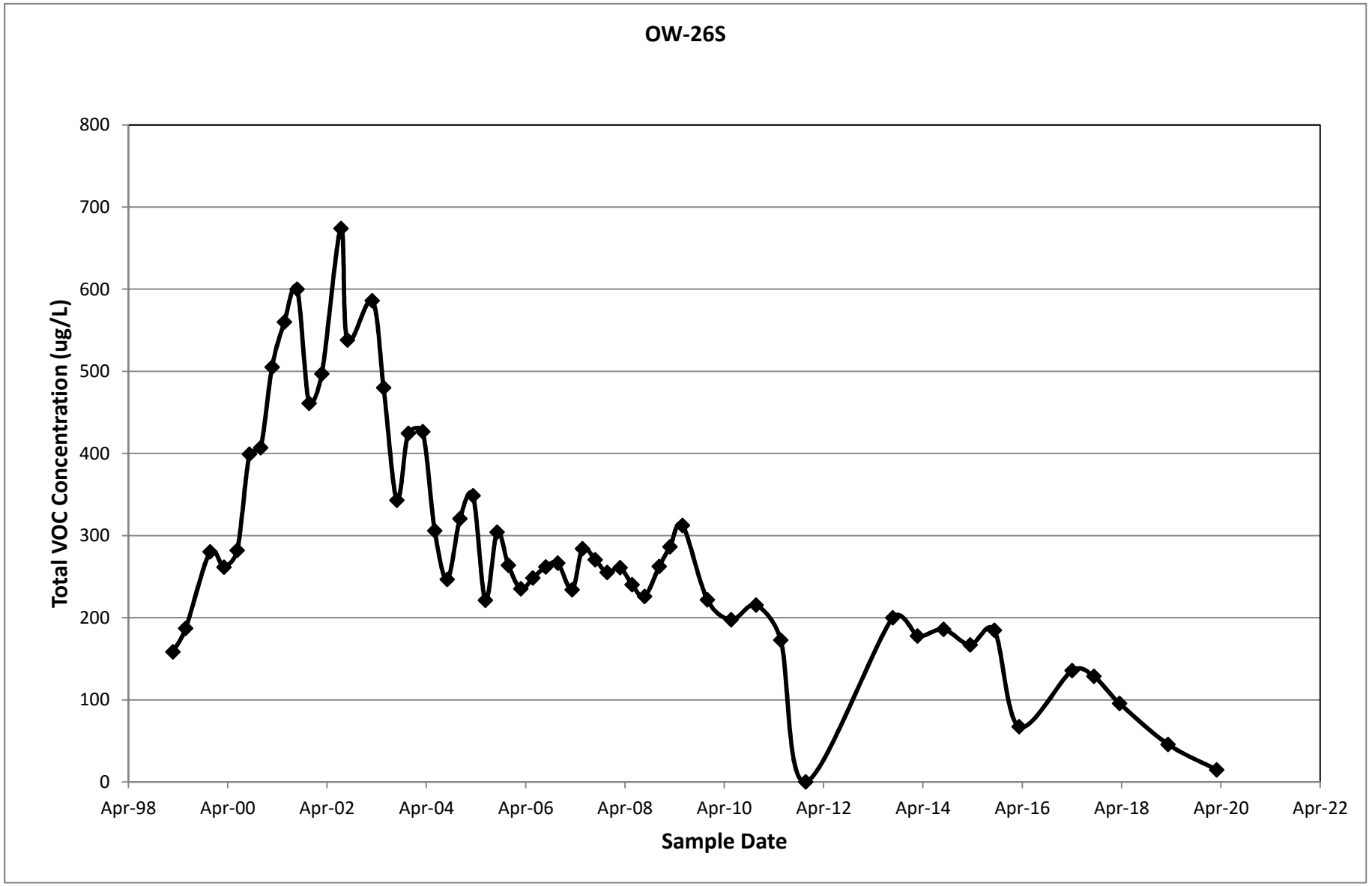
APPENDIX C

Burn Pit Total VOC Concentration Graphs



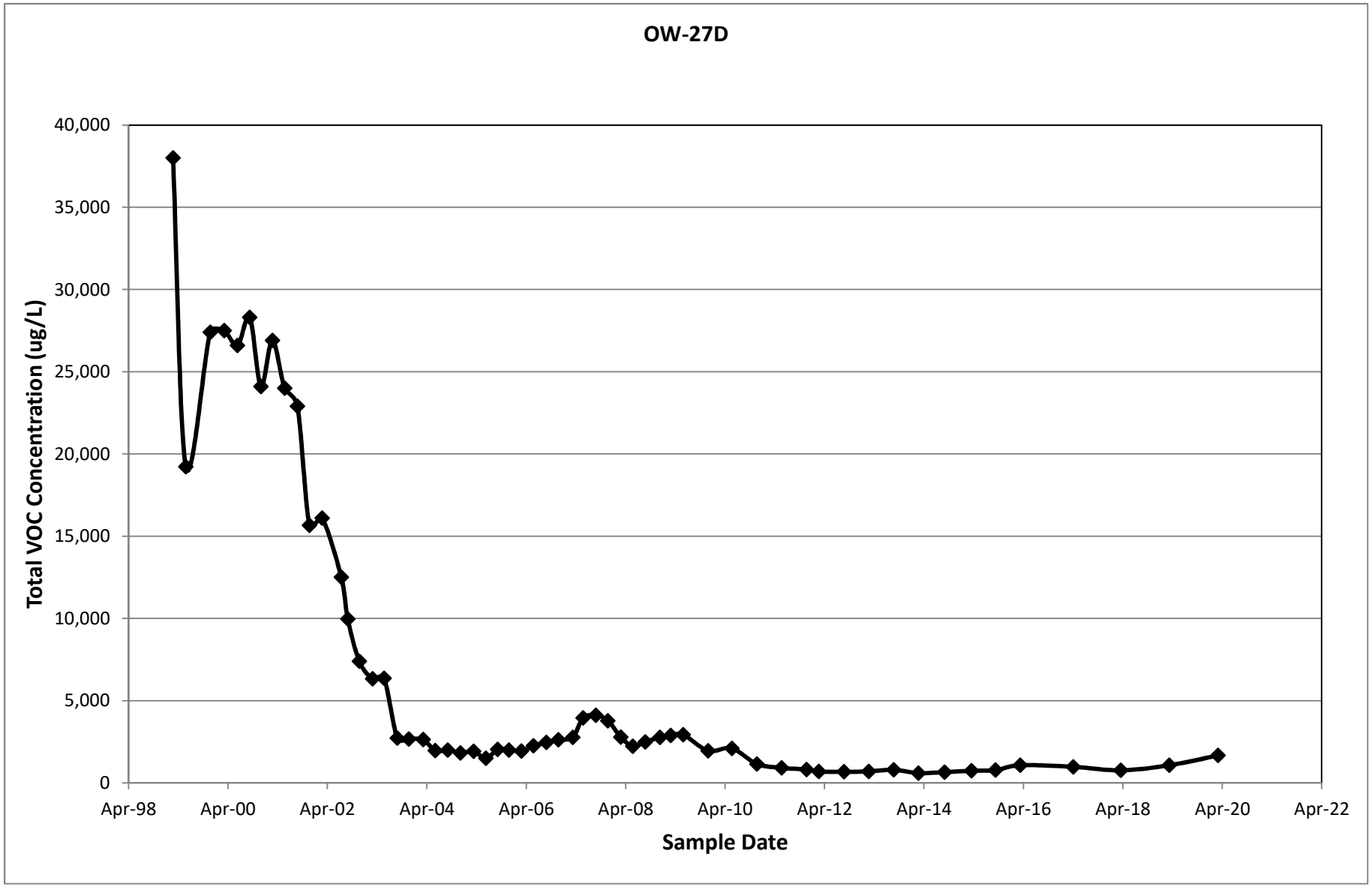
APPENDIX C

Burn Pit Total VOC Concentration Graphs



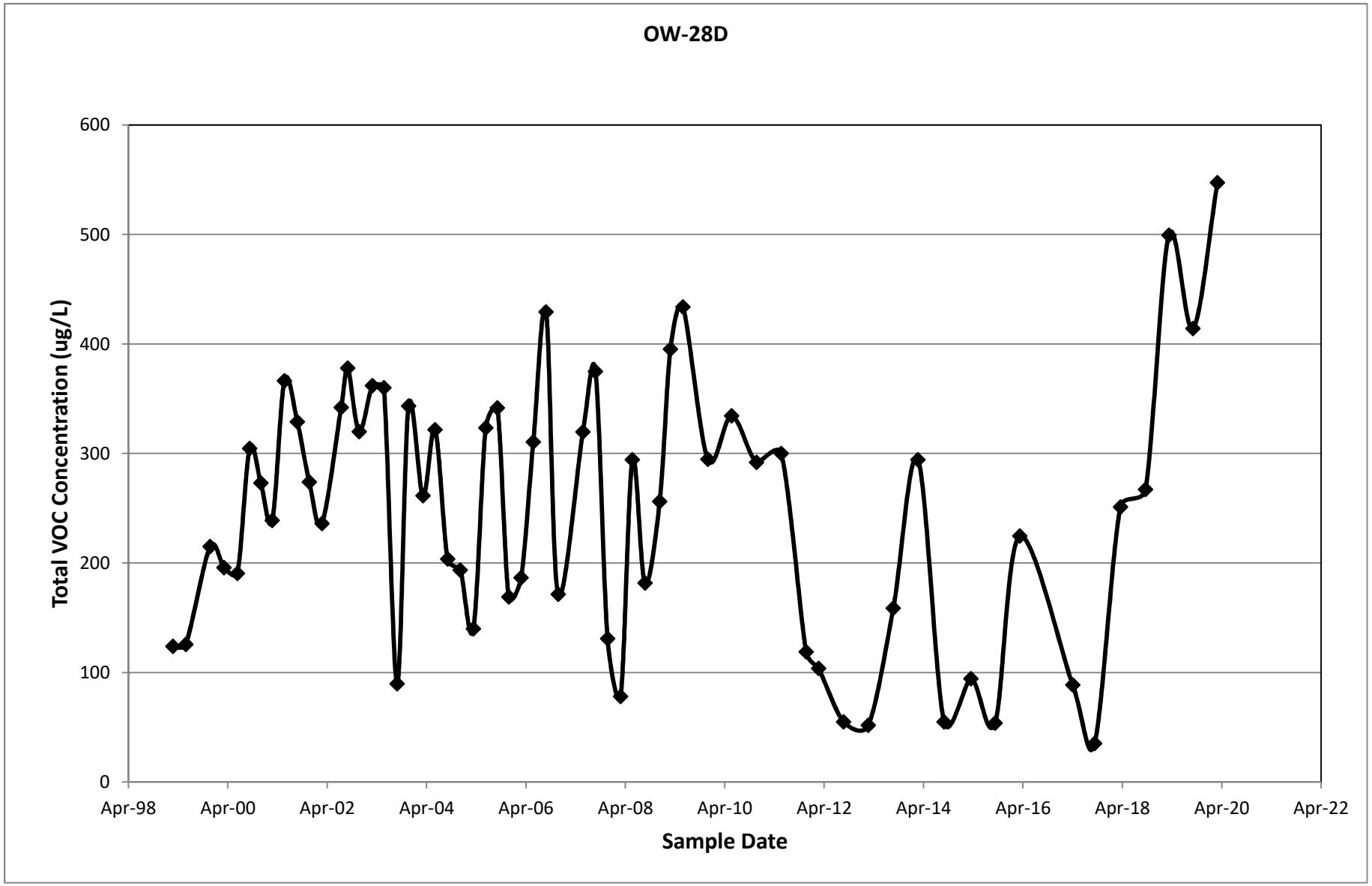
APPENDIX C

Burn Pit Total VOC Concentration Graphs



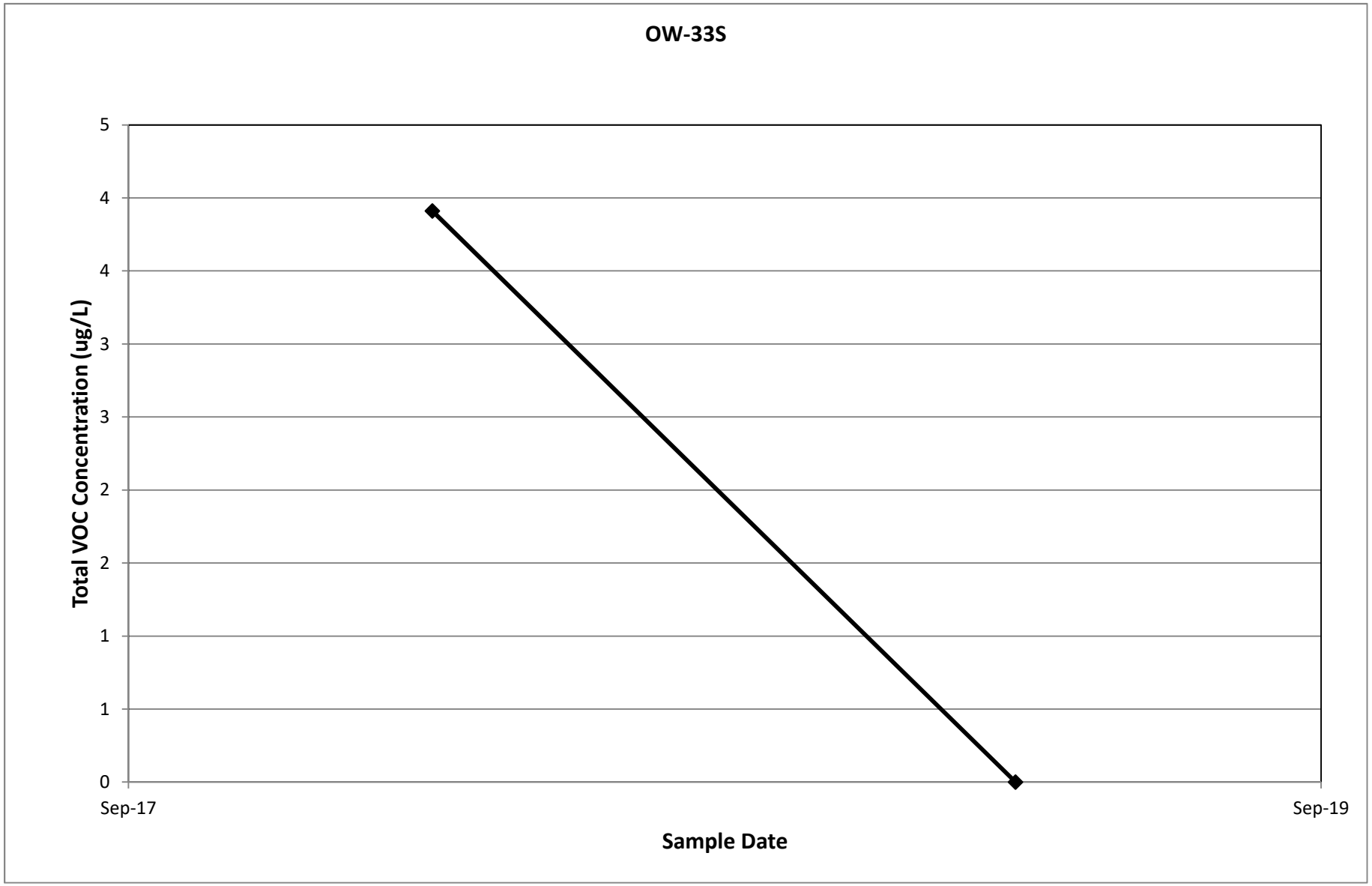
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Burn Pit Total VOC Concentration Graphs



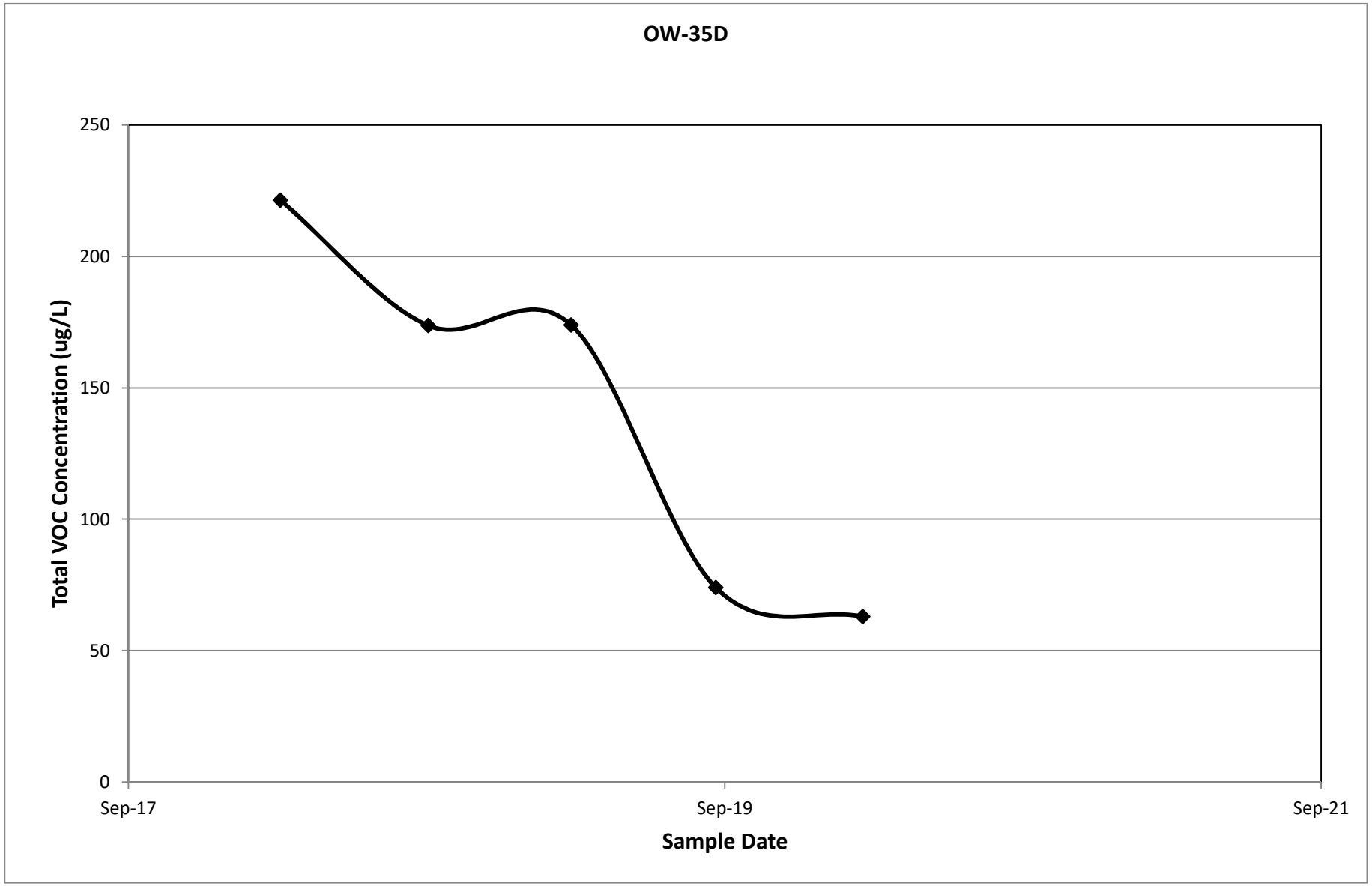
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Burn Pit Total VOC Concentration Graphs



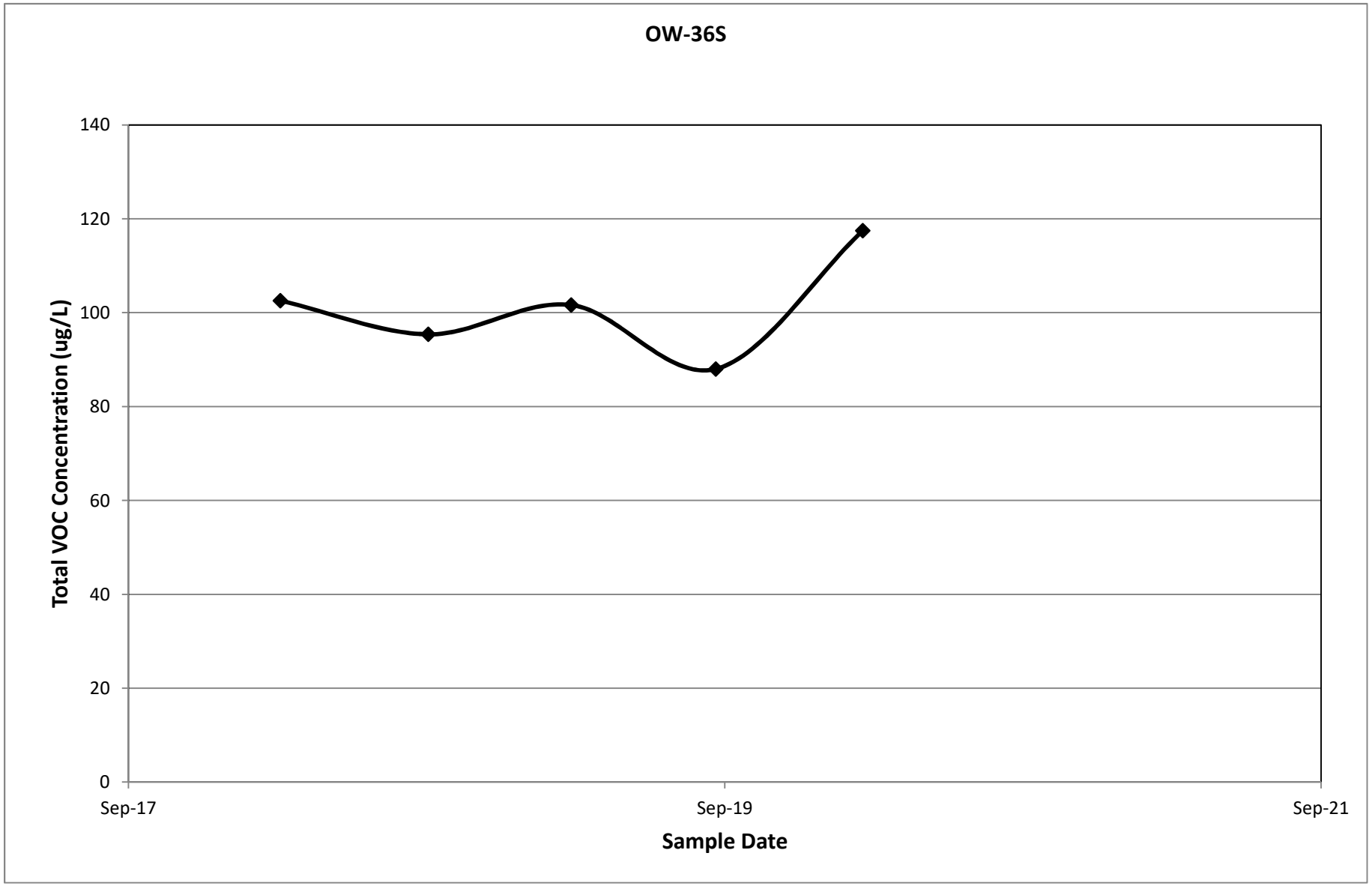
APPENDIX C

Burn Pit Total VOC Concentration Graphs



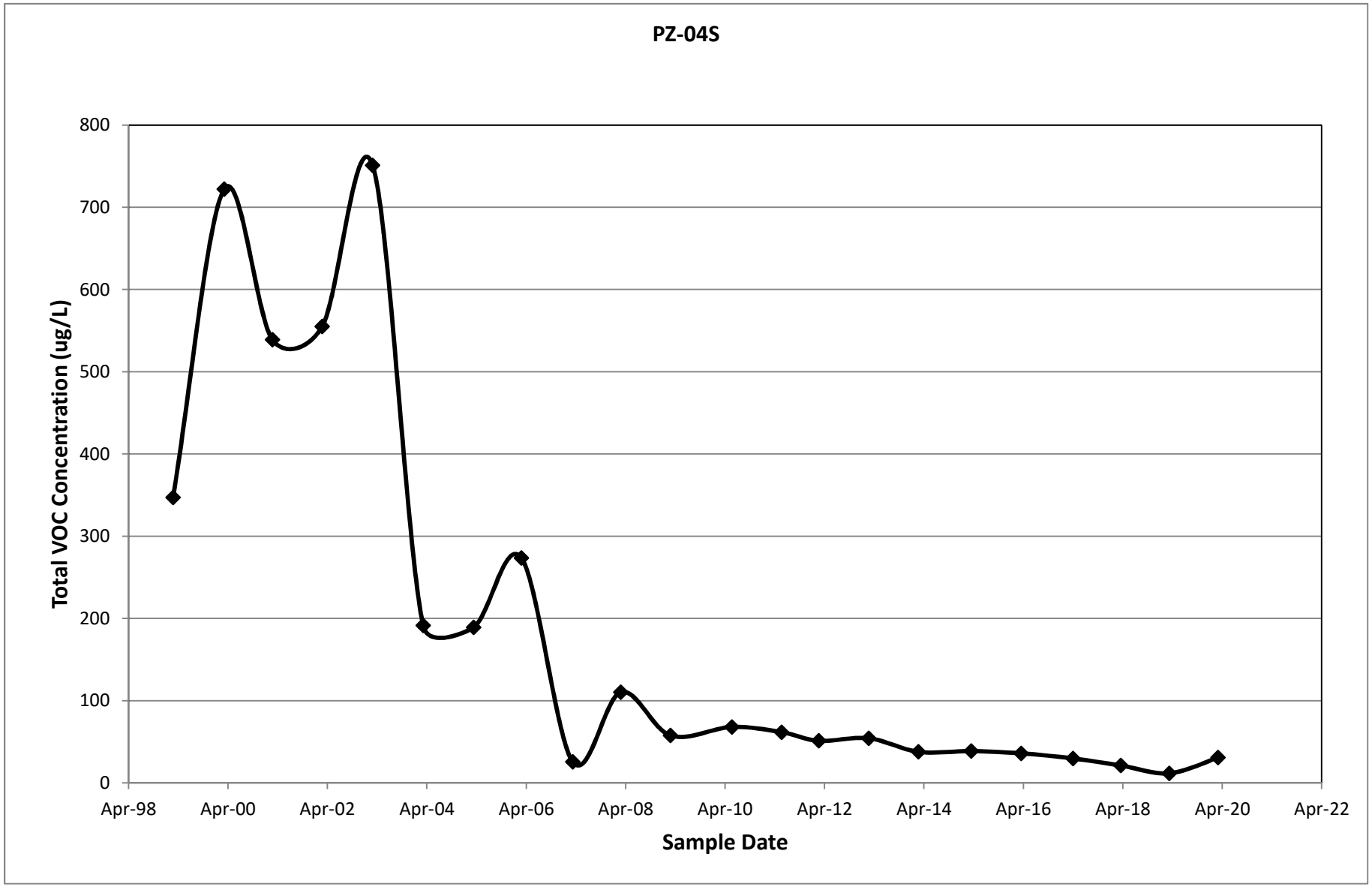
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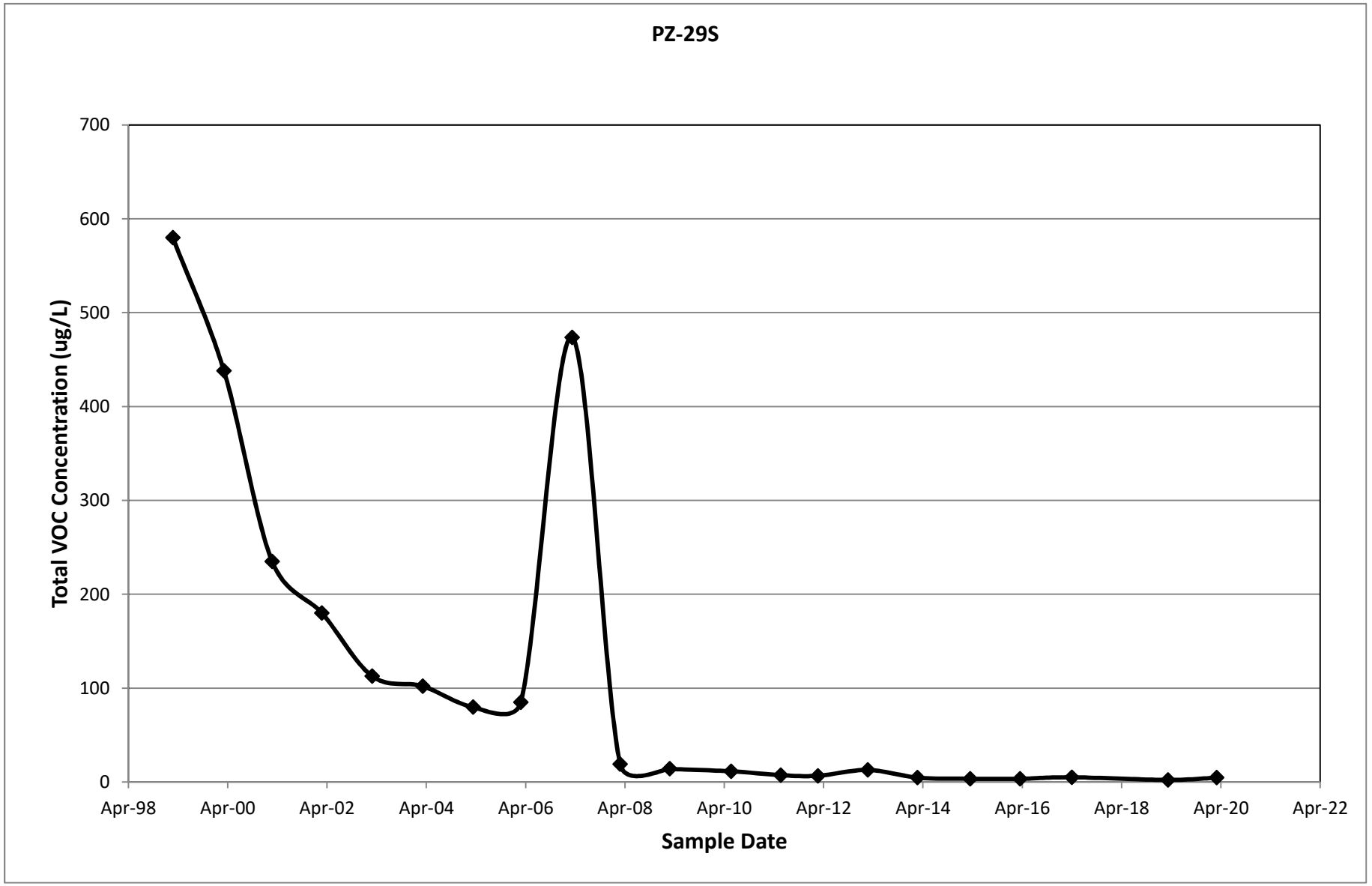
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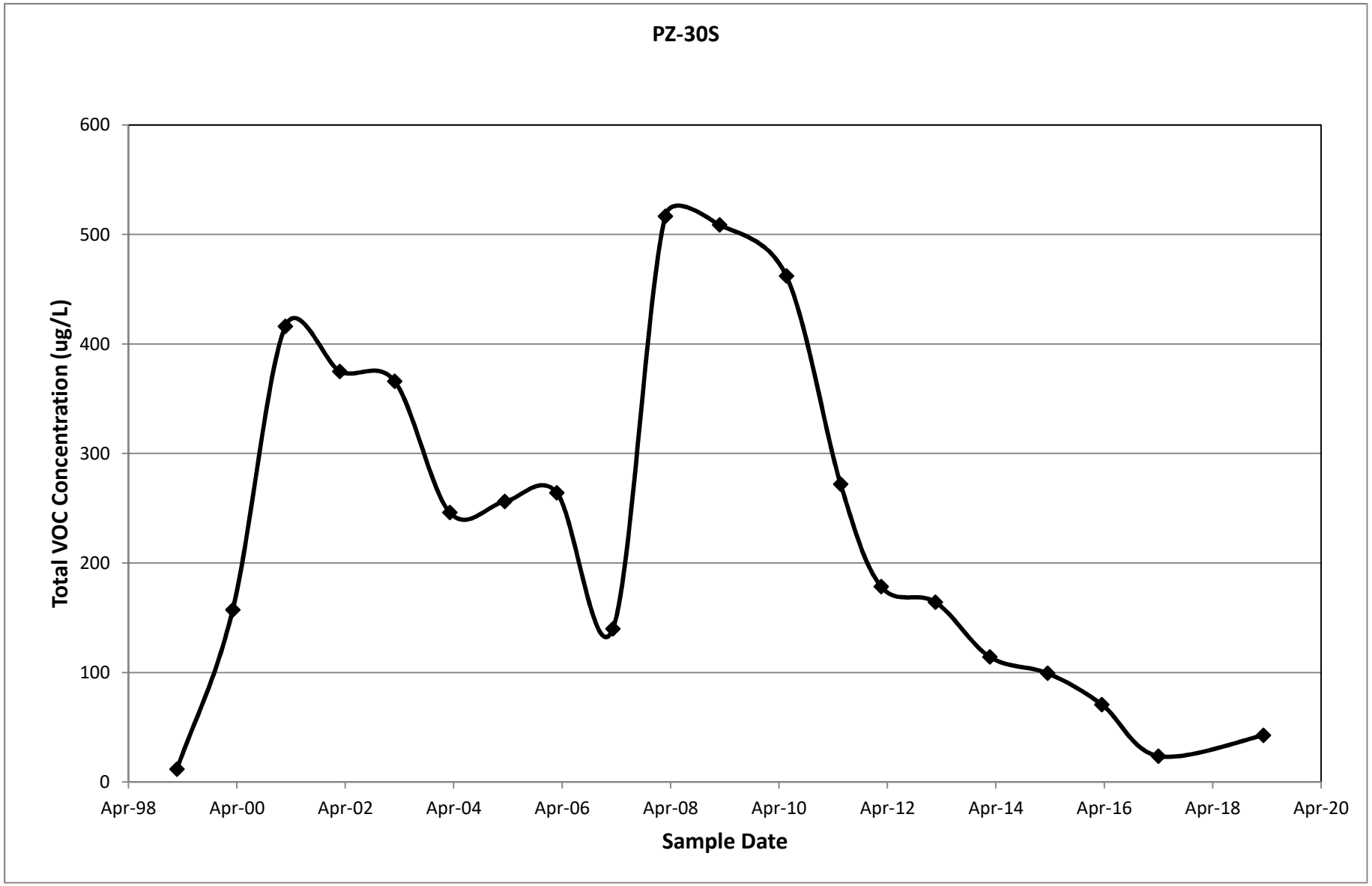
APPENDIX C

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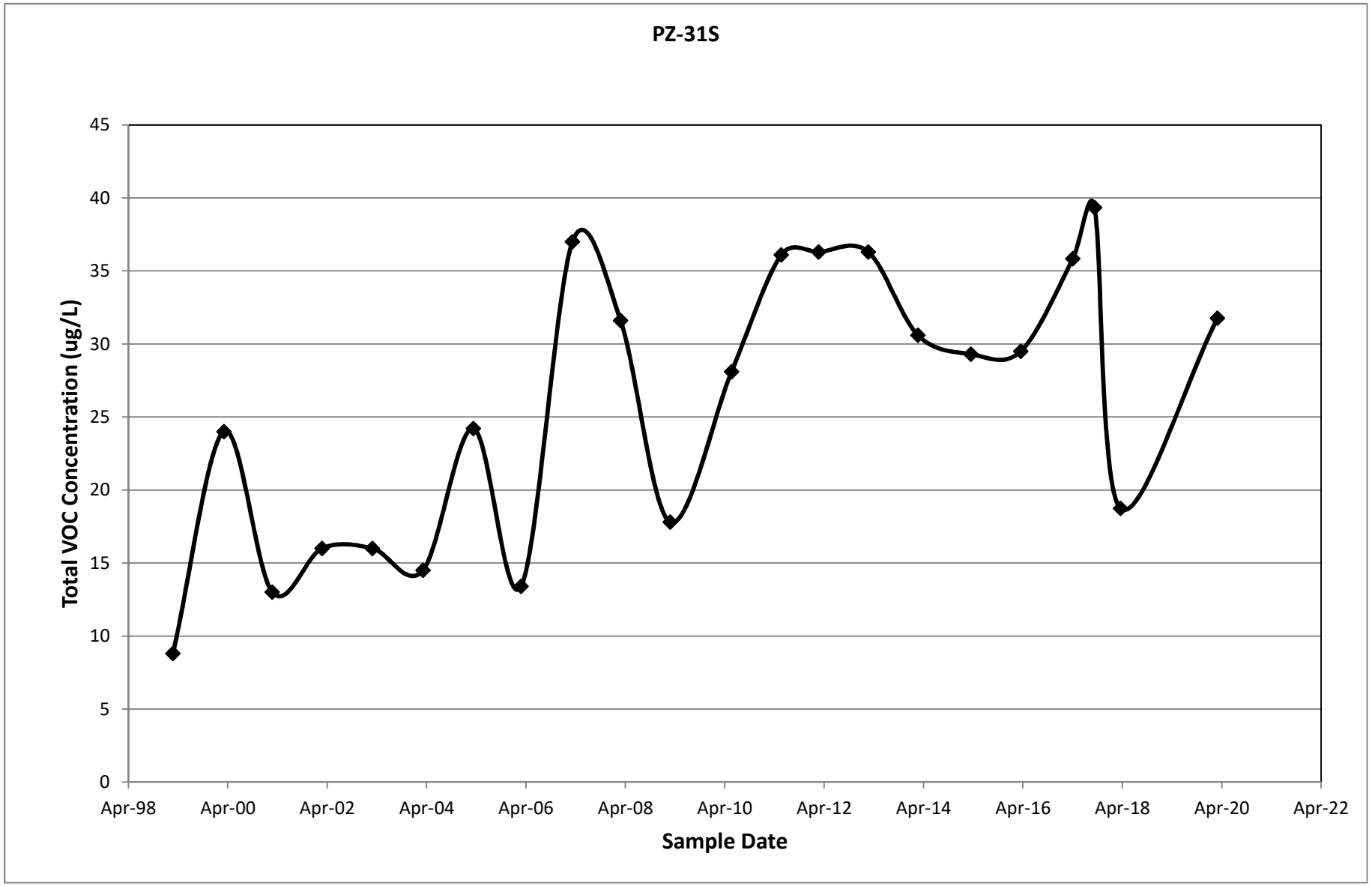
APPENDIX C

Burn Pit Total VOC Concentration Graphs



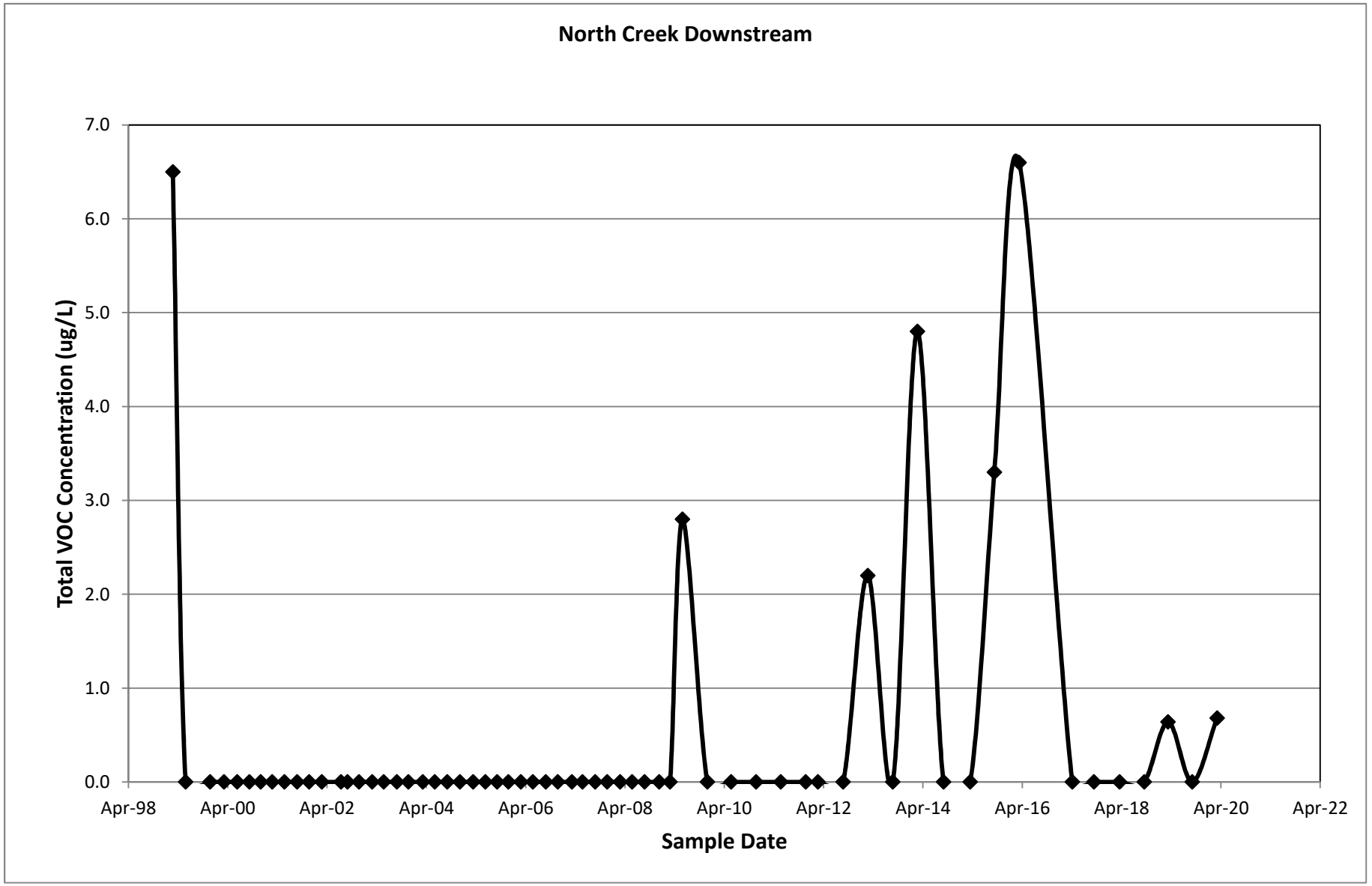
APPENDIX C

Burn Pit Total VOC Concentration Graphs



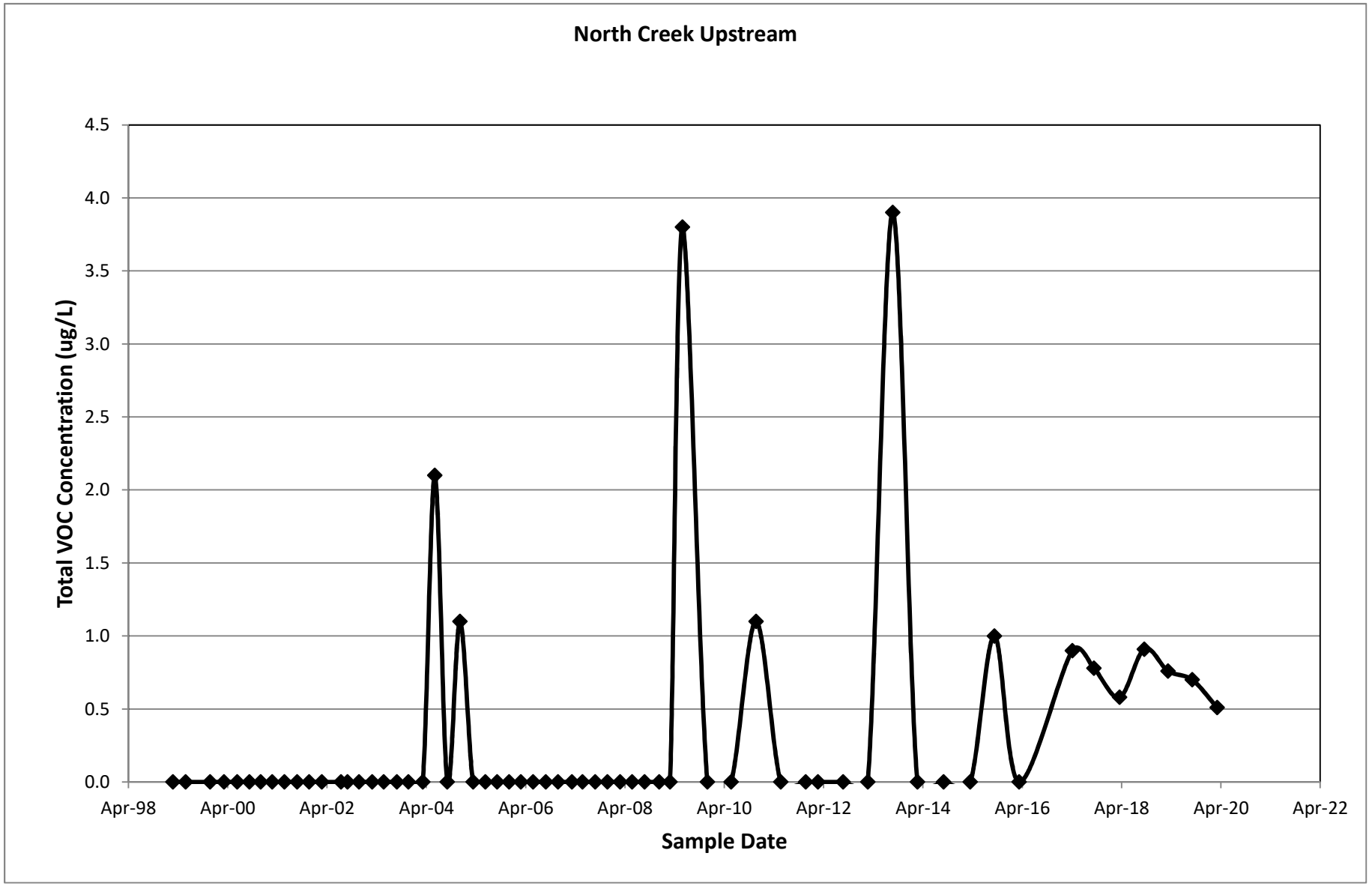
APPENDIX C

Burn Pit Total VOC Concentration Graphs



APPENDIX C

Burn Pit Total VOC Concentration Graphs



APPENDIX C

EW-01B (CDS)

Historical VOC Concentrations

Parameter	Unit	Jun-99	Dec-99	Jun-00	Dec-00	Jun-01	Dec-01	Jul-02	Dec-02	Dec-03	Jun-04	Dec-04	Jun-05	Dec-05	Jun-06	Dec-06
1,1,1-Trichloroethane	ug/l	**4200**	**3600**	**71**	**2800**	**3600**	**2600**	**2500**	**480**	**600**	**2100**	**3100**	**2100**	**2800**	**880**	**760**
1,1,2,2-Tetrachloroethane	ug/l	< 120	< 120	< 5	< 100	< 200	< 100	< 100	< 20	< 5	< 50	< 50	< 20	< 20	< 10	< 10
1,1,2-Trichloroethane	ug/l	< 120	< 120	< 5	< 100	< 200	< 100	< 100	< 20	< 5	< 50	< 50	< 20	< 20	< 10	< 10
1,1-Dichloroethane	ug/l	**1000**	**670**	**200**	**570**	**520**	**530**	**560**	**140**	**120**	**420**	**360**	**200**	**190**	**170**	**65**
1,1-Dichloroethene	ug/l	**1100**	**760**	**39**	**540**	**680**	**740**	**670**	**110**	**140**	**480**	**580**	**240**	**270**	**190**	< 10
1,2-Dichloroethane	ug/l	< 120	< 120	< 5	< 100	< 200	< 100	< 100	< 20	< 5	< 50	< 50	< 20	< 20	< 10	< 10
1,2-Dichloroethene, Total	ug/l	**700**	**590**	**130**	**480**	**470**	**430**	**590**	**110**	**110**	**390**	**340**	**160**	**220**	**210**	**110**
1,2-Dichloropropane	ug/l	< 120	< 120	< 5	< 100	< 200	< 100	< 100	< 20	< 5	< 50	< 50	< 20	< 20	< 10	< 10
2-Butanone	ug/l	< 620	< 620	< 25	< 500	< 1000	< 500	< 500	< 100	< 50	< 500	< 500	< 200	< 200	< 100	< 100
2-Hexanone	ug/l	< 620	< 620	< 25	< 500	< 1000	< 500	< 500	< 100	< 50	< 500	< 500	< 200	< 200	< 100	< 100
4-Methyl-2-pentanone	ug/l	< 620	< 620	< 25	< 500	< 1000	< 500	< 500	< 100	< 50	< 500	< 500	< 200	< 200	< 100	< 100
Acetone	ug/l	< 1200	< 1200	< 50	< 1000	< 2000	< 1000	< 1000	< 200	< 120	< 1200	< 1200	< 500	< 500	< 250	< 250
Benzene	ug/l	< 120	< 120	< 5	< 100	< 200	< 100	< 100	< 20	< 5	< 50	< 50	< 20	< 20	< 10	< 10
Bromodichloromethane	ug/l	< 120	< 120	< 5	< 100	< 200	< 100	< 100	< 20	< 5	< 50	< 50	< 20	< 20	< 10	< 10
Bromoform	ug/l	< 120	< 120	< 5	< 100	< 200	< 100	< 100	< 20	< 5	< 50	< 50	< 20	< 20	< 10	< 10
Bromomethane	ug/l	< 250	< 250	< 10	< 200	< 400	< 200	< 200	< 40	< 5	< 50	< 50	< 20	< 20	< 10	< 10
Carbon Disulfide	ug/l	< 120	< 120	< 5	< 100	< 200	< 100	< 100	< 20	< 5	< 50	< 50	< 20	< 20	< 20	< 20
Carbon Tetrachloride	ug/l	< 120	< 120	**13**	< 100	< 200	< 100	< 100	< 20	< 5	< 50	< 50	< 20	< 20	< 10	< 10
Chlorobenzene	ug/l	< 120	< 120	< 5	< 100	< 200	< 100	< 100	< 20	< 5	< 50	< 50	< 20	< 20	< 10	< 10
Chloroethane	ug/l	**540**	**410**	**150**	< 200	< 400	**200**	**420**	**250**	**270**	**240**	< 50	**76**	**66**	< 10	**22**
Chloroform	ug/l	**250**	**210**	< 5	170	< 200	**130**	**160**	**24**	**37**	**120**	**71**	**38**	**32**	**27**	**12**
Chloromethane	ug/l	< 250	< 250	< 10	< 200	< 400	< 200	< 200	< 40	< 5	< 50	< 50	< 20	< 20	< 10	< 10
cis-1,3-Dichloropropene	ug/l	< 120	< 120	< 5	< 100	< 200	< 100	< 100	< 20	< 5	< 50	< 50	< 20	< 20	< 10	< 10
Dibromochloromethane	ug/l	< 120	< 120	< 5	< 100	< 200	< 100	< 100	< 20	< 5	< 50	< 50	< 20	< 20	< 10	< 10
Ethylbenzene	ug/l	< 120	< 120	< 5	< 100	< 200	< 100	< 100	< 20	< 5	< 50	< 50	< 20	< 20	< 10	< 10
Methylene Chloride	ug/l	< 120	< 120	**8.7**	< 100	< 200	< 100	< 100	< 20	< 25	< 250	< 250	< 100	< 100	< 50	< 50
Styrene	ug/l	< 120	< 120	< 5	< 100	< 200	< 100	< 100	< 20	< 5	< 50	< 50	< 20	< 20	< 10	< 10
Tetrachloroethene	ug/l	< 120	< 120	< 5	< 100	< 200	< 100	< 100	< 20	< 5	< 50	< 50	< 20	< 20	< 10	< 10
Toluene	ug/l	< 120	< 120	< 5	< 100	< 200	< 100	< 100	< 20	< 5	< 50	< 50	< 20	< 20	< 10	< 10
trans-1,3-Dichloropropene	ug/l	< 120	< 120	< 5	< 100	< 200	< 100	< 100	< 20	< 5	< 50	< 50	< 20	< 20	< 10	< 10
Trichloroethene	ug/l	**830**	**740**	< 5	**800**	**640**	**580**	**640**	**120**	**180**	**640**	**430**	**280**	**200**	**100**	**64**
Vinyl Chloride	ug/l	< 250	< 250	**13**	< 200	< 400	< 200	< 200	< 40	< 5	< 50	< 50	< 20	< 20	**17**	< 10
Xylenes, Total	ug/l	< 250	< 250	< 10	< 200	< 400	< 200	< 200	< 40	< 10	< 100	< 100	< 40	< 40	< 20	< 20
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/l	**8,620**	**6,980**	**625**	**5,360**	**5,910**	**5,210**	**5,540**	**1,234**	**1,457**	**4,390**	**4,881**	**3,094**	**3,778**	**1,594**	**1,033**

APPENDIX C
EW-01B (CDS)
Historical VOC Concentrations

Parameter	Unit	Dec-07	Jun-08	Dec-08	Jun-09	Dec-09	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17
1,1,1-Trichloroethane	ug/l	1900	1800	1200	1500	14	2100	690	1600	1200	890	1700	1200	390	27	1100	650	760	870	11.9
1,1,2,2-Tetrachloroethane	ug/l	< 20	< 20	< 10	< 10	< 1	< 25	< 25	< 100	<50	< 50	< 100	< 10	< 1	< 1	< 5	< 5	< 1	< 5	< 2
1,1,2-Trichloroethane	ug/l	< 20	< 20	< 10	< 10	< 1	< 25	< 25	< 100	<50	< 50	< 100	< 10	< 1	< 1	< 5	< 5	< 1	1.4	0.62 J
1,1-Dichloroethane	ug/l	270	220	120	240	4.5	280	70	240	170	160	200	150	130	18	160	99	190	160	128
1,1-Dichloroethene	ug/l	340	270	160	300	1.3	380	140	330	250	150	370	180	94	8.8	160	91	210	190	299
1,2-Dichloroethane	ug/l	< 20	< 20	< 10	< 10	< 1	< 25	< 25	< 100	<50	< 50	< 100	< 10	< 1	< 1	< 5	< 5	1.7	<1	2.2
1,2-Dichloroethene, Total	ug/l	250	200	120	220	1.3	260	64	200	160	130	180	< 10	130	13	160	100	160	150	14.2
1,2-Dichloropropane	ug/l	< 20	< 20	< 10	< 10	< 1	< 25	< 25	< 100	<50	< 50	< 100	< 50	< 1	< 1	< 5	< 5	< 1	< 5	< 2
2-Butanone	ug/l	< 200	< 200	< 50	< 50	< 5	< 120	< 120	< 500	<250	< 250	< 500	< 50	< 5	< 5	< 25	< 25	< 5	< 25	< 10
2-Hexanone	ug/l	< 200	< 200	< 50	< 50	< 5	< 120	< 120	< 500	<250	< 250	< 500	< 50	< 5	< 5	< 25	< 25	< 5	< 25	< 10
4-Methyl-2-pentanone	ug/l	< 200	< 200	< 50	< 50	< 5	< 120	< 120	< 500	<250	< 250	< 500	< 20	< 5	< 5	< 25	< 25	< 5	< 25	< 10
Acetone	ug/l	< 500	< 500	< 50	< 50	< 5	< 120	< 120	< 500	<250	< 250	< 500	< 10	< 2	8.1	12	< 10	< 2	< 10	< 50
Benzene	ug/l	< 20	< 20	< 10	< 10	1.3	< 25	< 25	< 100	<50	< 50	< 100	< 10	1.0	1.0	< 5	< 5	< 1	<1	< 2
Bromodichloromethane	ug/l	< 20	< 20	< 10	< 10	< 1	< 25	< 25	< 100	<50	< 50	< 100	< 10	< 1	< 1	< 5	< 5	< 1	< 5	< 2
Bromoform	ug/l	< 20	< 20	< 10	< 10	< 1	< 25	< 25	< 100	<50	< 50	< 100	< 20	< 1	< 1	< 5	< 5	< 1	< 5	< 2
Bromomethane	ug/l	< 20	< 20	< 10	< 10	< 1	< 25	< 25	< 100	<50	< 50	< 100	< 10	< 2	< 2	< 10	< 10	< 2	< 10	< 10
Carbon Disulfide	ug/l	< 40	< 40	< 50	< 50	< 1	440	< 25	< 100	<50	< 50	< 100	< 10	< 1	< 1	< 5	< 5	< 1	< 5	< 4
Carbon Tetrachloride	ug/l	< 20	< 20	< 10	< 10	< 1	< 25	< 25	< 100	<50	< 50	< 100	< 10	60	< 1	180	< 5	140	< 5	< 2
Chlorobenzene	ug/l	< 20	< 20	< 10	< 10	< 1	< 25	< 25	< 100	<50	< 50	< 100	23	1.7	< 1	< 5	< 5	1.4	< 5	< 2
Chloroethane	ug/l	51	90	56	130	43	47	< 25	< 100	<50	< 50	< 100	< 10	30	19	13	17	12	< 10	< 2
Chloroform	ug/l	38	< 20	17	24	< 1	28	< 25	< 100	<50	< 50	< 100	< 20	4	3.1	< 5	< 5	3.2	< 5	2.3
Chloromethane	ug/l	< 20	< 20	< 10	< 10	< 1	< 25	< 25	< 100	<50	< 50	< 100	140	< 2	< 2	< 10	< 10	< 2	< 10	< 2
cis-1,3-Dichloropropene	ug/l	< 20	< 20	< 10	< 10	< 1	< 25	< 25	< 100	<50	< 50	< 100	< 10	< 1	< 1	< 5	< 5	< 1	< 5	< 2
Dibromochloromethane	ug/l	< 20	< 20	< 10	< 10	< 1	< 25	< 25	< 100	<50	< 50	< 100	< 10	< 1	< 1	< 5	< 5	< 1	< 5	< 2
Ethylbenzene	ug/l	< 20	< 20	< 10	< 10	< 1	< 25	< 25	< 100	<50	< 50	< 100	< 10	< 1	< 1	< 5	< 5	< 1	< 5	< 2
Methylene Chloride	ug/l	< 100	< 100	< 20	< 20	< 1	< 25	< 25	< 100	<50	< 50	< 100	C	--	< 1	--	--	< 1	< 5	< 4
Styrene	ug/l	< 20	< 20	< 10	< 10	< 1	< 25	< 25	< 100	<50	< 50	< 100	< 10	< 1	< 1	< 5	< 5	< 1	< 5	< 2
Tetrachloroethene	ug/l	< 20	< 20	< 10	< 10	< 1	< 25	< 25	< 100	<50	< 50	< 100	< 10	< 1	< 1	< 5	< 5	< 1	< 5	< 2
Toluene	ug/l	< 20	< 20	< 10	< 10	< 1	< 25	< 25	< 100	<50	< 50	< 100	< 10	< 1	< 1	< 5	< 5	< 1	< 5	< 2
trans-1,3-Dichloropropene	ug/l	< 20	< 20	< 10	< 10	< 1	< 25	< 25	< 100	<50	< 50	< 100	< 10	< 1	< 1	< 5	< 5	< 1	< 5	< 2
Trichloroethene	ug/l	330	160	140	140	2.8	270	39	220	140	86	180	120	41	5.7	100	47	100	88	37.5
Vinyl Chloride	ug/l	< 20	23	13	29	4.1	< 25	< 25	< 100	<50	< 50	< 100	< 20	23	4.5	12	< 10	15	19	< 2
Xylenes, Total	ug/l	< 40	< 40	< 20	< 20	< 3	< 75	< 75	< 300	<150	< 150	< 300	< 30	< 3	< 3	< 15	< 15	< 3	< 15	< 2
1,4-Dioxane	ug/l	--	--	--	--	< 200	< 5000	< 5000	< 20000	<10000	< 10000	< 20000	160	140	82	130	120	170	120	< 300
Total VOCs	ug/l	3,179	2,763	1,826	2,583	72	3,805	1,003	2,590	1,920	1,416	2,630	1,973	1,045	190	2,027	1,124	1,763	1,598	496

APPENDIX C

EW-1C (CDS)

Historical VOC Concentrations

Parameter	Unit	Sep-17	Mar-18	Sep-18	Mar-19	Sep-19	Mar-20
1,1,1-Trichloroethane	ug/l	**1000**	**1230**	**856**	**1330**	**280**	**43**
1,1,2,2-Tetrachloroethane	ug/l	< 120	< 12.5	< 5.0	< 12.5	< 4.0	<0.36
1,1,2-Trichloroethane	ug/l	< 120	< 12.5	< 5.0	< 12.5	< 4.0	<0.66
1,1-Dichloroethane	ug/l	**888**	**423**	**291**	**472**	**128**	**170**
1,1-Dichloroethene	ug/l	**236**	**309**	**259**	**271**	**116**	**320**
1,2-Dichloroethane	ug/l	**6.0J**	**4.8 J**	< 5.0	< 12.5	**1.5 J**	**3.3 J**
1,2-Dichloroethene, Total	ug/l	**1100**	**491**	**527**	**702**	**176**	**24**
1,2-Dichloropropane	ug/l	<20	< 12.5	< 5.0	< 12.5	< 4.0	<1.1
1,4-Dioxane	ug/l	< 3000	< 1880	< 750	< 1880	< 600	**150**
2-Butanone	ug/l	**214**	< 62.5	< 25	< 62.5	< 20.0	<2.4
2-Hexanone	ug/l	<100	< 62.5	< 25	< 62.5	< 20.0	<0.65
4-Methyl-2-pentanone	ug/l	<100	< 62.5	< 25	< 62.5	< 20.0	<0.78
Acetone	ug/l	**286 J**	< 312	< 125	< 312	< 100	<3.1
Benzene	ug/l	<20	**4.0 J**	< 5.0	< 12.5	< 4.0	<0.48
Bromodichloromethane	ug/l	<20	< 12.5	< 5.0	< 12.5	< 4.0	<0.62
Bromoform	ug/l	<20	< 12.5	< 5.0	< 12.5	< 4.0	<0.40
Bromomethane	ug/l	<20	< 62.5	**1.5 J**	< 62.5	< 8.0	<1.8
Carbon Disulfide	ug/l	<40	< 25.0	< 10.0	< 25.0	< 8.0	<0.75
Carbon Tetrachloride	ug/l	<20	< 12.5	< 5.0	< 12.5	< 4.0	<1.1
Chlorobenzene	ug/l	<20	< 12.5	< 5.0	< 12.5	< 4.0	<0.62
Chloroethane	ug/l	**391**	**68.6**	**59.5**	**168**	**27.4**	<2.2
Chloroform	ug/l	**16.8J**	**34.9**	**5.5**	**41.4 J**	< 20.0	**5.2**
Chloromethane	ug/l	<20	< 12.5	< 5.0	< 12.5	< 4.0	<0.79
cis-1,3-Dichloropropene	ug/l	<20	< 12.5	< 5.0	< 12.5	< 4.0	<0.79
Dibromochloromethane	ug/l	<20	< 12.5	< 5.0	< 12.5	< 4.0	<0.81
Dichlorodifluoromethane	ug/l	<20	< 12.5	< 5.0	< 12.5	< 4.0	<1.1
Ethylbenzene	ug/l	**19.7J**	**11.9 J**	**4.3 J**	**9.5 J**	**4.8**	<0.61
Methylene Chloride	ug/l	**20.6J**	**22.5 J**	< 10.0	< 25.0	< 20.0	<0.83
Styrene	ug/l	<20	< 12.5	< 5.0	< 12.5	< 4.0	<0.47
Tetrachloroethene	ug/l	<20	< 12.5	< 5.0	< 12.5	< 4.0	<0.98
Toluene	ug/l	**16.4J**	**12.4 J**	< 5.0	**9.5 J**	**1.6 J**	<0.44
trans-1,3-Dichloropropene	ug/l	<20	< 12.5	< 5.0	< 12.5	< 4.0	<0.70
Trichloroethene	ug/l	**264**	< 12.5	**261**	**460**	**106**	**71**
Vinyl Chloride	ug/l	**93.5**	**42**	**32.2**	**51.7**	**14.3**	**2.1 J**
Xylenes, Total	ug/l	**43.7**	**34.3**	**11**	< 12.5	< 4.0	<1.5
Total VOCs	ug/L	**4,629**	**2,688**	**2,308**	**3,515**	**856**	**789**

APPENDIX C
EW-02A (CDS)
Historical VOC Concentrations

Parameter	Unit	Jun-99	Dec-99	Jun-00	Jun-01	Dec-01	Jul-02	Dec-02	Jun-03	Dec-03	Jun-04	Dec-04	Jun-05	Dec-05	Jun-06	Dec-06	Jun-07
1,1,1-Trichloroethane	ug/l	**1200**	**1200**	**1800**	**1200**	**830**	**1700**	**1500**	**1800**	**1100**	**510**	**260**	**470**	**380**	**570**	**270**	**880**
1,1,2,2-Tetrachloroethane	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 10	< 25	< 10	< 5	< 5	< 5	< 2	< 10
1,1,2-Trichloroethane	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 10	< 25	< 10	< 5	< 5	< 5	< 2	< 10
1,1-Dichloroethane	ug/l	**480**	**350**	**430**	**330**	**300**	**260**	**210**	**250**	**260**	**200**	**230**	**200**	**160**	**150**	**160**	**220**
1,1-Dichloroethene	ug/l	**800**	**830**	**900**	**670**	**690**	**650**	**550**	**760**	**640**	**380**	**560**	**410**	**440**	**390**	**360**	**490**
1,2-Dichloroethane	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 10	< 25	< 10	6.2	< 5	< 5	5.2	< 10
1,2-Dichloroethene, Total	ug/l	**200**	**52**	**82**	**54**	< 50	**56**	< 50	< 100	**58**	< 50	**38**	**28**	**24**	**28**	**24**	**40**
1,2-Dichloropropane	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 10	< 25	< 10	< 5	< 5	< 5	< 2	< 10
2-Butanone	ug/l	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 100	< 250	< 100	< 50	< 50	< 50	< 20	< 100
2-Hexanone	ug/l	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 100	< 250	< 100	< 50	< 50	< 50	< 20	< 100
4-Methyl-2-pentanone	ug/l	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 100	< 250	< 100	< 50	< 50	< 50	< 20	< 100
Acetone	ug/l	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 250	< 620	< 250	< 130	< 130	< 130	< 50	< 250
Benzene	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 10	< 25	< 10	< 5	< 5	< 5	< 2	< 10
Bromodichloromethane	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 10	< 25	< 10	< 5	< 5	< 5	< 2	< 10
Bromoform	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 10	< 25	< 10	< 5	< 5	< 5	< 2	< 10
Bromomethane	ug/l	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 50	< 10	< 25	< 10	< 5	< 5	< 5	< 2	< 10
Carbon Disulfide	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 10	< 25	< 10	< 5	< 5	< 10	< 4	< 20
Carbon Tetrachloride	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	**320**	< 10	< 25	< 10	< 5	< 5	< 5	< 2	< 10
Chlorobenzene	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 10	< 25	< 10	< 5	< 5	< 5	< 2	< 10
Chloroethane	ug/l	< 100	< 100	< 100	< 100	< 100	< 100	< 100	**69**	**53**	< 25	< 10	< 5	< 5	< 5	< 2	< 10
Chloroform	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	**16**	< 25	**10**	**8.2**	**6.1**	**6.4**	**5.0**	< 10
Chloromethane	ug/l	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 50	< 10	< 25	< 10	< 5	< 5	< 5	< 2	< 10
cis-1,3-Dichloropropene	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 10	< 25	< 10	< 5	< 5	< 5	< 2	< 10
Dibromochloromethane	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 10	< 25	< 10	< 5	< 5	< 5	< 2	< 10
Ethylbenzene	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 10	< 25	< 10	< 5	< 5	< 5	< 2	< 10
Methylene Chloride	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 120	< 50	< 25	< 25	< 25	< 10	< 50
Styrene	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 10	< 25	< 10	< 5	< 5	< 5	< 2	< 10
Tetrachloroethene	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 10	< 25	< 10	< 5	< 5	< 5	< 2	< 10
Toluene	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 10	< 25	< 10	< 5	< 5	< 5	< 2	< 10
trans-1,3-Dichloropropene	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 10	< 25	< 10	< 5	< 5	< 5	< 2	< 10
Trichloroethene	ug/l	**85**	**230**	**300**	**220**	**160**	**250**	**220**	**250**	**190**	**120**	**100**	**120**	**80**	**120**	**96**	**180**
Vinyl Chloride	ug/l	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 50	< 10	< 25	< 10	< 5	< 5	< 5	< 2	< 10
Xylenes, Total	ug/l	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 20	< 50	< 20	< 10	< 10	< 10	< 4	< 20
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Total VOCs	ug/l	**2,765**	**2,662**	**3,512**	**2,474**	**1,980**	**2,916**	**2,480**	**3,449**	**2,317**	**1,210**	**1,198**	**1,242**	**1,090**	**1,264**	**920**	**1,810**

APPENDIX C
EW-02A (CDS)
Historical VOC Concentrations

Parameter	Unit	Dec-07	Jun-08	Dec-08	Jun-09	Dec-09	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17	Sep-17	Mar-18	Sep-18
1,1,1-Trichloroethane	ug/l	800	590	380	1000	86	23	140	170	110	100	81	46	55	34	43	110	99	50	13.5	129	265	375
1,1,2,2-Tetrachloroethane	ug/l	< 10	< 5	< 1	< 2	< 1	< 10	< 12	< 10	<13	< 13	< 13	< 2.5	< 2.5	< 1	< 2	< 2	< 1	< 1	< 2.5	<2.5	<2.5	< 2.0
1,1,2-Trichloroethane	ug/l	< 10	< 5	< 1	< 2	< 1	< 10	< 12	< 10	<13	< 13	< 13	< 2.5	< 2.5	< 1	< 2	< 2	< 1	< 1	< 2.5	<2.5	<2.5	< 2.0
1,1-Dichloroethane	ug/l	220	180	250	250	150	120	160	140	140	140	110	130	140	160	180	150	150	110	169	116	118	85.2
1,1-Dichloroethene	ug/l	460	410	580	670	280	73	330	260	270	240	220	270	310	320	330	310	300	230	432	268	224	182
1,2-Dichloroethane	ug/l	< 10	6.2	4.6	4.7	3.1	< 10	< 12	< 10	<13	< 13	< 13	3.3	3.7	3.6	3.9	3.3	3.2	2.6	4.0	2.3J	3	< 2.0
1,2-Dichloroethene, Total	ug/l	34	29	27	38	24	14	20	22	20	17	17	< 2.5	19	< 1	20	18	18	14	15.8	15.9	22.8	26.8
1,2-Dichloropropane	ug/l	< 10	< 5	< 1	< 2	< 1	< 10	< 12	< 10	<13	< 13	< 13	< 13	< 2.5	< 1	< 2	< 2	< 1	< 1	< 2.5	<2.5	< 2.5	< 2.0
2-Butanone	ug/l	< 100	< 50	< 5	< 10	< 5	< 50	< 62	< 50	<63	< 63	< 63	< 13	< 13	< 5	< 10	< 10	< 5	< 5	< 12.5	<12.5	<12.5	< 10.0
2-Hexanone	ug/l	< 100	< 50	< 5	< 10	< 5	< 50	< 62	< 50	<63	< 63	< 63	< 13	< 13	< 5	< 10	< 10	< 5	< 5	< 12.5	<12.5	<12.5	< 10.0
4-Methyl-2-pentanone	ug/l	< 100	< 50	< 5	< 10	< 5	< 50	< 62	< 50	<63	< 63	< 63	< 5	< 13	< 5	< 10	< 10	< 5	< 5	< 12.5	< 12.5	< 12.5	< 10.0
Acetone	ug/l	< 250	< 120	< 5	< 10	< 5	< 50	< 62	< 50	<63	< 63	< 63	< 2.5	< 5	4.1	< 4	< 4	< 2	< 2	< 62.5	< 62.5	< 62.5	< 50.0
Benzene	ug/l	< 10	< 5	< 1	< 2	< 1	< 10	< 12	< 10	<13	< 13	< 13	< 2.5	< 2.5	< 1	< 2	< 2	< 1	< 1	< 2.5	< 2.5	< 2.5	< 2.0
Bromodichloromethane	ug/l	< 10	< 5	< 1	< 2	< 1	< 10	< 12	< 10	<13	< 13	< 13	< 2.5	< 2.5	< 1	< 2	< 2	< 1	< 1	< 2.5	< 2.5	< 2.5	< 2.0
Bromoform	ug/l	< 10	< 5	< 1	< 2	< 1	< 10	< 12	< 10	<13	< 13	< 13	< 5	< 2.5	< 1	< 2	< 2	< 1	< 1	< 2.5	< 2.5	< 2.5	< 2.0
Bromomethane	ug/l	< 10	< 5	< 1	< 2	< 1	< 10	< 12	< 10	<13	< 13	< 13	< 2.5	< 5	< 2	< 4	< 4	< 2	< 2	< 12.5	< 12.5	< 12.5	< 10.0
Carbon Disulfide	ug/l	< 20	< 10	< 5	< 10	< 1	< 10	< 12	< 10	<13	< 13	< 13	< 2.5	< 2.5	< 1	< 2	< 2	< 1	< 1	< 5	< 5	< 5	< 4.0
Carbon Tetrachloride	ug/l	< 10	< 5	< 1	< 2	< 1	< 10	< 12	< 10	<13	< 13	< 13	< 2.5	7.9	< 1	7.1	< 2	17	< 1	< 2.5	< 2.5	< 2.5	< 2.0
Chlorobenzene	ug/l	< 10	< 5	< 1	< 2	< 1	< 10	< 12	< 10	<13	< 13	< 13	< 5	< 2.5	< 1	< 2	< 2	< 1	< 1	< 2.5	1.4J	1.3 J	1.6 J
Chloroethane	ug/l	< 10	< 5	2.2	4.9	1.9	< 10	< 12	< 10	<13	< 13	< 13	< 2.5	< 5	11	< 4	< 4	< 2	< 2	< 2.5	< 2.5	< 2.5	< 2.0
Chloroform	ug/l	< 10	5.2	4.0	5.4	4.8	< 10	< 12	< 10	<13	< 13	< 13	< 5	<2.5	0	< 2	< 2	1.0	1.1	1.0 J	1.2J	1.2 J	< 2.0
Chloromethane	ug/l	< 10	< 5	< 1	< 2	< 1	< 10	< 12	< 10	<13	< 13	< 13	17	< 5	18	< 4	< 4	< 2	< 2	< 2.5	< 2.5	< 2.5	< 2.0
cis-1,3-Dichloropropene	ug/l	< 10	< 5	< 1	< 2	< 1	< 10	< 12	< 10	<13	< 13	< 13	< 2.5	< 2.5	< 1	< 2	< 2	< 1	< 1	< 2.5	< 2.5	< 2.5	< 2.0
Dibromochloromethane	ug/l	< 10	< 5	< 1	< 2	< 1	< 10	< 12	< 10	<13	< 13	< 13	< 2.5	< 2.5	< 1	< 2	< 2	< 1	< 1	< 2.5	< 2.5	< 2.5	< 2.0
Ethylbenzene	ug/l	< 10	< 5	< 1	< 2	< 1	< 10	< 12	< 10	<13	< 13	< 13	< 2.5	< 2.5	< 1	< 2	< 2	< 1	< 1	< 2.5	< 2.5	< 2.5	< 2.0
Methylene Chloride	ug/l	< 50	< 25	< 2	< 4	< 1	< 10	< 12	< 10	28	< 13	< 13	--	--	< 1	--	--	< 1	< 1	< 5.0	< 5.0	< 5	3.8 J
Styrene	ug/l	< 10	< 5	< 1	< 2	< 1	< 10	< 12	< 10	<13	< 13	< 13	< 2.5	< 2.5	< 1	< 2	< 2	< 1	< 1	< 2.5	< 2.5	< 2.5	< 2.0
Tetrachloroethene	ug/l	< 10	< 5	< 1	< 2	< 1	< 10	< 12	< 10	<13	< 13	< 13	< 2.5	< 2.5	< 1	< 2	< 2	< 1	<1	< 2.5	< 2.5	< 2.5	< 2.0
Toluene	ug/l	< 10	< 5	< 1	< 2	< 1	< 10	< 12	< 10	<13	< 13	< 13	< 2.5	< 2.5	< 1	< 2	< 2	< 1	< 1	< 2.5	< 2.5	< 2.5	< 2.0
trans-1,3-Dichloropropene	ug/l	< 10	< 5	< 1	< 2	< 1	< 10	< 12	< 10	<13	< 13	< 13	< 2.5	< 2.5	< 1	< 2	< 2	< 1	< 1	< 2.5	< 2.5	< 2.5	< 2.0
Trichloroethene	ug/l	170	120	99	150	50	32	65	67	63	57	56	49	62	60	62	49	59	41	50.8	56.4	64.5	77.6
Vinyl Chloride	ug/l	< 10	< 5	2.3	3.1	2.5	< 10	< 12	< 10	<13	< 13	< 13	< 5	<5	3.6	4.8	< 4	2	2.5	< 2.5	2.8	2.2 J	2.7
Xylenes, Total	ug/l	< 20	< 10	< 2	< 4	< 3	< 30	< 38	< 30	<38	< 38	< 38	< 7.5	< 7.5	< 3	< 6	< 6	< 3	< 3	< 2.5	< 2.5	< 2.5	< 2.0
1,4-Dioxane	ug/l	--	--	--	--	210	< 2000	< 2500	< 2000	<2500	< 2500	< 2500	190	210	250	260	210	200	190	< 375	< 375	< 375	< 300
Total VOCs	ug/l	1,684	1,340	1,349	2,126	812	262	715	659	631	554	484	705	808	864	911	850	849	641	686	593	702	755

APPENDIX C
EW-02A (CDS)
Historical VOC Concentrations

Parameter	Unit	Mar-19	Sep-19	Mar-20
1,1,1-Trichloroethane	ug/l	**412**	**276**	**70**
1,1,2,2-Tetrachloroethane	ug/l	< 2.5	< 2.5	<0.36
1,1,2-Trichloroethane	ug/l	< 2.5	< 2.5	<0.66
1,1-Dichloroethane	ug/l	**102**	**123**	**160**
1,1-Dichloroethene	ug/l	**197**	**216**	**310**
1,2-Dichloroethane	ug/l	**2.2 J**	**2.6**	**3.2 J**
1,2-Dichloroethene, Total	ug/l	**32.9**	**24.8**	**20**
1,2-Dichloropropane	ug/l	< 2.5	< 2.5	<1.1
2-Butanone	ug/l	<12.5	<12.5	<2.4
2-Hexanone	ug/l	<12.5	<12.5	<0.65
4-Methyl-2-pentanone	ug/l	< 12.5	< 12.5	<0.78
Acetone	ug/l	< 62.5	< 62.5	<3.1
Benzene	ug/l	**2.3 J**	<2.5	<0.48
Bromodichloromethane	ug/l	< 2.5	< 2.5	<0.62
Bromoform	ug/l	< 2.5	< 2.5	<0.40
Bromomethane	ug/l	< 12.5	< 12.5	<1.8
Carbon Disulfide	ug/l	< 5	< 5	<0.75
Carbon Tetrachloride	ug/l	< 2.5	< 2.5	<1.1
Chlorobenzene	ug/l	< 2.5	**1.9 J**	<0.62
Chloroethane	ug/l	**2.3 J**	**2.2 J**	<2.2
Chloroform	ug/l	< 2.0	< 2.0	**4.4 J**
Chloromethane	ug/l	< 2.5	< 2.5	<0.79
cis-1,3-Dichloropropene	ug/l	< 2.5	< 2.5	<0.79
Dibromochloromethane	ug/l	< 2.5	< 2.5	<1.1
Ethylbenzene	ug/l	< 2.5	< 2.5	<0.61
Methylene Chloride	ug/l	< 5	< 5	<0.83
Styrene	ug/l	< 2.5	< 2.5	<0.47
Tetrachloroethene	ug/l	< 2.5	**0.72 J**	<0.98
Toluene	ug/l	< 2.5	< 2.5	<0.44
trans-1,3-Dichloropropene	ug/l	< 2.5	< 2.5	<0.70
Trichloroethene	ug/l	**73.4**	**69**	**71**
Vinyl Chloride	ug/l	**1.6 J**	**1.7 J**	**2.2 J**
Xylenes, Total	ug/l	< 2.5	< 2.5	<1.5
1,4-Dioxane	ug/l	< 375	**247 J**	**150**

Total VOCs	ug/l	**826**	**965**	**791**

APPENDIX C

EW-03A (CDS)

Historical VOC Concentrations

Parameter	Unit	Jun-99	Dec-99	Jun-00	Dec-00	Jun-01	Dec-01	Jul-02	Dec-02	Jun-03	Dec-03	Jun-04	Dec-04	Jun-05	Dec-05	Jun-06	Dec-06	Jun-07
1,1,1-Trichloroethane	ug/l	**72**	**46**	**45**	**46**	**37**	**15**	**34**	**24**	**23**	**30**	**22**	**14**	**16**	**15**	**19**	**16**	**20**
1,1,2,2-Tetrachloroethane	ug/l	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 10	< 2	< 2	< 2	< 1	< 2	< 2
1,1,2-Trichloroethane	ug/l	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 10	< 2	< 2	< 2	< 1	< 2	< 2
1,1-Dichloroethane	ug/l	**400**	**280**	**310**	**250**	**210**	**210**	**210**	**170**	**190**	**220**	**200**	**130**	**130**	**120**	**150**	**140**	**190**
1,1-Dichloroethene	ug/l	**570**	**390**	**400**	**340**	**340**	**170**	**300**	**250**	**310**	**370**	**260**	**170**	**150**	**170**	**190**	**210**	**110**
1,2-Dichloroethane	ug/l	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**2.4**	< 10	< 2	< 2	< 2	**1.7**	< 2	**2.2**
1,2-Dichloroethene, Total	ug/l	**51**	**34**	**39**	**33**	**28**	**26**	**29**	**25**	**27**	**29**	**26**	**18**	**17**	**14**	**22**	**18**	**26**
1,2-Dichloropropane	ug/l	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 10	< 2	< 2	< 2	< 1	< 2	< 2
2-Butanone	ug/l	< 120	< 120	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 20	< 100	< 20	< 20	< 20	< 10	< 20	< 20
2-Hexanone	ug/l	< 120	< 120	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 20	< 100	< 20	< 20	< 20	< 10	< 20	< 20
4-Methyl-2-pentanone	ug/l	< 120	< 120	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 20	< 100	< 20	< 20	< 20	< 10	< 20	< 20
Acetone	ug/l	< 250	< 250	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 50	< 250	< 50	< 50	< 50	< 25	< 50	< 50
Benzene	ug/l	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 10	< 2	< 2	< 2	< 1	< 2	< 2
Bromodichloromethane	ug/l	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 10	< 2	< 2	< 2	< 1	< 2	< 2
Bromoform	ug/l	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 10	< 2	< 2	< 2	< 1	< 2	< 2
Bromomethane	ug/l	< 50	< 50	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 2	< 10	< 2	< 2	< 2	< 1	< 2	< 2
Carbon Disulfide	ug/l	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 10	< 2	< 2	< 2	< 2	< 4	< 4
Carbon Tetrachloride	ug/l	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 10	< 2	< 2	< 2	< 1	< 2	< 2
Chlorobenzene	ug/l	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 10	< 2	< 2	< 2	< 1	< 2	< 2
Chloroethane	ug/l	< 50	< 50	< 20	< 20	< 20	< 20	< 20	< 20	< 10	**11**	< 10	< 2	< 2	< 2	< 1	< 2	< 2
Chloroform	ug/l	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**5.0**	< 10	**3.4**	**3.5**	**3.2**	**4.2**	**3.8**	**4.5**
Chloromethane	ug/l	< 50	< 50	< 20	< 20	< 20	< 20	< 20	< 20	< 10	< 2	< 10	< 2	< 2	< 2	< 1	< 2	< 2
cis-1,3-Dichloropropene	ug/l	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 10	< 2	< 2	< 2	< 1	< 2	< 2
Dibromochloromethane	ug/l	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 10	< 2	< 2	< 2	< 1	< 2	< 2
Ethylbenzene	ug/l	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 10	< 2	< 2	< 2	< 1	< 2	< 2
Methylene Chloride	ug/l	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 5	< 10	< 10
Styrene	ug/l	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 10	< 2	< 2	< 2	< 1	< 2	< 2
Tetrachloroethene	ug/l	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 10	< 2	< 2	< 2	< 1	< 2	< 2
Toluene	ug/l	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 10	< 2	< 2	< 2	< 1	< 2	< 2
trans-1,3-Dichloropropene	ug/l	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 10	< 2	< 2	< 2	< 1	< 2	< 2
Trichloroethene	ug/l	**76**	**56**	**63**	**67**	**53**	**37**	**52**	**44**	**41**	**52**	**46**	**31**	**37**	**35**	**43**	**39**	**55**
Vinyl Chloride	ug/l	< 50	< 50	< 20	< 20	< 20	< 20	< 20	< 20	< 10	**3**	< 10	< 2	< 2	< 2	1.5	< 2	< 2
Xylenes, Total	ug/l	< 50	< 50	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 4	< 20	< 4	< 4	< 4	< 2	< 4	< 4
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/l	**1,169**	**806**	**857**	**736**	**668**	**458**	**625**	**513**	**591**	**722**	**554**	**366**	**354**	**357**	**431**	**427**	**408**

March 2020

APPENDIX C

EW-03A (CDS)

Historical VOC Concentrations

Parameter	Unit	Dec-07	Jun-08	Dec-08	Jun-09	Dec-09	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17	Sep-17
1,1,1-Trichloroethane	ug/l	**21**	**17**	**21**	**31**	**21**	**19**	**16**	< 10	**19**	**17**	**26**	**20**	**22**	**20**	**16**	**9.9**	**19**	**15**	**9.4**	**10**
1,1,2,2-Tetrachloroethane	ug/l	< 2	< 2	< 1	< 1	< 1	< 10	< 10	< 10	<10	< 13	< 10	< 1	< 2.5	< 1	< 1	< 1	< 5	< 1	< 1	< 2
1,1,2-Trichloroethane	ug/l	< 2	< 2	**1.3**	**1.6**	**1.1**	< 10	< 10	< 10	<10	< 13	< 10	< 1	< 2.5	**1.2**	**1.4**	< 1	< 5	**1.4**	**0.85 J**	**0.58J**
1,1-Dichloroethane	ug/l	**130**	**110**	**190**	**250**	**160**	**150**	**110**	**98**	**150**	**130**	**140**	**140**	**180**	**190**	**130**	**86**	**150**	**130**	**113**	**104**
1,1-Dichloroethene	ug/l	**170**	**170**	**330**	**540**	**280**	**27**	**170**	**160**	**200**	**190**	**240**	**15**	**360**	**330**	**220**	**140**	**290**	**300**	**193**	**263**
1,2-Dichloroethane	ug/l	**2**	< 2	< 1	**1.9**	**1.6**	< 10	< 10	< 10	<10	< 13	< 10	**1.4**	<2.5	**2.3**	**1.2**	< 1	< 5	**1.3**	**1.3**	**1.0J**
1,2-Dichloroethene, Total	ug/l	**17**	**15**	**23**	**31**	**24**	**13**	**13**	**14**	**18**	**15**	**18**	< 1	**24**	**24**	**17**	**12**	**18**	**17**	**15**	**14.9**
1,2-Dichloropropane	ug/l	< 2	< 2	< 1	< 1	< 1	< 10	< 10	< 10	<10	< 13	< 10	< 5	< 2.5	< 1	< 1	< 1	< 5	< 1	< 1	<2
2-Butanone	ug/l	< 20	< 20	< 5	< 5	< 5	< 50	< 50	< 50	<50	< 63	< 50	< 5	< 13	< 5	< 5	< 5	< 25	< 5	< 5	<10
2-Hexanone	ug/l	< 20	< 20	< 5	< 5	< 5	< 50	< 50	< 50	<50	< 63	< 50	z	< 13	< 5	< 5	< 5	< 25	< 5	< 5	<10
4-Methyl-2-pentanone	ug/l	< 20	< 20	< 5	< 5	< 5	< 50	< 50	< 50	<50	< 63	< 50	< 2	< 13	< 5	< 5	< 5	< 25	< 5	< 5	<10
Acetone	ug/l	< 50	< 50	< 5	< 5	< 5	< 50	< 50	< 50	<50	< 63	< 50	< 1	< 5	< 2	< 2	< 2	< 10	< 2	< 25	<50
Benzene	ug/l	< 2	< 2	< 1	< 1	< 1	< 10	< 10	< 10	<10	< 13	< 10	< 1	< 2.5	< 1	< 1	< 1	< 5	< 1	< 1	<2
Bromodichloromethane	ug/l	< 2	< 2	< 1	< 1	< 1	< 10	< 10	< 10	<10	< 13	< 10	< 1	< 2.5	< 1	< 1	< 1	< 5	< 1	< 1	<2
Bromoform	ug/l	< 2	< 2	< 1	< 1	< 1	< 10	< 10	< 10	<10	< 13	< 10	< 2	< 2.5	< 1	< 1	< 1	< 5	< 1	< 1	<2
Bromomethane	ug/l	< 2	< 2	< 1	< 1	< 1	< 10	< 10	< 10	<10	< 13	< 10	< 1	< 5	< 2	< 2	< 2	< 10	< 2	< 5	<10
Carbon Disulfide	ug/l	< 4	< 4	< 5	< 5	< 1	< 10	< 10	< 10	<10	< 13	< 10	< 1	< 2.5	< 1	< 1	< 1	< 5	< 1	< 2	<4
Carbon Tetrachloride	ug/l	< 2	< 2	< 1	< 1	< 1	< 10	< 10	< 10	<10	< 13	< 10	< 1	3.2	< 1	**2.5**	< 1	< 5	< 1	< 1	<2
Chlorobenzene	ug/l	< 2	< 2	< 1	< 1	< 1	< 10	< 10	< 10	<10	< 13	< 10	< 2	< 2.5	< 1	< 1	< 1	< 5	< 1	< 1	<2
Chloroethane	ug/l	< 2	< 2	**1.3**	**1.9**	**1.7**	< 10	< 10	< 10	<10	< 13	< 10	**3.5**	< 5	< 2	< 2	< 2	< 10	< 2	< 1	**1.1J**
Chloroform	ug/l	**3.9**	**3.5**	**4.3**	**6.2**	**5.0**	< 10	< 10	< 10	<10	< 13	< 10	< 2	**4.8**	**6.6**	**3.8**	**4.7**	< 5	**5.2**	**4.4**	**4.7**
Chloromethane	ug/l	< 2	< 2	< 1	< 1	< 1	< 10	< 10	< 10	<10	< 13	< 10	**11**	< 5	< 2	< 2	< 2	< 10	< 2	**0.11 J**	<2
cis-1,3-Dichloropropene	ug/l	< 2	< 2	< 1	< 1	< 1	< 10	< 10	< 10	<10	< 13	< 10	< 1	< 2.5	< 1	< 1	< 1	< 5	< 1	< 1	<2
Dibromochloromethane	ug/l	< 2	< 2	< 1	< 1	< 1	< 10	< 10	< 10	<10	< 13	< 10	< 1	< 2.5	< 1	< 1	< 1	< 5	< 1	< 1	<2
Ethylbenzene	ug/l	< 2	< 2	< 1	< 1	< 1	< 10	< 10	< 10	<10	< 13	< 10	< 1	< 2.5	< 1	< 1	< 1	< 5	< 1	< 1	<2
Methylene Chloride	ug/l	< 10	< 10	< 2	< 2	< 1	< 10	< 10	< 10	**24**	< 13	< 10	--	--	< 1	**--**	**--**	< 5	< 1	< 2	<4
Styrene	ug/l	< 2	< 2	< 1	< 1	< 1	< 10	< 10	< 10	<10	< 13	< 10	< 1	< 2.5	< 1	< 1	< 1	< 5	< 1	< 1	<2
Tetrachloroethene	ug/l	< 2	< 2	< 1	< 1	< 1	< 10	< 10	< 10	<10	< 13	< 10	< 1	< 2.5	< 1	< 1	< 1	< 5	< 1	**0. 55 J**	**1.0J**
Toluene	ug/l	< 2	< 2	< 1	< 1	< 1	< 10	< 10	< 10	<10	< 13	< 10	< 1	< 2.5	< 1	< 1	< 1	< 5	< 1	< 1	<2
trans-1,3-Dichloropropene	ug/l	< 2	< 2	< 1	< 1	< 1	< 10	< 10	< 10	<10	< 13	< 10	< 1	< 2.5	< 1	< 1	< 1	< 5	< 1	< 1	<2
Trichloroethene	ug/l	**49**	**39**	**44**	**66**	**40**	**34**	**34**	**37**	**38**	**35**	**45**	**29**	**54**	**56**	**37**	**28**	**41**	**51**	**40.7**	**42.4**
Vinyl Chloride	ug/l	< 2	< 2	**1.4**	**3.8**	**3.5**	< 10	< 10	< 10	<10	< 13	< 10	< 2	<5	**2.7**	**2.2**	< 2	< 10	< 2	< 1	>2
Xylenes, Total	ug/l	< 4	< 4	< 2	< 2	< 3	< 30	< 30	< 30	<30	< 38	< 30	< 3	< 7.5	< 3	< 3	< 3	< 15	< 3	< 1	<2
1,4-Dioxane	ug/l	--	--	--	--	< 200	< 2000	< 2000	< 2000	<2000	< 2500	< 2000	**57**	**98**	**120**	**53**	**45**	**70**	**68**	**145 J**	<300
Total VOCs	ug/l	**393**	**355**	**616**	**933**	**538**	**243**	**343**	**309**	**449**	**387**	**469**	**277**	**746**	**753**	**484**	**326**	**588**	**589**	**523**	**443**

APPENDIX C

EW-3B (CDS)

Historical VOC Concentrations

Parameter	Unit	May-18	Sep-18	Mar-19	Sep-19	Mar-20
1,1,1-Trichloroethane	ug/l	**14.0**	**8.3**	< 2.0	**6.8**	**25**
1,1,2,2-Tetrachloroethane	ug/l	< 4.0	< 2.5	< 2.0	< 2.0	<0.36
1,1,2-Trichloroethane	ug/l	< 4.0	< 2.5	< 2.0	**0.77 J**	<0.66
1,1-Dichloroethane	ug/l	**214**	**163**	**196**	**102**	**170**
1,1-Dichloroethene	ug/l	**365**	**289**	**358**	**209**	**330**
1,2-Dichloroethane	ug/l	**3.8 J**	< 2.5	**3.4**	**1.5 J**	**3.5 J**
1,2-Dichloroethene, Total	ug/l	**23.8**	**13.5**	**19.4**	**11.8**	**19**
1,2-Dichloropropane	ug/l	< 4.0	< 2.5	< 2.0	< 2.0	<1.1
1,4-Dioxane	ug/l	< 600	< 375	< 300	< 300	**170**
2-Butanone	ug/l	< 20.0	< 12.5	< 10.0	< 10.0	<2.4
2-Hexanone	ug/l	< 20.0	< 12.5	< 10.0	< 10.0	<0.65
4-Methyl-2-pentanone	ug/l	< 20.0	< 12.5	< 10.0	< 10.0	<0.78
Acetone	ug/l	< 100	< 62.5	< 50.0	< 50.0	<3.1
Benzene	ug/l	**1.8 J**	< 2.5	< 2.0	< 2.0	<0.48
Bromodichloromethane	ug/l	< 4.0	< 2.5	< 2.0	< 2.0	<0.62
Bromoform	ug/l	< 4.0	< 2.5	< 2.0	< 2.0	<0.40
Bromomethane	ug/l	< 20.0	< 12.5	<4.0	<4.0	<1.8
Carbon Disulfide	ug/l	< 8.0	< 5.0	<4.0	<4.0	<0.75
Carbon Tetrachloride	ug/l	< 4.0	< 2.5	< 2.0	< 2.0	<1.1
Chlorobenzene	ug/l	< 4.0	< 2.5	< 2.0	< 2.0	<0.62
Chloroethane	ug/l	< 4.0	< 2.5	< 2.0	< 2.0	<2.2
Chloroform	ug/l	**6.1**	< 2.5	**7.6 J**	**5.4 J**	**4.9 J**
Chloromethane	ug/l	**1.4 J**	< 2.5	< 2.0	< 2.0	<0.79
cis-1,3-Dichloropropene	ug/l	< 4.0	< 2.5	< 2.0	< 2.0	<0.79
Dibromochloromethane	ug/l	< 4.0	< 2.5	< 2.0	< 2.0	<0.81
Dichlorodifluoromethane	ug/l	< 4.0	< 2.5	< 2.0	< 2.0	<0.61
Ethylbenzene	ug/l	< 4.0	< 2.5	< 2.0	< 2.0	<0.61
Methylene Chloride	ug/l	**8.7**	**5.8**	< 4.0	< 4.0	<0.83
Styrene	ug/l	< 4.0	< 2.5	< 2.0	< 2.0	<0.47
Tetrachloroethene	ug/l	< 4.0	< 2.5	< 2.0	< 2.0	<0.98
Toluene	ug/l	**1.3 J**	< 2.5	< 2.0	< 2.0	<0.44
trans-1,3-Dichloropropene	ug/l	< 4.0	< 2.5	< 2.0	< 2.0	<0.70
Trichloroethene	ug/l	**52.2**	**50.1**	**47.9**	**37.9**	**68**
Vinyl Chloride	ug/l	**2.8 J**	< 2.5	**1.7 J**	**1.1 J**	**2.1 J**
Xylenes, Total	ug/l	< 4.0	< 2.5	< 2.0	< 2.0	<1.5
Total VOCs	ug/L	**695**	**530**	**634**	**376**	**793**

APPENDIX C

OW-01 (CDS)

Historical VOC Concentrations

Parameter	Unit	Jun-99	Dec-99	Jun-00	Dec-00	Jun-01	Dec-01	Dec-02	Jun-03	Dec-03	Jun-04	Dec-04	Jun-05	Dec-05	Jun-06	Dec-06	Jun-07
1,1,1-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	**12**	**22**	**23**	**31**	**24**	**46**	**40**	< 5	**12**	**10**	**9.3**	**5.7**	**5.7**	**6.5**	**15**	**12**
1,1-Dichloroethene	ug/l	**28**	**46**	**51**	**49**	**40**	**80**	**82**	< 5	**24**	**18**	**14**	**8.3**	**9.3**	**11**	**29**	**29**
1,2-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene, Total	ug/l	< 5	< 5	< 5	< 5	< 5	**6.2**	**5.8**	< 10	< 2	< 2	< 2	< 2	< 2	< 2	**2.3**	< 2
1,2-Dichloropropane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Benzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2
Carbon Tetrachloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/l	**9.5**	**18**	**16**	**25**	**18**	**32**	**34**	< 5	**8.5**	**7.9**	**5.9**	**4.3**	**4.3**	**4.8**	**10**	**9.1**
Vinyl Chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylenes, Total	ug/l	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/l	**50**	**86**	**90**	**105**	**82**	**164**	**162**	0	**45**	**36**	**29**	**18**	**19**	**22**	**56**	**50**

March 2020

APPENDIX C

OW-01 (CDS)

Historical VOC Concentrations

Parameter	Unit	Dec-07	Jun-08	Dec-08	Jun-09	Dec-09	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17	Mar-18	Mar-19
1,1,1-Trichloroethane	ug/l	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 3	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 3	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
1,1,2-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 3	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
1,1-Dichloroethane	ug/l	33	13	33	10	4.7	11	7.7	6.4	24	21	32	10	8.2	< 1	9.5	< 1	11	6.2	3.8	< 1	3.2
1,1-Dichloroethene	ug/l	86	38	69	31	12	32	24	13	75	60	96	36	26	3.5	24	1.9	27	20	9.6	< 1	5.6
1,2-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 3	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
1,2-Dichloroethene, Total	ug/l	4.2	< 2	4.6	1.2	< 1	1.3	< 1	< 1	2.7	< 3	< 5	< 1	1.1	<1	1.1	< 1	1.1	< 1	< 1	< 1	< 1.0
1,2-Dichloropropane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 3	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
2-Butanone	ug/l	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	<5	< 15	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0
2-Hexanone	ug/l	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	<5	< 15	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0
4-Methyl-2-pentanone	ug/l	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	<5	< 15	< 25	2.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0
Acetone	ug/l	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	<5	< 15	< 25	< 1	< 2	2.6	2.2	< 2	< 2	< 2	< 25	< 25	< 25
Benzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 3	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Bromodichloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 3	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Bromoform	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 3	< 5	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Bromomethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 3	< 5	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 5.0
Carbon Disulfide	ug/l	< 2	< 2	< 5	< 5	< 1	< 1	< 1	< 1	<1	< 3	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2.0
Carbon Tetrachloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 3	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Chlorobenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 3	< 5	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Chloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 3	< 5	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2.0
Chloroform	ug/l	< 1	< 1	1.1	< 1	< 1	< 1	< 1	< 1	<1	< 3	< 5	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Chloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 3	< 5	1.2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1.0
cis-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 3	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Dibromochloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 3	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 3	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Methylene Chloride	ug/l	< 5	< 5	< 2	< 2	< 1	< 1	< 1	< 1	<1	< 3	< 5	--	--	< 1	--	--	< 1	< 1	< 2	< 2	< 2.0
Styrene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 3	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Tetrachloroethene	ug/l	< 1	1.9	2.3	< 1	3.3	< 1	< 1	5.4	<1	< 3	< 5	< 1	< 1	< 1	< 1	< 1	1.6	< 1	< 1	< 1	< 1.0
Toluene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 3	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
trans-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 3	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Trichloroethene	ug/l	25	14	26	8.2	8.2	7.5	5.5	7.1	16	14	26	7.3	5.5	< 1	5.3	< 1	6.6	6.6	2	< 1	1.0
Vinyl Chloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 3	< 5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1.0
Xylenes, Total	ug/l	< 2	< 2	< 2	< 2	< 3	< 3	< 3	< 3	<3	< 9	< 15	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 1	< 1.0
1,4-Dioxane	ug/l	--	--	--	--	< 200	< 200	< 200	< 200	<200	< 600	< 1000	9.1	12	1.4	18	< 5	20	9.9	< 150	< 150	< 150
Total VOCs	ug/l	148	68	136	50	28	52	37	32	118	95	154	66	53	7.5	60	2	67	43	15	0	10

APPENDIX C
OW-01 (CDS)
Historical VOC Concentrations

Parameter	Unit	Mar-20
1,1,1-Trichloroethane	ug/l	<0.061
1,1,2,2-Tetrachloroethane	ug/l	<0.036
1,1,2-Trichloroethane	ug/l	<0.066
1,1-Dichloroethane	ug/l	**3.8**
1,1-Dichloroethene	ug/l	**10**
1,2-Dichloroethane	ug/l	<0.066
1,2-Dichloroethene, Total	ug/l	**0.47 J**
1,2-Dichloropropane	ug/l	<0.11
2-Butanone	ug/l	<0.24
2-Hexanone	ug/l	<0.065
4-Methyl-2-pentanone	ug/l	<0.078
Acetone	ug/l	<0.31
Benzene	ug/l	<0.048
Bromodichloromethane	ug/l	<0.062
Bromoform	ug/l	<0.040
Bromomethane	ug/l	<0.18
Carbon Disulfide	ug/l	<0.075
Carbon Tetrachloride	ug/l	<0.11
Chlorobenzene	ug/l	<0.062
Chloroethane	ug/l	<0.22
Chloroform	ug/l	<0.076
Chloromethane	ug/l	<0.079
cis-1,3-Dichloropropene	ug/l	<0.079
Dibromochloromethane	ug/l	<0.081
Ethylbenzene	ug/l	<0.061
Methylene Chloride	ug/l	<0.083
Styrene	ug/l	<0.047
Tetrachloroethene	ug/l	<0.098
Toluene	ug/l	<0.044
trans-1,3-Dichloropropene	ug/l	<0.070
Trichloroethene	ug/l	**2.2**
Vinyl Chloride	ug/l	<0.097
Xylenes, Total	ug/l	<0.15
1,4-Dioxane	ug/l	**5.8**
Total VOCs	ug/l	**22**

APPENDIX C
OW-02D (CDS)
Historical VOC Concentrations

Parameter	Unit	Jun-99	Dec-99	Jun-00	Dec-00	Jun-01	Dec-01	Jul-02	Dec-02	Jun-03	Dec-03	Jun-04	Dec-04	Jun-05	Dec-05	Jun-06	Dec-06	Jun-07
1,1,1-Trichloroethane	ug/l	**11**	**7.6**	**15**	**9.2**	**13**	**7.3**	< 10	< 10	< 25	**2.4**	**3.2**	**2.9**	**1.4**	**3.2**	**1.9**	**2.8**	**3**
1,1,2,2-Tetrachloroethane	ug/l	< 5	< 5	< 5	< 5	< 10	< 5	< 10	< 10	< 25	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 10	< 5	< 10	< 10	< 25	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	**49**	**32**	**74**	**39**	**68**	**49**	**50**	**51**	**45**	**22**	**31**	**31**	**23**	**32**	**21**	**36**	**50**
1,1-Dichloroethene	ug/l	**160**	**100**	**210**	**110**	**190**	**170**	**180**	**180**	**180**	**63**	**110**	**95**	**62**	**93**	**57**	**130**	**150**
1,2-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 10	< 5	< 10	< 10	< 25	< 2	**1.2**	**1.4**	**1.1**	**1.4**	**1.0**	**1.4**	**1.4**
1,2-Dichloroethene, Total	ug/l	< 5	< 5	6.3	< 5	< 10	< 5	< 10	< 10	< 50	< 4	**3.0**	**3.1**	< 2	**2.8**	**2.0**	**3.2**	**4.5**
1,2-Dichloropropane	ug/l	< 5	< 5	< 5	< 5	< 10	< 5	< 10	< 10	< 25	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	ug/l	< 25	< 25	< 25	< 25	< 50	< 25	< 50	< 50	< 120	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	ug/l	< 25	< 25	< 25	< 25	< 50	< 25	< 50	< 50	< 120	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	ug/l	< 25	< 25	< 25	< 25	< 50	< 25	< 50	< 50	< 120	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	ug/l	< 50	< 50	< 50	< 50	< 100	< 50	< 100	< 100	< 250	< 50	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Benzene	ug/l	< 5	< 5	< 5	< 5	< 10	< 5	< 10	< 10	< 25	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 5	< 5	< 5	< 5	< 10	< 5	< 10	< 10	< 25	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 10	< 5	< 10	< 10	< 25	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	ug/l	< 10	< 10	< 10	< 10	< 20	< 10	< 20	< 20	< 25	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	ug/l	< 5	< 5	< 5	< 5	< 10	< 5	< 10	< 10	< 25	< 2	< 1	< 1	< 1	< 1	< 2	< 2	< 2
Carbon Tetrachloride	ug/l	< 5	< 5	< 5	< 5	< 10	< 5	< 10	< 10	< 25	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/l	< 5	< 5	< 5	< 5	< 10	< 5	< 10	< 10	< 25	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 20	< 10	< 20	< 20	< 25	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/l	< 5	< 5	< 5	< 5	< 10	< 5	< 10	< 10	< 25	< 2	**1.9**	**1.9**	**1.3**	**1.8**	**1.4**	**2.1**	**2.6**
Chloromethane	ug/l	< 10	< 10	< 10	< 10	< 20	< 10	< 20	< 20	< 25	< 2	< 1	**1.2**	< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 10	< 5	< 10	< 10	< 25	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 5	< 5	< 5	< 5	< 10	< 5	< 10	< 10	< 25	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/l	< 5	< 5	< 5	< 5	< 10	< 5	< 10	< 10	< 25	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/l	< 5	< 5	< 5	< 5	< 10	< 5	< 10	< 10	< 25	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	< 5	< 5	< 5	< 10	< 5	< 10	< 10	< 25	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/l	< 5	< 5	< 5	< 5	< 10	< 5	< 10	< 10	< 25	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 5	< 5	< 5	< 5	< 10	< 5	< 10	< 10	< 25	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 10	< 5	< 10	< 10	< 25	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/l	**45**	**32**	**60**	**43**	**62**	**44**	**52**	**54**	**37**	**19**	**27**	**24**	**18**	**24**	**16**	**28**	**33**
Vinyl Chloride	ug/l	< 10	< 10	< 10	< 10	< 20	< 10	< 20	< 20	< 25	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylenes, Total	ug/l	< 5	< 10	< 10	< 10	< 20	< 10	< 20	< 20	< 50	< 4	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/l	**265**	**172**	**365**	**201**	**333**	**270**	**282**	**285**	**262**	**106**	**177**	**161**	**107**	**158**	**100**	**204**	**245**

APPENDIX C
OW-02D (CDS)
Historical VOC Concentrations

Parameter	Unit	Dec-07	Jun-08	Dec-08	Jun-09	Dec-09	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17	Sep-17	Mar-18	Oct-18
1,1,1-Trichloroethane	ug/l	**1.9**	**8.3**	**5.8**	**6.3**	**6.1**	< 25	< 10	< 13	<13	< 13	< 10	**3.7**	**3.0**	**3.0**	**2.0**	**3.0**	**2.2**	**2.3**	**2.8**	**1.2J**	**2.4 J**	**0.97 J**
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1	< 2	< 1	< 1	< 25	< 10	< 13	<13	< 13	< 10	< 2.5	< 2.5	< 1	< 1	< 2	< 1	< 1	< 2.5	>2.5	< 2.5	< 2.0
1,1,2-Trichloroethane	ug/l	< 1	**1**	< 2	< 1	< 1	< 25	< 10	< 13	<13	< 13	< 10	< 2.5	< 2.5	< 1	< 1	< 2	< 1	< 1	< 2.5	<2.5	< 2.5	< 1.0
1,1-Dichloroethane	ug/l	**28**	**110**	**110**	**140**	**89**	**130**	**89**	**90**	**74**	**97**	**87**	**89**	**99**	**100**	**79**	**97**	**110**	**86**	**122**	**98.5**	**100**	**83.2**
1,1-Dichloroethene	ug/l	**90**	**340**	**390**	**510**	**320**	**370**	**280**	**290**	**230**	**290**	**270**	**300**	**290**	**300**	**220**	**290**	**280**	**190**	**315**	**266**	**243**	**201**
1,2-Dichloroethane	ug/l	**1.2**	**4.3**	**3.6**	**3.9**	**3.0**	< 25	< 10	< 13	<13	< 13	< 10	**3.2**	**3.3**	**3.0**	**2.6**	**3.1**	**2.8**	**2.3**	**3.0**	**2.2J**	**3.6**	**2.6**
1,2-Dichloroethene, Total	ug/l	**2.4**	**9.9**	**9.1**	**9.6**	**9.0**	< 25	< 10	< 13	<13	< 13	< 10	< 2.5	**8.1**	**8.8**	**6.6**	**7.7**	**8.2**	**6.2**	**9.0**	**7.3**	**7.5**	**6.2**
1,2-Dichloropropane	ug/l	< 1	< 1	< 2	< 1	< 1	< 25	< 10	< 13	<13	< 13	< 10	< 13	< 2.5	< 1	< 1	< 2	< 1	< 1	< 2.5	<2.5	< 2.5	< 2.0
2-Butanone	ug/l	< 10	< 10	< 10	< 5	< 5	< 120	< 50	< 63	<63	< 63	< 50	< 13	< 13	< 5	< 5	< 10	< 5	< 5	< 12.5	< 12.5	< 12.5	< 10.0
2-Hexanone	ug/l	< 10	< 10	< 10	< 5	< 5	< 120	< 50	< 63	<63	< 63	< 50	< 13	< 13	< 5	< 5	< 10	< 5	< 5	< 12.5	< 12.5	< 12.5	< 10.0
4-Methyl-2-pentanone	ug/l	< 10	< 10	< 10	< 5	< 5	< 120	< 50	< 63	<63	< 63	< 50	< 5	< 13	< 5	< 5	< 10	< 5	< 5	< 12.5	< 12.5	< 12.5	< 10.0
Acetone	ug/l	< 25	< 25	< 10	< 5	< 5	< 120	< 50	< 63	<63	< 63	< 50	< 2.5	< 5	**2.3**	< 2	< 4	**2.3**	< 2	< 62.5	< 62.5	< 62.5	< 50.0
Benzene	ug/l	< 1	< 1	< 2	< 1	< 1	< 25	< 10	< 13	<13	< 13	< 10	< 2.5	< 2.5	< 1	< 1	< 2	< 1	< 1	< 2.5	< 2.5	**0.66 J**	< 2.0
Bromodichloromethane	ug/l	< 1	< 1	< 2	< 1	< 1	< 25	< 10	< 13	<13	< 13	< 10	< 2.5	< 2.5	< 1	< 1	< 2	< 1	< 1	< 2.5	< 2.5	< 2.5	< 2.0
Bromoform	ug/l	< 1	< 1	< 2	< 1	< 1	< 25	< 10	< 13	<13	< 13	< 10	< 5	< 2.5	< 1	< 1	< 2	< 1	< 1	< 2.5	< 2.5	< 2.5	< 2.0
Bromomethane	ug/l	< 1	< 1	< 2	< 1	< 1	< 25	< 10	< 13	<13	< 13	< 10	< 2.5	< 5	< 2	< 2	< 4	< 2	< 2	< 12.5	< 12.5	< 12.5	< 10.0
Carbon Disulfide	ug/l	< 2	< 2	< 10	< 5	< 1	< 25	< 10	< 13	<13	< 13	< 10	< 2.5	< 2.5	< 1	< 1	< 2	< 1	< 1	< 5.0	<5.0	<5.0	< 4.0
Carbon Tetrachloride	ug/l	< 1	< 1	< 2	< 1	< 1	< 25	< 10	< 13	<13	< 13	< 10	< 2.5	< 2.5	< 1	< 1	< 2	< 1	< 1	< 2.5	< 2.5	< 2.5	< 2.0
Chlorobenzene	ug/l	< 1	< 1	< 2	< 1	< 1	< 25	< 10	< 13	<13	< 13	< 10	< 5	< 2.5	< 1	< 1	< 2	< 1	< 1	< 2.5	< 2.5	< 2.5	< 2.0
Chloroethane	ug/l	< 1	< 1	< 2	< 1	< 1	< 25	< 10	< 13	<13	< 13	< 10	**5.9**	< 5	< 2	< 2	< 4	< 2	< 2	< 2.5	< 2.5	< 2.5	< 2.0
Chloroform	ug/l	**1.8**	**6.5**	**6.4**	**6.7**	**5.5**	< 25	< 10	< 13	<13	< 13	< 10	< 5	**4.9**	**5.2**	**4.7**	**5.7**	**5.7**	**4.6**	**6.2**	**4.2**	**6**	**4.9**
Chloromethane	ug/l	< 1	< 1	< 2	< 1	< 1	< 25	< 10	< 13	<13	< 13	< 10	**7.5**	< 5	< 2	< 2	< 4	< 2	< 2	< 2.5	< 2.5	< 2.5	< 2.0
cis-1,3-Dichloropropene	ug/l	< 1	< 1	< 2	< 1	< 1	< 25	< 10	< 13	<13	< 13	< 10	< 2.5	< 2.5	< 1	< 1	< 2	< 1	< 1	< 2.5	< 2.5	< 2.5	< 2.0
Dibromochloromethane	ug/l	< 1	< 1	< 2	< 1	< 1	< 25	< 10	< 13	<13	< 13	< 10	< 2.5	< 2.5	< 1	< 1	< 2	< 1	< 1	< 2.5	< 2.5	< 2.5	< 2.0
Ethylbenzene	ug/l	< 1	< 1	< 2	< 1	< 1	< 25	< 10	< 13	<13	< 13	< 10	< 2.5	< 2.5	< 1	< 1	< 2	< 1	< 1	< 2.5	< 2.5	< 2.5	< 2.0
Methylene Chloride	ug/l	< 5	< 5	< 4	< 2	< 1	< 25	< 10	< 13	<13	< 13	< 10	--	--	< 1	--	--	< 1	< 1	< 5.0	< 5.0	< 5.0	< 4.0
Styrene	ug/l	< 1	< 1	< 2	< 1	< 1	< 25	< 10	< 13	<13	< 13	< 10	< 2.5	< 2.5	< 1	< 1	< 2	< 1	< 1	< 2.5	< 2.5	< 2.5	< 2.0
Tetrachloroethene	ug/l	< 1	**3.8**	**3.3**	< 1	**2.1**	< 25	**99**	< 13	<13	< 13	< 10	< 2.5	< 2.5	**2.3**	**1.3**	< 2	**1.4**	**2.0**	**1.2 J**	<2.5	<2.5	< 2.0
Toluene	ug/l	< 1	< 1	< 2	< 1	< 1	< 25	< 10	< 13	<13	< 13	< 10	< 2.5	< 2.5	< 1	< 1	< 2	< 1	< 1	< 2.5	<2.5	**0.89 J**	**1.1 J**
trans-1,3-Dichloropropene	ug/l	< 1	< 1	< 2	< 1	< 1	< 25	< 10	< 13	<13	< 13	< 10	< 2.5	< 2.5	< 1	< 1	< 2	< 1	< 1	< 2.5	<2.5	<2.5	< 2.0
Trichloroethene	ug/l	**23**	**95**	< 10	**83**	**68**	**85**	**62**	**64**	**52**	**65**	**69**	**64**	**62**	**65**	**46**	**51**	**55**	**49**	**53.9**	**42.2**	**51.5**	**44.6**
Vinyl Chloride	ug/l	< 1	< 1	< 2	< 1	< 1	< 25	< 10	< 13	<13	< 13	< 10	< 5	<5	< 2	< 2	< 4	< 2	< 2	< 2.5	<2.5	<2.5	< 2.0
Xylenes, Total	ug/l	< 2	< 2	< 4	< 2	< 3	< 75	< 30	< 38	<38	< 38	< 30	< 7.5	< 7.5	< 3	< 3	< 6	< 3	< 3	< 2.5	<2.5	<2.5	< 2.0
1,4-Dioxane	ug/l	--	--	--	--	< 200	< 5000	< 2000	< 2500	<2500	< 2500	< 2000	**150**	**170**	**180**	**160**	**150**	**150**	**120**	< 375	<375	<375	< 300
Total VOCs	ug/l	**148**	**579**	**528**	**760**	**503**	**585**	**530**	**444**	**356**	**452**	**426**	**623**	**640**	**670**	**522**	**608**	**618**	**462**	**513**	**422**	**416**	**345**

APPENDIX C
OW-02D (CDS)
Historical VOC Concentrations

Parameter	Unit	Mar-19	Sep-19	Mar-20
1,1,1-Trichloroethane	ug/l	< 2.0	<2.0	**2.1**
1,1,2,2-Tetrachloroethane	ug/l	< 2.0	<2.0	<0.036
1,1,2-Trichloroethane	ug/l	< 1.0	<2.0	**0.61**
1,1-Dichloroethane	ug/l	**123**	**104**	**120**
1,1-Dichloroethene	ug/l	**262**	**223**	**260**
1,2-Dichloroethane	ug/l	**3.2**	**2.7**	**2.8**
1,2-Dichloroethene, Total	ug/l	**8.4**	**6.8**	**8.2**
1,2-Dichloropropane	ug/l	< 2.0	<2.0	<0.11
2-Butanone	ug/l	< 10.0	<10.0	<0.24
2-Hexanone	ug/l	< 10.0	<10.0	<0.065
4-Methyl-2-pentanone	ug/l	< 10.0	<10.0	<0.078
Acetone	ug/l	**87.6**	<50.0	<0.31
Benzene	ug/l	< 2.0	<2.0	<0.048
Bromodichloromethane	ug/l	< 2.0	<2.0	<0.062
Bromoform	ug/l	< 2.0	<2.0	<0.040
Bromomethane	ug/l	< 10.0	<10.0	<0.18
Carbon Disulfide	ug/l	< 4.0	<4.0	<0.075
Carbon Tetrachloride	ug/l	< 2.0	<2.0	<0.11
Chlorobenzene	ug/l	< 2.0	<2.0	<0.062
Chloroethane	ug/l	< 2.0	<2.0	<0.22
Chloroform	ug/l	**7.3 J**	**5.4 J**	**6.0**
Chloromethane	ug/l	< 2.0	<2.0	<0.079
cis-1,3-Dichloropropene	ug/l	< 2.0	<2.0	<0.079
Dibromochloromethane	ug/l	< 2.0	<2.0	<0.081
Ethylbenzene	ug/l	< 2.0	<2.0	<0.061
Methylene Chloride	ug/l	< 4.0	<10.0	<0.083
Styrene	ug/l	< 2.0	<2.0	<0.047
Tetrachloroethene	ug/l	**1.0 J**	**0.97 J**	**1.2**
Toluene	ug/l	< 2.0	<2.0	<0.044
trans-1,3-Dichloropropene	ug/l	< 2.0	<2.0	<0.070
Trichloroethene	ug/l	**43.9**	**41.2**	**54**
Vinyl Chloride	ug/l	< 2.0	<2.0	**0.57**
Xylenes, Total	ug/l	< 2.0	<2.0	<0.15
1,4-Dioxane	ug/l	< 300	<300	**21**
Total VOCs	ug/l	**536**	**384**	**477**

APPENDIX C
OW-13D (CDS)
Historical VOC Concentrations

Parameter	Unit	Jun-99	Dec-99	Jun-00	Dec-00	Jun-01	Dec-01	Jul-02	Dec-02	Jun-03	Dec-03	Jun-04	Dec-04	Jun-05	Dec-05	Jun-06	Dec-06	Jun-07
1,1,1-Trichloroethane	ug/l	< 100	< 100	< 100	< 50	**240**	< 100	< 100	< 100	< 120	**27**	**20**	< 25	**11**	< 25	**15**	< 20	**14**
1,1,2,2-Tetrachloroethane	ug/l	< 100	< 100	< 100	< 50	< 100	< 100	< 100	< 100	< 120	< 20	< 20	< 25	< 10	< 25	< 10	< 20	< 10
1,1,2-Trichloroethane	ug/l	< 100	< 100	< 100	< 50	< 100	< 100	< 100	< 100	< 120	< 20	< 20	< 25	< 10	< 25	< 10	< 20	< 10
1,1-Dichloroethane	ug/l	< 100	< 100	< 100	< 50	< 100	< 100	< 100	< 100	< 120	**45**	**36**	**50**	**34**	**42**	**27**	**38**	**45**
1,1-Dichloroethene	ug/l	**2300**	**2400**	**2300**	**1400**	**1900**	**2100**	**1800**	**1800**	**2300**	**2000**	**1500**	**2200**	**1400**	**1600**	**1300**	**1800**	**1900**
1,2-Dichloroethane	ug/l	< 100	< 100	< 100	< 50	< 100	< 100	< 100	< 100	< 120	< 20	< 20	< 25	10	< 25	< 10	< 20	< 10
1,2-Dichloroethene, Total	ug/l	< 100	< 100	< 20	< 50	< 100	< 100	< 100	< 100	< 250	< 40	< 40	< 50	< 20	< 50	< 20	< 40	< 20
1,2-Dichloropropane	ug/l	< 100	< 100	< 100	< 50	< 100	< 100	< 100	< 100	< 120	< 20	< 20	< 25	< 10	< 25	< 10	< 20	< 10
2-Butanone	ug/l	< 500	< 500	< 500	< 250	< 500	< 500	< 500	< 500	< 620	< 200	< 200	< 250	< 100	< 250	< 100	< 200	< 100
2-Hexanone	ug/l	< 500	< 500	< 500	< 250	< 500	< 500	< 500	< 500	< 620	< 200	< 200	< 250	< 100	< 250	< 100	< 200	< 100
4-Methyl-2-pentanone	ug/l	< 500	< 500	< 500	< 250	< 500	< 500	< 500	< 500	< 620	< 200	< 200	< 250	< 100	< 250	< 100	< 200	< 100
Acetone	ug/l	< 1000	< 1000	< 1000	< 500	< 1000	< 1000	< 1000	< 1000	< 1200	< 500	< 500	< 620	< 250	< 630	< 250	< 500	< 250
Benzene	ug/l	< 100	< 100	< 100	< 50	< 100	< 100	< 100	< 100	< 120	< 20	< 20	< 25	< 10	< 25	< 10	< 20	< 10
Bromodichloromethane	ug/l	< 100	< 100	< 100	< 50	< 100	< 100	< 100	< 100	< 120	< 20	< 20	< 25	< 10	< 25	< 10	< 20	< 10
Bromoform	ug/l	< 100	< 100	< 100	< 50	< 100	< 100	< 100	< 100	< 120	< 20	< 20	< 25	< 10	< 25	< 10	< 20	< 10
Bromomethane	ug/l	< 200	< 200	< 200	< 100	< 200	< 200	< 200	< 200	< 120	< 20	< 20	< 25	< 10	< 25	< 10	< 20	< 10
Carbon Disulfide	ug/l	< 100	< 100	< 100	< 50	< 100	< 100	< 100	< 100	< 120	< 20	< 20	< 25	< 10	< 25	< 20	< 40	< 20
Carbon Tetrachloride	ug/l	< 100	< 100	< 100	< 50	< 100	< 100	< 100	< 100	< 120	< 20	< 20	< 25	< 10	< 25	< 10	< 20	< 10
Chlorobenzene	ug/l	< 100	< 100	< 100	< 50	< 100	< 100	< 100	< 100	< 120	< 20	< 20	< 25	< 10	< 25	< 10	< 20	< 10
Chloroethane	ug/l	< 200	< 200	< 200	< 100	< 200	< 200	< 200	< 200	< 120	< 20	< 20	< 25	< 10	< 25	< 10	< 20	< 10
Chloroform	ug/l	< 100	< 100	< 100	< 50	< 100	< 100	< 100	< 100	< 120	**44**	**40**	**45**	**35**	**41**	**31**	**57**	**50**
Chloromethane	ug/l	< 200	< 200	< 200	< 100	< 200	< 200	< 200	< 200	< 120	< 20	< 20	< 25	< 10	< 25	< 10	< 20	< 10
cis-1,3-Dichloropropene	ug/l	< 100	< 100	< 100	< 50	< 100	< 100	< 100	< 100	< 120	< 20	< 20	< 25	< 10	< 25	< 10	< 20	< 10
Dibromochloromethane	ug/l	< 100	< 100	< 100	< 50	< 100	< 100	< 100	< 100	< 120	< 20	< 20	< 25	< 10	< 25	< 10	< 20	< 10
Ethylbenzene	ug/l	< 100	< 100	< 100	< 50	< 100	< 100	< 100	< 100	< 120	< 20	< 20	< 25	< 10	< 25	< 10	< 20	< 10
Methylene Chloride	ug/l	< 100	< 100	< 100	< 50	< 100	< 100	< 100	< 100	< 120	< 100	< 100	< 120	< 50	< 130	< 50	< 100	< 50
Styrene	ug/l	< 100	< 100	< 100	< 50	< 100	< 100	< 100	< 100	< 120	< 20	< 20	< 25	< 10	< 25	< 10	< 20	< 10
Tetrachloroethene	ug/l	< 100	< 100	< 100	**85**	< 100	< 100	< 100	< 100	< 120	< 20	< 20	< 25	< 10	< 25	< 10	< 20	< 10
Toluene	ug/l	< 100	< 100	< 100	< 50	< 100	< 100	< 100	< 100	< 120	< 20	< 20	< 25	< 10	< 25	< 10	< 20	< 10
trans-1,3-Dichloropropene	ug/l	< 100	< 100	< 100	< 50	< 100	< 100	< 100	< 100	< 120	< 20	< 20	< 25	< 10	< 25	< 10	< 20	< 10
Trichloroethene	ug/l	**820**	**800**	**670**	**570**	**680**	**620**	**650**	**690**	**730**	**660**	**540**	**680**	**600**	**620**	**470**	**710**	**750**
Vinyl Chloride	ug/l	< 200	< 200	< 200	< 100	< 200	< 200	< 200	< 200	< 120	< 20	< 20	< 25	< 10	< 25	< 10	< 20	< 10
Xylenes, Total	ug/l	< 200	< 200	< 200	< 100	< 200	< 200	< 200	< 200	< 250	< 40	< 40	< 50	< 20	< 50	< 20	< 40	< 20
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/l	**3,120**	**3,200**	**2,970**	**2,055**	**2,820**	**2,720**	**2,450**	**2,490**	**3,030**	**2,776**	**2,136**	**2,975**	**2,090**	**2,303**	**1,843**	**2,605**	**2,759**

March 2020

APPENDIX C
OW-13D (CDS)
Historical VOC Concentrations

Parameter	Unit	Dec-07	Jun-08	Dec-08	Jun-09	Dec-09	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17	Sep-17	Mar-18	Mar-19
1,1,1-Trichloroethane	ug/l	**17**	**15**	< 10	**13**	**12**	< 120	< 75	< 130	<100	< 100	< 75	< 10	< 10	< 10	< 20	< 10	< 10	< 1	< 25	< 12.5	< 12.5	< 12.5
1,1,2,2-Tetrachloroethane	ug/l	< 10	< 5	< 10	< 10	< 1	< 120	< 75	< 130	<100	< 100	< 75	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 25	< 12.5	< 12.5	< 12.5
1,1,2-Trichloroethane	ug/l	< 10	**6.7**	< 10	< 10	**6.6**	< 120	< 75	< 130	<100	< 100	< 75	< 10	< 10	< 10	< 20	< 10	< 10	< 1	< 25	**6.2J**	**4.7 J**	< 12.5
1,1-Dichloroethane	ug/l	**40**	**30**	**42**	**34**	<120	< 120	< 75	< 130	<100	< 100	< 75	**32**	**30**	**36**	**43**	**26**	**39**	**27**	**33.2**	**27.3**	**23.1**	**24.6**
1,1-Dichloroethene	ug/l	**1700**	**1600**	**2100**	**2400**	**1700**	**1600**	**2000**	**1700**	**1700**	**1500**	**1700**	**1900**	**1900**	**2400**	**2200**	**2100**	**1900**	**1900**	**3030**	**2080**	**1440**	**1790**
1,2-Dichloroethane	ug/l	**11**	**10**	**10**	< 10	**7.7**	< 120	< 75	< 130	<100	< 100	< 75	< 10	< 10	< 10	< 20	< 10	< 10	< 1	**13.8 J**	**7.2J**	**9.0 J**	**9.7 J**
1,2-Dichloroethene, Total	ug/l	< 20	**12**	**16**	**12**	**13**	< 120	< 75	< 130	<100	< 100	< 75	< 10	**11**	**13**	< 20	< 10	**10**	< 10	**13.5 J**	**11.1J**	**8.3 J**	**7.2 J**
1,2-Dichloropropane	ug/l	< 10	< 5	< 10	< 10	< 1	< 120	< 75	< 130	<100	< 100	< 75	< 50	< 10	< 10	< 20	< 10	< 10	< 10	< 25	< 12.5	< 12.5	< 12.5
2-Butanone	ug/l	< 100	< 50	< 50	< 50	< 5	< 620	< 380	< 630	<500	< 500	< 380	< 50	< 50	< 50	< 100	< 50	< 50	< 50	< 125	< 62.5	< 62.5	< 62.5
2-Hexanone	ug/l	< 100	< 50	< 50	< 50	< 5	< 620	< 380	< 630	<500	< 500	< 380	< 50	< 50	< 50	< 100	< 50	< 50	< 50	< 125	< 62.5	< 62.5	< 62.5
4-Methyl-2-pentanone	ug/l	< 100	< 50	< 50	< 50	< 5	< 620	< 380	< 630	<500	< 500	< 380	< 20	< 50	< 50	< 100	< 50	< 50	< 50	< 125	< 62.5	< 62.5	< 62.5
Acetone	ug/l	< 250	< 120	< 50	< 50	< 5	< 620	< 380	< 630	<500	< 500	< 380	< 10	< 20	< 20	< 40	**20**	< 20	< 20	< 625	< 312	< 312	< 312
Benzene	ug/l	< 10	< 5	< 10	< 10	< 1	< 120	< 75	< 130	<100	< 100	< 75	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 25	< 12.5	< 12.5	**4.4 J**
Bromodichloromethane	ug/l	< 10	< 5	< 10	< 10	< 1	< 120	< 75	< 130	<100	< 100	< 75	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 25	< 12.5	< 12.5	< 12.5
Bromoform	ug/l	< 10	< 5	< 10	< 10	< 1	< 120	< 75	< 130	<100	< 100	< 75	< 20	< 10	< 10	< 20	< 10	< 10	< 10	< 25	< 12.5	< 12.5	< 12.5
Bromomethane	ug/l	< 10	< 5	< 10	< 10	< 1	< 120	< 75	< 130	<100	< 100	< 75	< 10	< 20	< 20	< 40	< 20	< 20	< 20	< 125	< 62.5	< 62.5	< 62.5
Carbon Disulfide	ug/l	< 20	< 10	< 50	< 50	< 1	**250**	< 75	< 130	<100	< 100	< 75	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 50	< 25	< 25	< 25
Carbon Tetrachloride	ug/l	< 10	< 5	< 10	< 10	**1.1**	< 120	< 75	< 130	<100	< 100	< 75	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 25	< 12.5	< 12.5	< 12.5
Chlorobenzene	ug/l	< 10	< 5	< 10	< 10	< 1	< 120	< 75	< 130	<100	< 100	< 75	< 20	< 10	< 10	< 20	< 10	< 10	< 10	< 25	< 12.5	< 12.5	< 12.5
Chloroethane	ug/l	< 10	< 5	< 10	< 10	< 1	< 120	< 75	< 130	<100	< 100	< 75	**52**	< 20	< 20	< 40	< 20	< 20	< 20	< 25	< 12.5	< 12.5	< 12.5
Chloroform	ug/l	**52**	**35**	**55**	**45**	<120	< 120	< 75	< 130	<100	< 100	< 75	< 20	**59**	**66**	**78**	**52**	**71**	**59**	**71.7**	**64.5**	**46.6**	**59.3 J**
Chloromethane	ug/l	< 10	< 5	< 10	< 10	< 1	< 120	< 75	< 130	<100	< 100	< 75	**11**	< 20	< 20	< 40	< 20	< 20	< 20	< 25	< 12.5	< 12.5	< 12.5
cis-1,3-Dichloropropene	ug/l	< 10	< 5	< 10	< 10	< 1	< 120	< 75	< 130	<100	< 100	< 75	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 25	< 12.5	< 12.5	< 12.5
Dibromochloromethane	ug/l	< 10	< 5	< 10	< 10	< 1	< 120	< 75	< 130	<100	< 100	< 75	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 25	< 12.5	< 12.5	< 12.5
Ethylbenzene	ug/l	< 10	< 5	< 10	< 10	< 1	< 120	< 75	< 130	<100	< 100	< 75	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 25	< 12.5	< 12.5	< 12.5
Methylene Chloride	ug/l	< 50	< 25	< 20	< 20	< 1	< 120	< 75	< 130	<100	< 100	< 75	--	--	< 10	--	--	< 10	< 10	< 50	< 25	< 25	< 25
Styrene	ug/l	< 10	< 5	< 10	< 10	< 1	< 120	< 75	< 130	<100	< 100	< 75	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 25	< 12.5	< 12.5	< 12.5
Tetrachloroethene	ug/l	< 10	< 5	< 10	< 10	**2.9**	< 120	**160**	< 130	<100	< 100	< 75	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 25	< 12.5	< 12.5	< 12.5
Toluene	ug/l	< 10	< 5	< 10	< 10	< 1	< 120	< 75	< 130	<100	< 100	< 75	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 25	< 12.5	< 12.5	**15.2**
trans-1,3-Dichloropropene	ug/l	< 10	< 5	< 10	< 10	< 1	< 120	< 75	< 130	<100	< 100	< 75	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 25	< 12.5	< 12.5	< 12.5
Trichloroethene	ug/l	**710**	**610**	< 100	**660**	**630**	**680**	**680**	**670**	**590**	**600**	**680**	**720**	**690**	**850**	**790**	**540**	**600**	**590**	**639**	**642**	**530**	**546**
Vinyl Chloride	ug/l	< 10	< 5	< 10	< 10	**1.2**	< 120	< 75	< 130	<100	< 100	< 75	< 20	< 20	< 20	< 40	< 20	< 20	< 20	< 25	<12.5	< 12.5	< 12.5
Xylenes, Total	ug/l	< 20	< 10	< 20	< 20	< 3	< 380	< 220	< 380	<300	< 300	< 230	< 30	< 30	< 30	< 60	< 30	< 30	< 30	< 25	<12.5	< 12.5	< 12.5
1,4-Dioxane	ug/l	--	--	--	--	**520**	<25000	<15000	< 25000	<20000	< 20000	< 15000	**430**	**400**	**470**	**440**	**400**	**350**	**340**	< 3,750	<1,880	< 1,880	< 1,880
Total VOCs	ug/l	**2,530**	**2,319**	**2,223**	**3,164**	**2,893**	**2,530**	**2,840**	**2,370**	**2,290**	**2,100**	**2,380**	**3,145**	**3,090**	**3,835**	**3,551**	**3,138**	**2,970**	**2,916**	**3,873**	**2,838**	**2,062**	**2,456**

APPENDIX C
OW-13D (CDS)
Historical VOC Concentrations

Parameter	Unit	Mar-20
1,1,1-Trichloroethane	ug/l	**3.1 J**
1,1,2,2-Tetrachloroethane	ug/l	<0.36
1,1,2-Trichloroethane	ug/l	**3.9 J**
1,1-Dichloroethane	ug/l	**22**
1,1-Dichloroethene	ug/l	**1800**
1,2-Dichloroethane	ug/l	**6.8**
1,2-Dichloroethene, Total	ug/l	**7.6**
1,2-Dichloropropane	ug/l	<1.1
2-Butanone	ug/l	<2.4
2-Hexanone	ug/l	<0.65
4-Methyl-2-pentanone	ug/l	<0.78
Acetone	ug/l	<3.1
Benzene	ug/l	<0.48
Bromodichloromethane	ug/l	<0.62
Bromoform	ug/l	<0.40
Bromomethane	ug/l	<1.8
Carbon Disulfide	ug/l	<0.75
Carbon Tetrachloride	ug/l	<1.1
Chlorobenzene	ug/l	<0.62
Chloroethane	ug/l	<2.2
Chloroform	ug/l	**47**
Chloromethane	ug/l	<0.79
cis-1,3-Dichloropropene	ug/l	<0.79
Dibromochloromethane	ug/l	<1.1
Ethylbenzene	ug/l	<0.61
Methylene Chloride	ug/l	<0.83
Styrene	ug/l	<0.47
Tetrachloroethene	ug/l	**2.2 J**
Toluene	ug/l	<0.44
trans-1,3-Dichloropropene	ug/l	<0.70
Trichloroethene	ug/l	**620**
Vinyl Chloride	ug/l	<0.97
Xylenes, Total	ug/l	<1.5
1,4-Dioxane	ug/l	**330**
Total VOCs	ug/l	**2,843**

APPENDIX C
OW-13S (CDS)
Historical VOC Concentrations

Parameter	Unit	Mar-19	Mar-20
1,1,1-Trichloroethane	ug/l	< 1.0	<0.061
1,1,2,2-Tetrachloroethane	ug/l	< 1.0	<0.036
1,1,2-Trichloroethane	ug/l	**0.76 J**	**0.72**
1,1-Dichloroethane	ug/l	**55.7**	**68**
1,1-Dichloroethene	ug/l	**157**	**93**
1,2-Dichloroethane	ug/l	**1.0**	**0.86**
1,2-Dichloroethene, Total	ug/l	**18.5**	**21**
1,2-Dichloropropane	ug/l	< 1.0	<0.11
2-Butanone	ug/l	< 5.0	<0.24
2-Hexanone	ug/l	< 5.0	<0.065
4-Methyl-2-pentanone	ug/l	< 5.0	<0.078
Acetone	ug/l	< 25	<0.31
Benzene	ug/l	< 1.0	<0.048
Bromodichloromethane	ug/l	< 1.0	<0.062
Bromoform	ug/l	< 1.0	<0.040
Bromomethane	ug/l	< 5.0	<0.18
Carbon Disulfide	ug/l	< 2.0	<0.075
Carbon Tetrachloride	ug/l	< 1.0	<0.11
Chlorobenzene	ug/l	< 1.0	<0.062
Chloroethane	ug/l	< 2.0	<0.22
Chloroform	ug/l	**5.7**	**4.9**
Chloromethane	ug/l	< 1.0	<0.079
cis-1,3-Dichloropropene	ug/l	< 1.0	<0.079
Dibromochloromethane	ug/l	< 1.0	<0.081
Ethylbenzene	ug/l	< 1.0	<0.061
Methylene Chloride	ug/l	< 2.0	<0.083
Styrene	ug/l	< 1.0	<0.047
Tetrachloroethene	ug/l	< 1.0	<0.098
Toluene	ug/l	< 1.0	<0.044
trans-1,3-Dichloropropene	ug/l	< 1.0	<0.070
Trichloroethene	ug/l	**53.8**	**29.0**
Vinyl Chloride	ug/l	< 1.0	**0.24 J**
Xylenes, Total	ug/l	< 1.0	<0.15
1,4-Dioxane	ug/l	< 150	**21**
Total VOCs	ug/l	**292**	**239**

APPENDIX C
OW-16 (CDS)
Historical VOC Concentrations

Parameter	Unit	Jun-99	Dec-99	Jun-00	Dec-00	Jun-01	Dec-01	Jul-02	Dec-02	Jun-03	Dec-03	Jun-04	Dec-04	Jun-05	Dec-05	Jun-06	Dec-06	Jun-07
1,1,1-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	**55**	**51**	**63**	**60**	**67**	**45**	**56**	**40**	**50**	**46**	**52**	**52**	**33**	**44**	**42**	**61**	**60**
1,1-Dichloroethene	ug/l	**180**	**140**	**140**	**160**	**160**	**120**	**150**	**110**	**130**	**110**	**140**	**130**	**61**	**71**	**91**	**160**	**110**
1,2-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	1.1	< 1
1,2-Dichloroethene, Total	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	**3.0**	**3.4**	**3.8**	**< 2**	**3.1**	**3.4**	**4.0**	**4.9**
1,2-Dichloropropane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Benzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2
Carbon Tetrachloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	**1.3**	**1.1**	**2.0**	**2.0**	**2.0**	**3.7**
Chlorobenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**3.5**	**3.2**	**3.7**	**2.4**	**3.2**	**3.2**	**4.0**	**4.8**
Chloromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	2	< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/l	**55**	**50**	**55**	**62**	**63**	**47**	**71**	**62**	**52**	**66**	**64**	**73**	**50**	**75**	**77**	**95**	**100**
Vinyl Chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylenes, Total	ug/l	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/l	**290**	**241**	**258**	**282**	**290**	**212**	**277**	**212**	**232**	**229**	**263**	**266**	**148**	**198**	**219**	**327**	**283**

March 2020

APPENDIX C
OW-16 (CDS)
Historical VOC Concentrations

Parameter	Unit	Dec-07	Jun-08	Dec-08	Jun-09	Dec-09	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17	Sep-17	Mar-18	Oct-18
1,1,1-Trichloroethane	ug/l	< 1	**2.2**	< 1	< 1	< 1	< 5	< 4	< 5	<5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 5	< 4	< 5	<5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
1,1,2-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 5	< 4	< 5	<5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.32 J**	< 1.0
1,1-Dichloroethane	ug/l	**67**	**61**	**66**	**80**	**51**	**67**	**54**	**55**	**48**	**58**	**53**	**63**	**53**	**66**	**68**	**65**	**69**	**52**	**84.6**	**71**	**62.7**	**55.6**
1,1-Dichloroethene	ug/l	**140**	**120**	**140**	**180**	**99**	**110**	**88**	**86**	**76**	**95**	**89**	**110**	**93**	**100**	**94**	**84**	**99**	**53**	**172**	**115**	**102**	**82.4**
1,2-Dichloroethane	ug/l	**1.0**	**1.0**	< 1	**1.2**	< 1	< 5	< 4	< 5	<5	< 5	< 5	< 1	< 1	< 1	< 1	**1.1**	< 1	< 1	**0.93 J**	**0.88J**	**1.1**	**0.80 J**
1,2-Dichloroethene, Total	ug/l	**4.5**	**4.3**	**5.3**	**5.2**	**4.8**	< 5	< 4	< 5	<5	< 5	< 5	< 1	**4.8**	**5.2**	**4.8**	**4.8**	**5.1**	**4.3**	**6.2**	**5.2**	**5.3**	**4.7**
1,2-Dichloropropane	ug/l	< 1	< 1	< 1	< 1	< 1	< 5	< 4	< 5	<5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	< 1.0
2-Butanone	ug/l	< 10	< 10	< 5	< 5	< 5	< 25	< 20	< 25	<25	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**2.4J**	<5.0	< 5.0
2-Hexanone	ug/l	< 10	< 10	< 5	< 5	< 5	< 25	< 20	< 25	<25	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	< 5.0
4-Methyl-2-pentanone	ug/l	< 10	< 10	< 5	< 5	< 5	< 25	< 20	< 25	<25	< 25	< 25	< 2	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	< 5.0
Acetone	ug/l	< 25	< 25	< 5	< 5	< 5	< 25	< 20	< 25	<25	< 25	< 25	< 1	< 2	**2.7**	< 2	< 2	< 2	< 2	< 25	**13.1J**	< 25	< 25
Benzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 5	< 4	< 5	<5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1.0
Bromodichloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 5	< 4	< 5	<5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Bromoform	ug/l	< 1	< 1	< 1	< 1	< 1	< 5	< 4	< 5	<5	< 5	< 5	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1.0
Bromomethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 5	< 4	< 5	<5	< 5	< 5	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 5	<5	< 5	< 5.0
Carbon Disulfide	ug/l	< 2	< 2	< 5	< 5	< 1	**13**	< 4	< 5	<5	< 5	< 5	**3.8**	< 1	< 1	< 1	< 1	< 1	< 1	< 2	<2	< 2	< 2.0
Carbon Tetrachloride	ug/l	< 1	**3.0**	**2.8**	**3.1**	**3.4**	< 5	< 4	< 5	<5	< 5	< 5	< 1	3.6	**4.7**	**4.2**	**3.7**	**4.0**	**2.1**	**6**	**5.1**	**4.8**	**6.0**
Chlorobenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 5	< 4	< 5	<5	< 5	< 5	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1.0
Chloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 5	< 4	< 5	<5	< 5	< 5	**4.0**	< 2	< 2	< 2	< 2	< 2	< 2	< 1	<1	< 1	< 1.0
Chloroform	ug/l	**4.2**	**3.9**	**3.9**	**4.6**	< 5	< 5	< 4	< 5	<5	< 5	< 5	< 2	**3.6**	**4.2**	**4.7**	**4.1**	**4.4**	**3.3**	**5.6**	**4.6**	**4.5**	**5.0**
Chloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 5	< 4	< 5	<5	< 5	< 5	**4.9**	< 2	< 2	< 2	< 2	< 2	< 2	< 2	<1	< 1	< 1.0
cis-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 5	< 4	< 5	<5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Dibromochloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 5	< 4	< 5	<5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 5	< 4	< 5	<5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Methylene Chloride	ug/l	< 5	< 5	< 2	< 2	< 1	< 5	< 4	< 5	<5	< 5	< 5	--	--	< 1	--	--	< 1	< 1	< 2	< 2	< 2	< 2.0
Styrene	ug/l	< 1	< 1	< 1	< 1	< 1	< 5	< 4	< 5	<5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Tetrachloroethene	ug/l	< 1	**4.0**	**3.8**	< 1	**2.1**	< 5	**65**	< 5	<5	< 5	< 5	**1.1**	< 1	< 1	< 1	**1.6**	**1.1**	< 1	**0.49 J**	<1	< 1	< 1.0
Toluene	ug/l	< 1	< 1	< 1	< 1	< 1	< 5	< 4	< 5	<5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1.0
trans-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 5	< 4	< 5	<5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1.0
Trichloroethene	ug/l	**95**	**95**	< 10	**100**	**72**	**91**	**71**	**75**	**64**	**73**	**81**	**75**	**67**	**82**	**76**	**56**	**70**	**55**	**93.4**	**85.6**	**84.8**	**87.2**
Vinyl Chloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 5	< 4	< 5	<5	< 5	< 5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	<1	< 1	< 1.0
Xylenes, Total	ug/l	< 2	< 2	< 2	< 2	< 3	< 15	< 12	< 15	<15	< 15	< 15	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	<1	< 1	< 1.0
1,4-Dioxane	ug/l	--	--	--	--	< 200	< 1000	< 800	< 1000	<1000	< 1000	< 1000	**58**	**140**	**74**	**68**	**70**	**71**	**110**	< 150	<150	< 150	< 150
Total VOCs	ug/l	**312**	**294**	**222**	**374**	**232**	**281**	**278**	**216**	**188**	**226**	**223**	**320**	**365**	**339**	**320**	**290**	**324**	**280**	**369**	**303**	**266**	**242**

APPENDIX C
OW-16 (CDS)
Historical VOC Concentrations

Parameter	Unit	Mar-19	Sep-19	Mar-20
1,1,1-Trichloroethane	ug/l	< 1.0	< 1.0	<0.061
1,1,2,2-Tetrachloroethane	ug/l	< 1.0	< 1.0	<0.036
1,1,2-Trichloroethane	ug/l	< 1.0	< 1.0	<0.066
1,1-Dichloroethane	ug/l	**79.0**	**60.6**	**59**
1,1-Dichloroethene	ug/l	**110**	**74.8**	**81**
1,2-Dichloroethane	ug/l	**1.0**	**0.77 J**	**0.82**
1,2-Dichloroethene, Total	ug/l	**6.1**	**4.3**	**4.7**
1,2-Dichloropropane	ug/l	< 1.0	< 1.0	<0.11
2-Butanone	ug/l	< 5.0	< 5.0	<0.24
2-Hexanone	ug/l	< 5.0	< 5.0	<0.065
4-Methyl-2-pentanone	ug/l	< 5.0	< 5.0	<0.078
Acetone	ug/l	**97.4**	< 25.0	<0.31
Benzene	ug/l	< 1.0	< 1.0	<0.048
Bromodichloromethane	ug/l	< 1.0	< 1.0	<0.062
Bromoform	ug/l	< 1.0	< 1.0	<0.040
Bromomethane	ug/l	< 5.0	< 5.0	<0.18
Carbon Disulfide	ug/l	< 2.0	< 2.0	<0.075
Carbon Tetrachloride	ug/l	**5.8**	**5.5**	**4.9**
Chlorobenzene	ug/l	< 1.0	< 1.0	<0.062
Chloroethane	ug/l	< 1.0	< 1.0	<0.22
Chloroform	ug/l	**6.0**	**5.3**	**4.6**
Chloromethane	ug/l	< 1.0	< 1.0	<0.079
cis-1,3-Dichloropropene	ug/l	< 1.0	< 1.0	<0.079
Dibromochloromethane	ug/l	< 1.0	< 1.0	<0.081
Ethylbenzene	ug/l	< 1.0	< 1.0	<0.061
Methylene Chloride	ug/l	< 2.0	< 2.1	<0.083
Styrene	ug/l	< 1.0	< 1.0	<0.047
Tetrachloroethene	ug/l	< 1.0	< 1.0	**0.34 J**
Toluene	ug/l	< 1.0	< 1.0	<0.044
trans-1,3-Dichloropropene	ug/l	< 1.0	< 1.0	<0.070
Trichloroethene	ug/l	**85.8**	**72.0**	**76**
Vinyl Chloride	ug/l	< 1.0	< 1.0	<0.097
Xylenes, Total	ug/l	< 1.0	< 1.0	<0.15
1,4-Dioxane	ug/l	< 150	< 150	**61**
Total VOCs	ug/l	**391**	**223**	**292**

APPENDIX C

OW-17 (CDS)

Historical VOC Concentrations

Parameter	Unit	Jun-99	Dec-99	Jun-00	Dec-00	Jun-01	Dec-01	Jul-02	Dec-02	Jun-03	Dec-03	Jun-04	Dec-04	Jun-05	Dec-05	Jun-06	Dec-06	Jun-07
1,1,1-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	ug/l	< 5	**6.4**	**6.4**	**6.0**	**8.6**	**13**	**14**	**10**	**11**	**7.8**	**2.6**	**9.4**	**3.3**	**4.1**	**1.6**	< 1	**11**
1,2-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene, Total	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloropropane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	**43**	< 10	< 10
2-Hexanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Benzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2
Carbon Tetrachloride	ug/l	< 5	< 5	< 5	< 5	**5.1**	< 5	**7.0**	**5.7**	< 5	**3.6**	**1.2**	**4.0**	**1.6**	**2.3**	< 1	**1.9**	**4.9**
Chlorobenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**1.6**	**1.2**	**1.5**	**1.1**	**1.3**	< 1	**1.5**	**2.5**
Chloromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	**1.9**	< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/l	< 5	**5.5**	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/l	**27**	**38**	**29**	**30**	**34**	**30**	**35**	**29**	**26**	**24**	**12**	**19**	**11**	**13**	**6.7**	**13**	**26**
Vinyl Chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylenes, Total	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/l	**27**	**50**	**35**	**36**	**48**	**43**	**56**	**45**	**37**	**37**	**17**	**36**	**17**	**21**	**51**	**16**	**44**

March 2020

APPENDIX C

OW-17 (CDS)

Historical VOC Concentrations

Parameter	Unit	Dec-07	Jun-08	Dec-08	Jun-09	Dec-09	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17	Mar-18
1,1,1-Trichloroethane	ug/l	< 1	< 1	**3.9**	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.1**	< 1	**0.92 J**	**1.3**
1,1-Dichloroethene	ug/l	**13**	**5.1**	**18**	**19**	**13**	**14**	**8.5**	**13**	**15**	**16**	**15**	**16**	**16**	**15**	**15**	**12**	**16**	**15**	**13.7**	**22.3**
1,2-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.34 J**
1,2-Dichloroethene, Total	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	ug/l	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**2.7 J**
2-Hexanone	ug/l	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone	ug/l	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 2	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acetone	ug/l	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 1	< 2	**2.3**	< 2	< 2	< 2	< 2	< 25	**16.2 J**
Benzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5
Carbon Disulfide	ug/l	< 2	< 2	< 5	< 5	< 1	< 1	< 1	< 1	<1	< 1	< 1	**9.7**	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2
Carbon Tetrachloride	ug/l	**6.8**	**2.3**	**6.2**	**9.7**	**7.3**	**7.3**	**5.0**	**7.6**	**9.7**	**12**	**14**	< 1	**10**	**9.9**	**8.5**	**6.9**	**9**	**8.8**	**7.4**	**7.3**
Chlorobenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	**4.6**	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1
Chloroform	ug/l	**2.5**	**1.6**	**3.1**	**4.1**	**3.1**	**3.9**	**4.1**	**3.5**	**4.0**	**4.9**	**5.6**	< 2	**4.3**	**4.2**	**4.6**	**4.7**	**5.2**	**5.4**	**5.7**	**7.5**
Chloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/l	< 5	< 5	< 2	< 2	< 1	< 1	< 1	< 1	<1	< 1	< 1	--	--	< 1	--	--	< 1	< 1	< 2	< 2
Styrene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/l	< 1	**1.2**	**9.7**	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.59 J**	< 1
Toluene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/l	**26**	**13**	**37**	**30**	**25**	**29**	**22**	**24**	**25**	**27**	**27**	**24**	**24**	**21**	**21**	**15**	**20**	**19**	**15.6**	**19.7**
Vinyl Chloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1
Xylenes, Total	ug/l	< 2	< 2	< 2	< 2	< 3	< 3	< 3	< 3	<3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 1
1,4-Dioxane	ug/l	--	--	--	--	< 200	< 200	< 200	< 200	<200	< 200	< 200	**2.7**	**2.9**	**2.9**	**8.5**	**6.3**	**2.1**	**14**	< 150	< 150
Total VOCs	ug/l	**48**	**23**	**78**	**63**	**48**	**54**	**40**	**48**	**54**	**60**	**62**	**57**	**57**	**55**	**58**	**45**	**53**	**62**	**42**	**77**

APPENDIX C

OW-17 (CDS)

Historical VOC Concentrations

Parameter	Unit	Mar-19	Mar-20
1,1,1-Trichloroethane	ug/l	< 1.0	<0.061
1,1,2,2-Tetrachloroethane	ug/l	< 1.0	<0.036
1,1,2-Trichloroethane	ug/l	< 1.0	<0.066
1,1-Dichloroethane	ug/l	**1.1**	**1.3**
1,1-Dichloroethene	ug/l	**17.2**	**19**
1,2-Dichloroethane	ug/l	< 1.0	<0.066
1,2-Dichloroethene, Total	ug/l	< 1.0	<0.056
1,2-Dichloropropane	ug/l	< 1.0	<0.11
2-Butanone	ug/l	< 5.0	<0.24
2-Hexanone	ug/l	< 5.0	<0.065
4-Methyl-2-pentanone	ug/l	< 5.0	<0.078
Acetone	ug/l	< 25	<0.31
Benzene	ug/l	< 1.0	<0.048
Bromodichloromethane	ug/l	< 1.0	<0.062
Bromoform	ug/l	< 1.0	<0.040
Bromomethane	ug/l	< 5.0	<0.18
Carbon Disulfide	ug/l	< 2.0	<0.075
Carbon Tetrachloride	ug/l	**9.3**	**9.0**
Chlorobenzene	ug/l	< 1.0	<0.062
Chloroethane	ug/l	< 1.0	<0.22
Chloroform	ug/l	**5.7**	**8.6**
Chloromethane	ug/l	< 1.0	<0.079
cis-1,3-Dichloropropene	ug/l	< 1.0	<0.079
Dibromochloromethane	ug/l	< 1.0	<0.081
Ethylbenzene	ug/l	< 1.0	<0.061
Methylene Chloride	ug/l	< 2.0	<0.083
Styrene	ug/l	< 1.0	<0.047
Tetrachloroethene	ug/l	< 1.0	**0.52**
Toluene	ug/l	< 1.0	<0.044
trans-1,3-Dichloropropene	ug/l	< 1.0	<0.070
Trichloroethene	ug/l	**18.1**	**20**
Vinyl Chloride	ug/l	< 1.0	<0.097
Xylenes, Total	ug/l	< 1.0	<0.15
1,4-Dioxane	ug/l	< 150	**3.9**
Total VOCs	ug/l	**51**	**62**

APPENDIX C

OW-21 (CDS)

Historical VOC Concentrations

Parameter	Unit	Jun-99	Dec-99	Jun-00	Dec-00	Jun-01	Dec-01	Jul-02	Dec-02	Jun-03	Dec-03	Jun-04	Dec-04	Jun-05	Dec-05	Jun-06	Dec-06	Jun-07
1,1,1-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**1.2**	< 1	**1.8**	< 1	< 1	**1.8**	< 1	**1.6**
1,2-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene, Total	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloropropane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Benzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2
Carbon Tetrachloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**1.1**	< 1	**1.6**	< 1	< 1	**1.8**	**1.5**	**1.1**
Vinyl Chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylenes, Total	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/l	0	0	0	0	0	0	0	0	0	**2.3**	0	**3.4**	0	0	**3.6**	**1.5**	**2.7**

APPENDIX C

OW-21 (CDS)

Historical VOC Concentrations

Parameter	Unit	Dec-07	Jun-08	Dec-08	Jun-09	Dec-09	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17	Mar-19
1,1,1-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
1,1,2-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
1,1-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
1,1-Dichloroethene	ug/l	**2**	**2.3**	**27**	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
1,2-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
1,2-Dichloroethene, Total	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1.0
1,2-Dichloropropane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
2-Butanone	ug/l	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0
2-Hexanone	ug/l	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0
4-Methyl-2-pentanone	ug/l	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 2	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0
Acetone	ug/l	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 1	< 2	**2.2**	< 2	**3.2**	< 2	< 2	< 25	< 25
Benzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Bromodichloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Bromoform	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Bromomethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5.0
Carbon Disulfide	ug/l	< 2	< 2	< 5	< 5	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2.0
Carbon Tetrachloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Chlorobenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Chloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1.0
Chloroform	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Chloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1.0
cis-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Dibromochloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Methylene Chloride	ug/l	< 5	< 5	< 2	< 2	< 1	< 1	< 1	< 1	<1	< 1	< 1	--	--	< 1	--	--	< 1	< 1	< 2	< 2.0
Styrene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Tetrachloroethene	ug/l	< 1	< 1	**1.8**	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Toluene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
trans-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Trichloroethene	ug/l	**1.6**	**3.2**	**18**	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
Vinyl Chloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1.0
Xylenes, Total	ug/l	< 2	< 2	< 2	< 2	< 3	< 3	< 3	< 3	<3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 1.0
1,4-Dioxane	ug/l	--	--	--	--	< 200	< 200	< 200	< 200	<200	< 200	< 200	<1.2	<1.2	< 5	<1.2	< 5	< 5	< 1.2	< 150	< 150
Total VOCs	ug/l	**3.6**	**5.5**	**46.8**	0	0	0	0	0	0	0	0	0	0	**2.2**	0	**3.2**	0	0	0	0

APPENDIX C

South Creek Downstream (CDS)

Historical VOC Concentrations

Parameter	Unit	Jun-99	Dec-99	Jun-00	Dec-00	Jun-01	Dec-01	Dec-02	Jun-03	Dec-03	Jun-04	Dec-04	Jun-05	Dec-05	Jun-06	Jun-07
1,1,1-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**1.2**	< 1	**1.0**	< 1	< 1	< 1	**1.2**
1,1-Dichloroethene	ug/l	< 5	< 5	**5.3**	< 5	< 5	< 5	< 5	< 5	**4.3**	< 1	**3.5**	**1.0**	**1.9**	**1.9**	**3.9**
1,2-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene, Total	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloropropane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Benzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 2	< 2
Carbon Tetrachloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	**1.2**	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**1.0**	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylenes, Total	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/l	0	0	**5.3**	0	0	0	0	0	**6.5**	0	**5.7**	**1.0**	**1.9**	**1.9**	**5.1**

APPENDIX C

South Creek Downstream (CDS)

Historical VOC Concentrations

Parameter	Dec-07	Jun-08	Dec-08	Jun-09	Dec-09	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17	Sep-17	Mar-18
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	**1**	< 1	**1.4**	< 1	< 1	< 1	< 1	< 1	**1.60**	**3.1**	**1.4**
1,1-Dichloroethene	**1.2**	< 1	**1.9**	**2.0**	**1.4**	**1.4**	**1.9**	**1.6**	**1.4**	**2.2**	**3.1**	< 1	**4.0**	**1.8**	< 1	**1.5**	**1.1**	**2.0**	**4.3**	**8.6**	**3.6**
1,2-Dichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.26 J**
1,2-Dichloroethene, Total	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	**0.31J**	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Hexanone	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 2	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acetone	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 1	< 2	**3.5**	**2.1**	< 2	**3.0**	< 2	< 25	< 25	< 25
Benzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 5
Carbon Disulfide	< 2	< 2	< 5	< 5	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2
Carbon Tetrachloride	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1
Chloroform	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1
cis-1,3-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	< 5	< 5	< 2	< 2	< 1	< 1	< 1	< 1	<1	< 1	< 1	--	--	< 1	--	--	< 1	< 1	< 2	< 2	< 2
Styrene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	**0.82 J**	**1.5**	**0.78 J**
Vinyl Chloride	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1
Xylenes, Total	< 2	< 2	< 2	< 2	< 3	< 3	< 3	< 3	<3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 1	< 1
1,4-Dioxane	--	--	--	--	< 200	< 200	< 200	< 200	<200	< 200	< 200	<1.2	**2.4**	**3.0**	<1.2	**2.6**	**11**	< 1.2	< 150	< 150	< 150
Total VOCs	**1.2**	0	**1.9**	**2**	**1.4**	**1.4**	**1.9**	**1.6**	**1.4**	**2.2**	**4.1**	0	**7.8**	**8.3**	**2.1**	**4.1**	**15.1**	**2.0**	**6.7**	**13.5**	**6.0**

APPENDIX C
South Creek Downstream (CDS)
Historical VOC Concentrations

Parameter	Sep-18	Mar-19	Sep-19	Mar-20
1,1,1-Trichloroethane	< 1	< 1.0	< 1.0	<0.061
1,1,2,2-Tetrachloroethane	< 1	< 1.0	< 1.0	<0.036
1,1,2-Trichloroethane	< 1	< 1.0	< 1.0	<0.066
1,1-Dichloroethane	**0.59 J**	**1.0**	**0.41 J**	**0.67**
1,1-Dichloroethene	**1.4**	**2.2**	**0.70 J**	**1.4**
1,2-Dichloroethane	< 1	< 1.0	< 1.0	<0.066
1,2-Dichloroethene, Total	< 1	< 1.0	< 1.0	<0.094
1,2-Dichloropropane	< 1	< 1.0	< 1.0	<0.11
2-Butanone	< 5	< 5.0	< 5.0	<0.24
2-Hexanone	< 5	< 5.0	< 5.0	<0.065
4-Methyl-2-pentanone	< 5	< 5.0	< 5.0	<0.078
Acetone	< 25	< 25	< 25	<0.31
Benzene	< 1	< 1.0	< 1.0	<0.048
Bromodichloromethane	< 1	< 1.0	< 1.0	<0.062
Bromoform	< 1	< 1.0	< 1.0	<0.040
Bromomethane	< 5	< 5.0	< 5.0	<0.18
Carbon Disulfide	< 2	< 2.0	< 2.0	<0.075
Carbon Tetrachloride	< 1	< 1.0	< 1.0	<0.11
Chlorobenzene	< 1	< 1.0	< 1.0	<0.062
Chloroethane	< 1	< 1.0	< 1.0	<0.22
Chloroform	< 1	< 1.0	< 1.0	<0.076
Chloromethane	< 1	< 1.0	< 1.0	<0.079
cis-1,3-Dichloropropene	< 1	< 1.0	< 1.0	<0.079
Dibromochloromethane	< 1	< 1.0	< 1.0	<0.081
Ethylbenzene	< 1	< 1.0	< 1.0	<0.061
Methylene Chloride	< 2	< 2.0	< 2.0	<0.083
Styrene	< 1	< 1.0	< 1.0	<0.047
Tetrachloroethene	< 1	< 1.0	< 1.0	<0.098
Toluene	< 1	< 1.0	< 1.0	<0.044
trans-1,3-Dichloropropene	< 1	< 1.0	< 1.0	<0.070
Trichloroethene	< 1	< 1.0	< 1.0	**0.39 J**
Vinyl Chloride	< 1	< 1.0	< 1.0	<0.097
Xylenes, Total	< 1	< 1.0	< 1.0	<0.15
1,4-Dioxane	< 150	< 150	< 150	**2.6**
Total VOCs	**2.0**	**3.2**	**1.1**	**5.1**

APPENDIX C

South Creek Upstream (CDS)

Historical VOC Concentrations

Parameter	Unit	Jun-99	Dec-99	Dec-00	Jun-01	Dec-01	Jul-02	Dec-02	Jun-03	Dec-03	Jun-04	Dec-04	Jun-05	Dec-05	Jun-06	Dec-06	Dec-06	Jun-07
1,1,1-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	**2.6**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene, Total	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloropropane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Benzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2
Carbon Tetrachloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylenes, Total	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/l	0	0	0	0	0	0	0	0	0	**2.6**	0	0	0	0	0	0	0

APPENDIX C
South Creek Upstream (CDS)
Historical VOC Concentrations

Parameter	Unit	Dec-07	Jun-08	Dec-08	Jun-09	Dec-09	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12	Mar-13	Sep-13	Dec-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17	Sep-17	Mar-18	Sep-18
1,1,1-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	DRY	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	DRY	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	DRY	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	DRY	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	ug/l	< 1	**1.7**	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	DRY	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	DRY	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene, Total	ug/l	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	< 1	< 1	DRY	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 5	DRY	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	ug/l	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 5	DRY	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Hexanone	ug/l	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 5	DRY	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone	ug/l	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 2	DRY	< 2	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acetone	ug/l	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	<5	< 5	< 5	< 1	DRY	**3.3**	**3.8**	**5.6**	**2.1**	< 2	< 2	< 25	< 25	< 25	< 25
Benzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	DRY	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	DRY	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 2	DRY	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	DRY	< 1	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Carbon Disulfide	ug/l	< 2	< 2	< 5	< 5	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	DRY	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2
Carbon Tetrachloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	DRY	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 2	DRY	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	DRY	< 1	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
Chloroform	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 2	DRY	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	DRY	< 1	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	DRY	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	DRY	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	DRY	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/l	< 5	< 5	< 2	< 2	< 1	< 1	< 1	< 1	<1	< 1	< 1	--	DRY	--	< 1	--	--	< 1	< 1	< 2	< 2	< 2	< 2
Styrene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	DRY	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	DRY	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	DRY	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	DRY	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	DRY	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 2	DRY	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
Xylenes, Total	ug/l	< 2	< 2	< 2	< 2	< 3	< 3	< 3	< 3	<3	< 3	< 3	< 3	DRY	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 1	< 1	< 1
1,4-Dioxane	ug/l	--	--	--	--	< 200	< 200	< 200	< 200	<200	< 200	< 200	**2.9**	DRY	<1.2	< 5	<1.2	**3.5**	**3.6**	< 1.2	< 150	< 150	< 150	< 150
Total VOCs	ug/l	0	**1.7**	0	0	0	0	0	0	0	0	0	**2.9**	**0**	**3.3**	**3.8**	**5.6**	**5.6**	**3.6**	**0**	**0**	**0**	**0**	**0**

APPENDIX C

South Creek Upstream (CDS)

Historical VOC Concentrations

Parameter	Unit	Mar-19	Sep-19	Mar-20
1,1,1-Trichloroethane	ug/l	< 1.0	< 1.0	<0.061
1,1,2,2-Tetrachloroethane	ug/l	< 1.0	< 1.0	<0.036
1,1,2-Trichloroethane	ug/l	< 1.0	< 1.0	<0.066
1,1-Dichloroethane	ug/l	< 1.0	< 1.0	<0.083
1,1-Dichloroethene	ug/l	< 1.0	< 1.0	**0.24 J**
1,2-Dichloroethane	ug/l	< 1.0	< 1.0	<0.066
1,2-Dichloroethene, Total	ug/l	< 1.0	< 1.0	<0.094
1,2-Dichloropropane	ug/l	< 1.0	< 1.0	<0.11
2-Butanone	ug/l	< 5.0	< 5.0	<0.24
2-Hexanone	ug/l	< 5.0	< 5.0	<0.065
4-Methyl-2-pentanone	ug/l	< 5.0	< 5.0	<0.078
Acetone	ug/l	< 25	< 25	<0.31
Benzene	ug/l	< 1.0	< 1.0	<0.048
Bromodichloromethane	ug/l	< 1.0	< 1.0	<0.062
Bromoform	ug/l	< 1.0	< 1.0	<0.040
Bromomethane	ug/l	< 5.0	< 5.0	<0.18
Carbon Disulfide	ug/l	< 2.0	< 2.0	<0.075
Carbon Tetrachloride	ug/l	< 1.0	< 1.0	<0.11
Chlorobenzene	ug/l	< 1.0	< 1.0	<0.062
Chloroethane	ug/l	< 1.0	< 1.0	<0.22
Chloroform	ug/l	< 1.0	< 1.0	<0.076
Chloromethane	ug/l	< 1.0	< 1.0	<0.079
cis-1,3-Dichloropropene	ug/l	< 1.0	< 1.0	<0.079
Dibromochloromethane	ug/l	< 1.0	< 1.0	<0.081
Ethylbenzene	ug/l	< 1.0	< 1.0	<0.061
Methylene Chloride	ug/l	< 2.0	< 2.0	<0.083
Styrene	ug/l	< 1.0	< 1.0	<0.047
Tetrachloroethene	ug/l	< 1.0	< 1.0	<0.098
Toluene	ug/l	< 1.0	< 1.0	<0.044
trans-1,3-Dichloropropene	ug/l	< 1.0	< 1.0	<0.070
Trichloroethene	ug/l	< 1.0	< 1.0	<0.078
Vinyl Chloride	ug/l	< 1.0	< 1.0	<0.097
Xylenes, Total	ug/l	< 1.0	< 1.0	<0.15
1,4-Dioxane	ug/l	< 150	< 150	<0.14
Total VOCs	ug/l	**0**	**0**	**0.24**

APPENDIX C

Duck Pond (Burn Pit)

Historical VOC Concentrations

Parameter	Unit	Mar-99	Jun-99	Dec-99	Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jul-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03
1,1,1-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1
1,1-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**16**	< 1
1,1-Dichloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**30**	< 1
1,2-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1
1,2-Dichloroethene, Total	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10	< 10	< 2
1,2-Dichloropropane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1
2-Butanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10
2-Hexanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10
4-Methyl-2-pentanone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 10
Acetone	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 25
Benzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1
Bromodichloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1
Bromomethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 1
Carbon Disulfide	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1
Carbon Tetrachloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1
Chlorobenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 1
Chloroform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1
Chloromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 1
cis-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1
Dibromochloromethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1
Ethylbenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1
Methylene Chloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1
Tetrachloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1
Toluene	ug/l	< 5	< 5	< 5	< 5	**5.3**	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1
trans-1,3-Dichloropropene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 1
Trichloroethene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**11**	< 1
Vinyl Chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 1
Xylenes, Total	ug/l	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/L	0	0	0	0	**5.3**	0	0	0	0	0	0	0	0	0	0	0	**57**	0

APPENDIX C
Duck Pond (Burn Pit)
Historical VOC Concentrations

Parameter	Unit	Dec-03	Mar-04	Jun-04	Sep-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08
1,1,1-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene, Total	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1
1,2-Dichloropropane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5
2-Hexanone	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5
4-Methyl-2-pentanone	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5
Acetone	ug/l	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 5	< 5
Benzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5
Carbon Tetrachloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/l	< 5	< 5	< 5	< 5	< 5	< 1	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 2
Styrene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.2**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.1 U**	< 1
trans-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylenes, Total	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,4-Dioxane	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total VOCs	ug/L	0	0	0	0	0	0	0	0	0	**1.2**	0	0	0	0	0	0	0	0	0	0	0

March 2020

APPENDIX C
Duck Pond (Burn Pit)
Historical VOC Concentrations

Parameter	Unit	Mar-09	Jun-09	Dec-09	Jun-10	Dec-10	Jun-11	Dec-11	Mar-12	Sep-12	Mar-13	Sep-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16	Apr-17	Mar-18	Sep-18	Mar-19	Sep-19	Mar-20
1,1,1-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	<0.061
1,1,2,2-Tetrachloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	<0.036
1,1,2-Trichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	<0.066
1,1-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	<0.083
1,1-Dichloroethene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	**0.27 J**
1,2-Dichloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	<0.066
1,2-Dichloroethene, Total	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	<0.094
1,2-Dichloropropane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	<0.11
2-Butanone	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	<0.24
2-Hexanone	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	<0.065
4-Methyl-2-pentanone	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	<0.078
Acetone	ug/l	< 5	< 5	< 5	< 5	< 5	**8.0**	<5	< 5	< 5	< 2	**6.5**	**4.3**	**4.4**	< 2	**3.2**	< 2	< 25	< 25	< 25	< 25	< 25	<0.31
Benzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	<0.048
Bromodichloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	<0.062
Bromoform	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	<0.040
Bromomethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5.0	< 5.0	<0.18
Carbon Disulfide	ug/l	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2.0	< 2.0	<0.075
Carbon Tetrachloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	<0.11
Chlorobenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	<0.062
Chloroethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1.0	< 1.0	<0.22
Chloroform	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	<0.076
Chloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	**0.12 J**	< 1	< 1	< 1.0	< 1.0	<0.079
cis-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	<0.079
Dibromochloromethane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	<0.081
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	<0.061
Methylene Chloride	ug/l	< 2	**2.6**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	< 1	--	--	< 2	< 1	< 2	< 2	< 2	< 2.0	< 2.0	<0.083
Styrene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	<0.047
Tetrachloroethene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	<0.098
Toluene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	<0.044
trans-1,3-Dichloropropene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	<0.070
Trichloroethene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	**0.21 J**
Vinyl Chloride	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1.0	< 1.0	<0.097
Xylenes, Total	ug/l	< 2	< 2	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 1	< 1	< 1.0	< 1.0	<0.15
1,4-Dioxane	ug/l	--	--	< 200	< 200	< 200	< 200	< 200	< 200	< 200	<1.2	**1.3**	**1.5**	< 5	< 5	< 5	< 5	< 150	< 150	< 150	< 150	< 150	**1.3 J**
Total VOCs	ug/L	0	**2.6**	0	0	0	**8.0**	0	0	0	0	**7.8**	**5.8**	**4.4**	0	**3.2**	0	**0.12**	**0.00**	**0.00**	**0.00**	**0.00**	**1.78**

APPENDIX C

CDS Downstream (CDS)

Historical VOC Concentrations

Parameter	Unit	Mar-19	Sep-19	Mar-20
1,1,1-Trichloroethane	ug/l	< 1.0	< 1.0	<0.061
1,1,2,2-Tetrachloroethane	ug/l	< 1.0	< 1.0	<0.036
1,1,2-Trichloroethane	ug/l	< 1.0	< 1.0	<0.066
1,1-Dichloroethane	ug/l	< 1.0	< 1.0	<0.083
1,1-Dichloroethene	ug/l	< 1.0	**0.69 J**	**0.39 J**
1,2-Dichloroethane	ug/l	< 1.0	< 1.0	<0.066
1,2-Dichloroethene, Total	ug/l	< 1.0	< 1.0	<0.094
1,2-Dichloropropane	ug/l	< 1.0	< 1.0	<0.11
2-Butanone	ug/l	< 5.0	< 5.0	<0.24
2-Hexanone	ug/l	< 5.0	< 5.0	<0.065
4-Methyl-2-pentanone	ug/l	< 5.0	< 5.0	<0.078
Acetone	ug/l	< 25	< 25	<0.31
Benzene	ug/l	< 1.0	< 1.0	<0.048
Bromodichloromethane	ug/l	< 1.0	< 1.0	<0.062
Bromoform	ug/l	< 1.0	< 1.0	<0.040
Bromomethane	ug/l	< 5.0	< 5.0	<0.18
Carbon Disulfide	ug/l	< 2.0	< 2.0	<0.075
Carbon Tetrachloride	ug/l	< 1.0	< 1.0	<0.11
Chlorobenzene	ug/l	< 1.0	< 1.0	<0.062
Chloroethane	ug/l	< 1.0	< 1.0	<0.22
Chloroform	ug/l	< 1.0	< 1.0	**0.28 J**
Chloromethane	ug/l	< 1.0	< 1.0	<0.079
cis-1,3-Dichloropropene	ug/l	< 1.0	< 1.0	<0.079
Dibromochloromethane	ug/l	< 1.0	< 1.0	<0.081
Ethylbenzene	ug/l	< 1.0	< 1.0	<0.061
Methylene Chloride	ug/l	< 2.0	< 2.0	<0.083
Styrene	ug/l	< 1.0	< 1.0	<0.047
Tetrachloroethene	ug/l	< 1.0	< 1.0	<0.098
Toluene	ug/l	< 1.0	< 1.0	<0.044
trans-1,3-Dichloropropene	ug/l	< 1.0	< 1.0	<0.070
Trichloroethene	ug/l	< 1.0	**0.73 J**	**0.60**
Vinyl Chloride	ug/l	< 1.0	< 1.0	<0.097
Xylenes, Total	ug/l	< 1.0	< 1.0	<0.15
1,4-Dioxane	ug/l	< 150	< 150	<0.14
Total VOCs	ug/l	**0**	**1.42**	**1.27**

APPENDIX C

CDS Upstream (CDS)

Historical VOC Concentrations

Parameter	Unit	Mar-19	Sep-19	Mar-20
1,1,1-Trichloroethane	ug/l	< 1.0	< 1.0	<0.061
1,1,2,2-Tetrachloroethane	ug/l	< 1.0	< 1.0	<0.036
1,1,2-Trichloroethane	ug/l	< 1.0	< 1.0	<0.066
1,1-Dichloroethane	ug/l	< 1.0	< 1.0	<0.083
1,1-Dichloroethene	ug/l	< 1.0	< 1.0	**0.36 J**
1,2-Dichloroethane	ug/l	< 1.0	< 1.0	<0.066
1,2-Dichloroethene, Total	ug/l	< 1.0	< 1.0	<0.094
1,2-Dichloropropane	ug/l	< 1.0	< 1.0	<0.11
2-Butanone	ug/l	< 5.0	< 5.0	<0.24
2-Hexanone	ug/l	< 5.0	< 5.0	<0.065
4-Methyl-2-pentanone	ug/l	< 5.0	< 5.0	<0.078
Acetone	ug/l	< 25	< 25	<0.31
Benzene	ug/l	< 1.0	< 1.0	<0.048
Bromodichloromethane	ug/l	< 1.0	< 1.0	<0.062
Bromoform	ug/l	< 1.0	< 1.0	<0.040
Bromomethane	ug/l	< 5.0	< 5.0	<0.18
Carbon Disulfide	ug/l	< 2.0	< 2.0	<0.075
Carbon Tetrachloride	ug/l	< 1.0	< 1.0	<0.11
Chlorobenzene	ug/l	< 1.0	< 1.0	<0.062
Chloroethane	ug/l	< 1.0	< 1.0	<0.22
Chloroform	ug/l	< 1.0	< 1.0	**0.23 J**
Chloromethane	ug/l	< 1.0	< 1.0	<0.079
cis-1,3-Dichloropropene	ug/l	< 1.0	< 1.0	<0.079
Dibromochloromethane	ug/l	< 1.0	< 1.0	<0.081
Ethylbenzene	ug/l	< 1.0	< 1.0	<0.061
Methylene Chloride	ug/l	< 2.0	< 2.0	<0.083
Styrene	ug/l	< 1.0	< 1.0	<0.047
Tetrachloroethene	ug/l	< 1.0	< 1.0	<0.098
Toluene	ug/l	< 1.0	< 1.0	<0.044
trans-1,3-Dichloropropene	ug/l	< 1.0	< 1.0	<0.070
Trichloroethene	ug/l	< 1.0	< 1.0	**0.59**
Vinyl Chloride	ug/l	< 1.0	< 1.0	<0.097
Xylenes, Total	ug/l	< 1.0	< 1.0	<0.15
1,4-Dioxane	ug/l	< 150	< 150	<0.14
Total VOCs	ug/l	**0**	**0**	**1.18**

APPENDIX C

OW-38

Historical VOC Concentrations

Parameter	Unit	Mar-19	Sep-19	Mar-20
1,1,1-Trichloroethane	ug/l	< 1.0	< 1.0	<0.061
1,1,2,2-Tetrachloroethane	ug/l	< 1.0	< 1.0	<0.036
1,1,2-Trichloroethane	ug/l	< 1.0	< 1.0	<0.066
1,1-Dichloroethane	ug/l	**0.34 J**	< 1.0	**0.30 J**
1,1-Dichloroethene	ug/l	**0.85 J**	**0.77 J**	**0.72**
1,2-Dichloroethane	ug/l	< 1.0	< 1.0	<0.066
1,2-Dichloroethene, Total	ug/l	< 1.0	< 1.0	<0.056
1,2-Dichloropropane	ug/l	< 1.0	< 1.0	<0.11
2-Butanone	ug/l	< 5.0	< 5.0	<0.24
2-Hexanone	ug/l	< 5.0	< 5.0	<0.065
4-Methyl-2-pentanone	ug/l	< 5.0	< 5.0	<0.078
Acetone	ug/l	< 25	< 25	<0.31
Benzene	ug/l	< 1.0	< 1.0	<0.048
Bromodichloromethane	ug/l	< 1.0	< 1.0	<0.062
Bromoform	ug/l	< 1.0	< 1.0	<0.040
Bromomethane	ug/l	< 5.0	< 5.0	<0.18
Carbon Disulfide	ug/l	< 2.0	< 2.0	<0.075
Carbon Tetrachloride	ug/l	**3.5**	**2.5**	**3.7**
Chlorobenzene	ug/l	< 1.0	< 1.0	<0.062
Chloroethane	ug/l	< 1.0	< 1.0	<0.22
Chloroform	ug/l	**4.9 J**	**6.0**	**7.5**
Chloromethane	ug/l	< 1.0	< 1.0	<0.079
cis-1,3-Dichloropropene	ug/l	< 1.0	< 1.0	<0.079
Dibromochloromethane	ug/l	< 1.0	< 1.0	<0.081
Ethylbenzene	ug/l	< 1.0	< 1.0	<0.061
Methylene Chloride	ug/l	< 2.0	< 2.0	<0.083
Styrene	ug/l	< 1.0	< 1.0	<0.047
Tetrachloroethene	ug/l	< 1.0	< 1.0	<0.098
Toluene	ug/l	< 1.0	< 1.0	<0.044
trans-1,3-Dichloropropene	ug/l	< 1.0	< 1.0	<0.070
Trichloroethene	ug/l	< 1.0	< 1.0	<0.078
Vinyl Chloride	ug/l	< 1.0	< 1.0	<0.097
Xylenes, Total	ug/l	< 1.0	< 1.0	<0.15
1,4-Dioxane	ug/l	< 150	< 150	<0.14
Total VOCs	ug/l	**10**	**9**	**12**

APPENDIX C

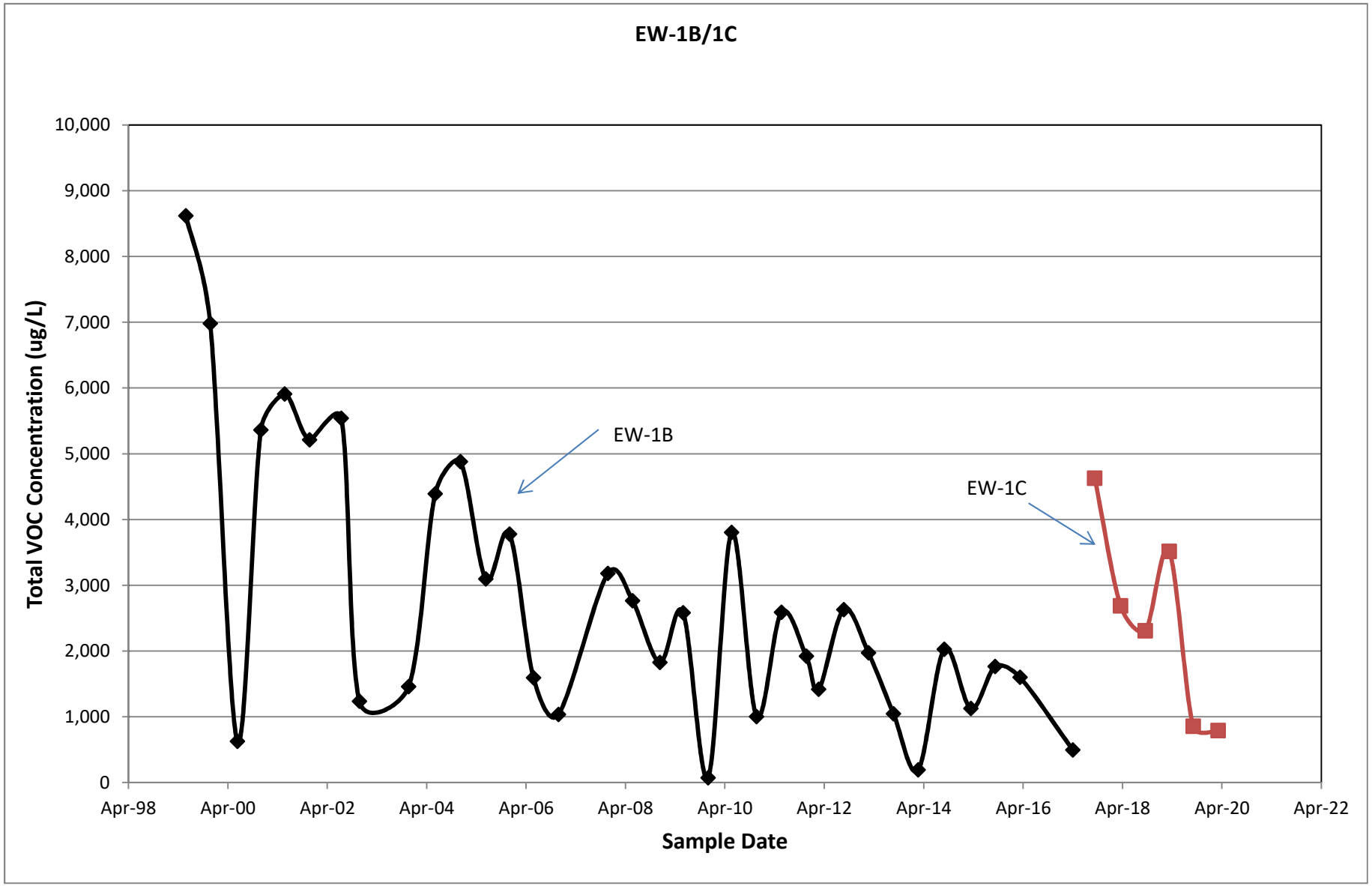
OW-39

Historical VOC Concentrations

Parameter	Unit	Mar-19	Sep-19	Mar-20
1,1,1-Trichloroethane	ug/l	< 1.0	< 1.0	<0.061
1,1,2,2-Tetrachloroethane	ug/l	< 1.0	< 1.0	<0.036
1,1,2-Trichloroethane	ug/l	< 1.0	< 1.0	<0.066
1,1-Dichloroethane	ug/l	< 1.0	< 1.0	<0.083
1,1-Dichloroethene	ug/l	**1.8**	**1.3**	**0.41 J**
1,2-Dichloroethane	ug/l	< 1.0	< 1.0	<0.066
1,2-Dichloroethene, Total	ug/l	< 1.0	< 1.0	<0.056
1,2-Dichloropropane	ug/l	< 1.0	< 1.0	<0.11
2-Butanone	ug/l	< 5.0	< 5.0	<0.24
2-Hexanone	ug/l	< 5.0	< 5.0	<0.065
4-Methyl-2-pentanone	ug/l	< 5.0	< 5.0	<0.078
Acetone	ug/l	< 25	< 25	<0.31
Benzene	ug/l	< 1.0	< 1.0	<0.048
Bromodichloromethane	ug/l	< 1.0	< 1.0	<0.062
Bromoform	ug/l	< 1.0	< 1.0	<0.040
Bromomethane	ug/l	< 5.0	< 5.0	<0.18
Carbon Disulfide	ug/l	< 2.0	< 2.0	<0.075
Carbon Tetrachloride	ug/l	< 1.0	< 1.0	<0.11
Chlorobenzene	ug/l	< 1.0	< 1.0	<0.062
Chloroethane	ug/l	< 1.0	< 1.0	<0.22
Chloroform	ug/l	< 1.0	< 1.0	<0.076
Chloromethane	ug/l	< 1.0	< 1.0	<0.079
cis-1,3-Dichloropropene	ug/l	< 1.0	< 1.0	<0.079
Dibromochloromethane	ug/l	< 1.0	< 1.0	<0.081
Ethylbenzene	ug/l	< 1.0	< 1.0	<0.061
Methylene Chloride	ug/l	< 2.0	< 2.0	<0.083
Styrene	ug/l	< 1.0	< 1.0	<0.047
Tetrachloroethene	ug/l	< 1.0	< 1.0	<0.098
Toluene	ug/l	< 1.0	< 1.0	<0.044
trans-1,3-Dichloropropene	ug/l	< 1.0	< 1.0	<0.070
Trichloroethene	ug/l	**1.1**	**0.76 J**	**0.37 J**
Vinyl Chloride	ug/l	< 1.0	< 1.0	<0.097
Xylenes, Total	ug/l	< 1.0	< 1.0	<0.15
1,4-Dioxane	ug/l	< 150	< 150	<0.14
Total VOCs	ug/l	**3**	**2**	**1**

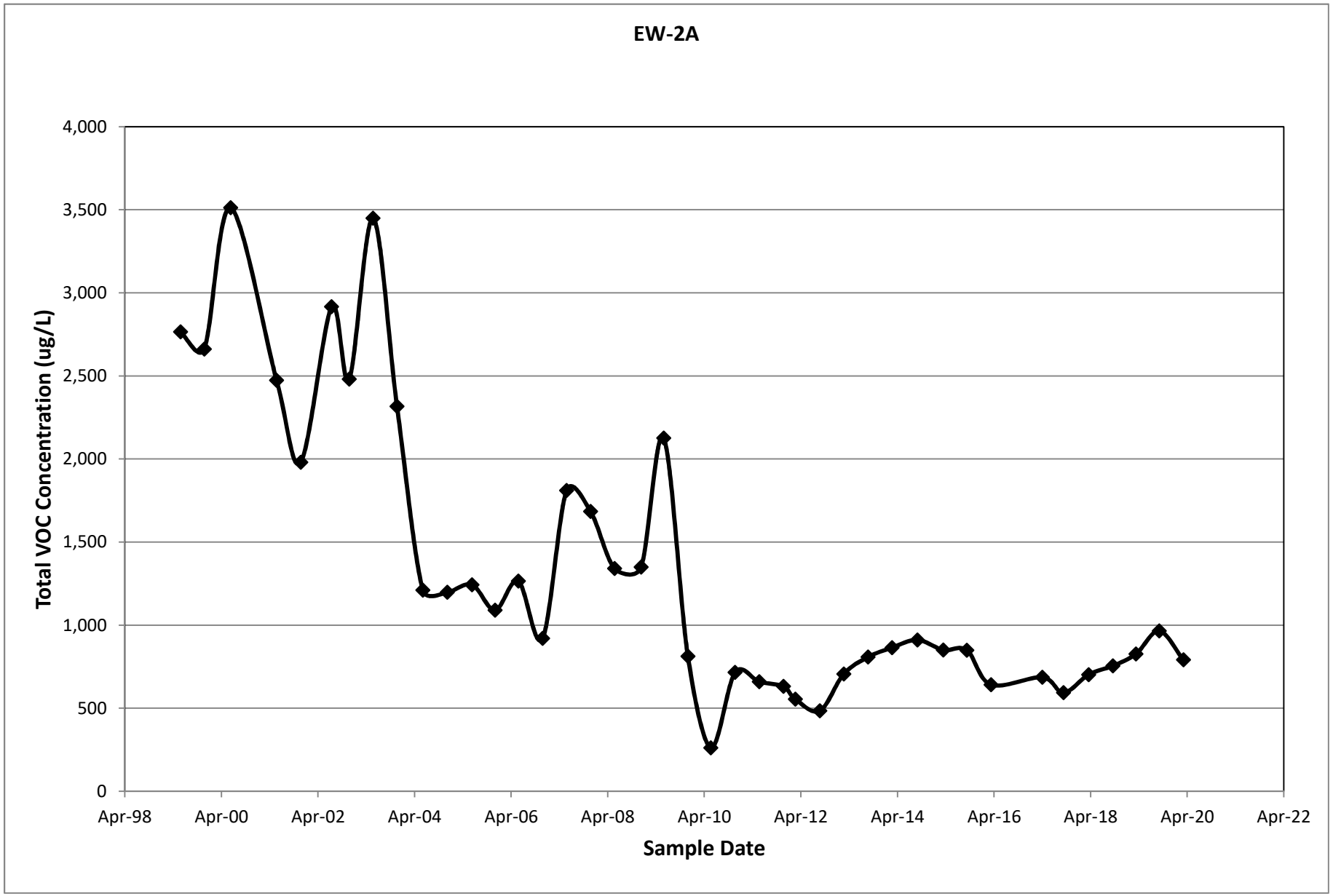
APPENDIX C

Construction Debris Site Total VOC Concentration Graphs



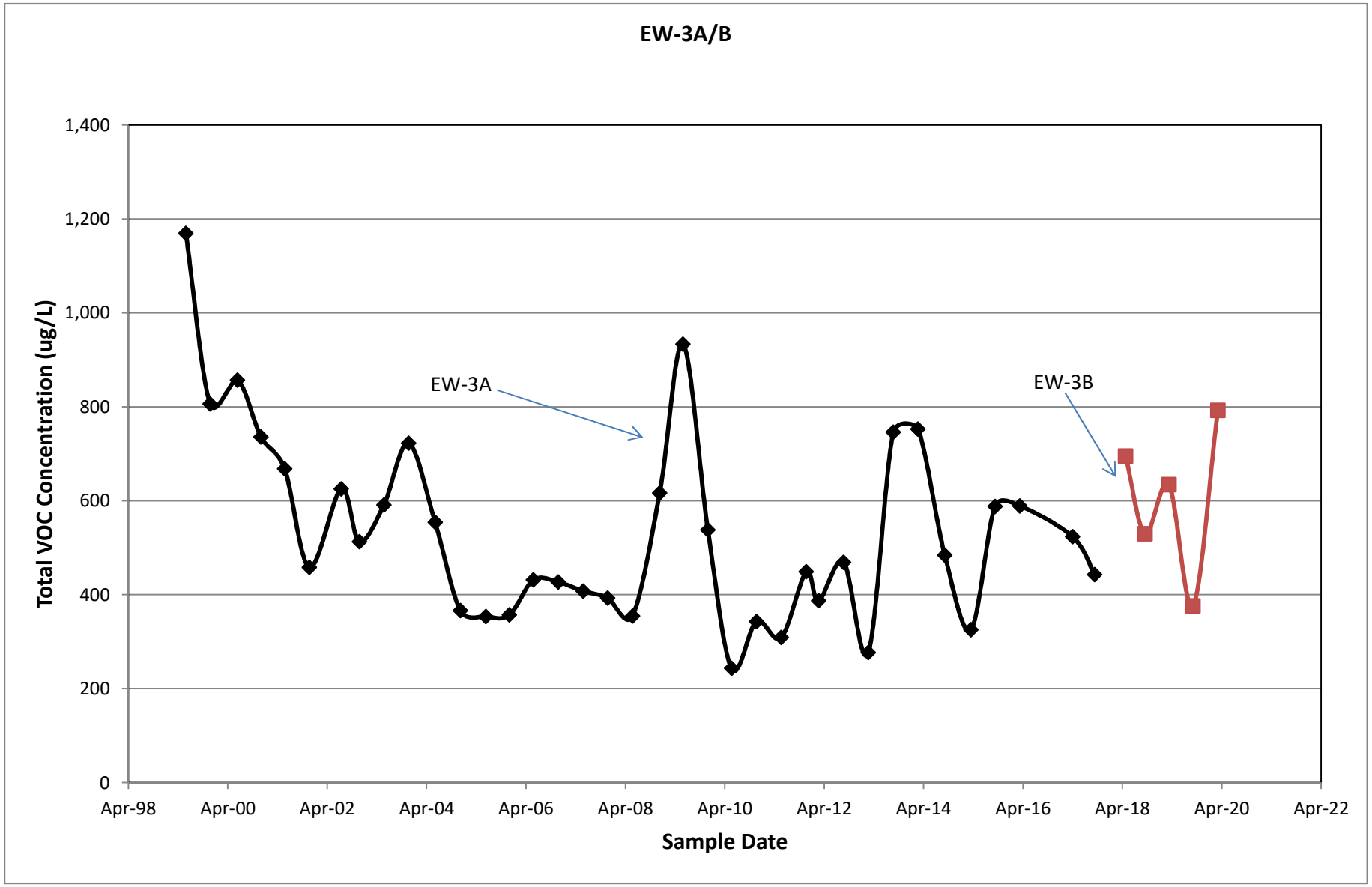
APPENDIX C

Construction Debris Site Total VOC Concentration Graphs



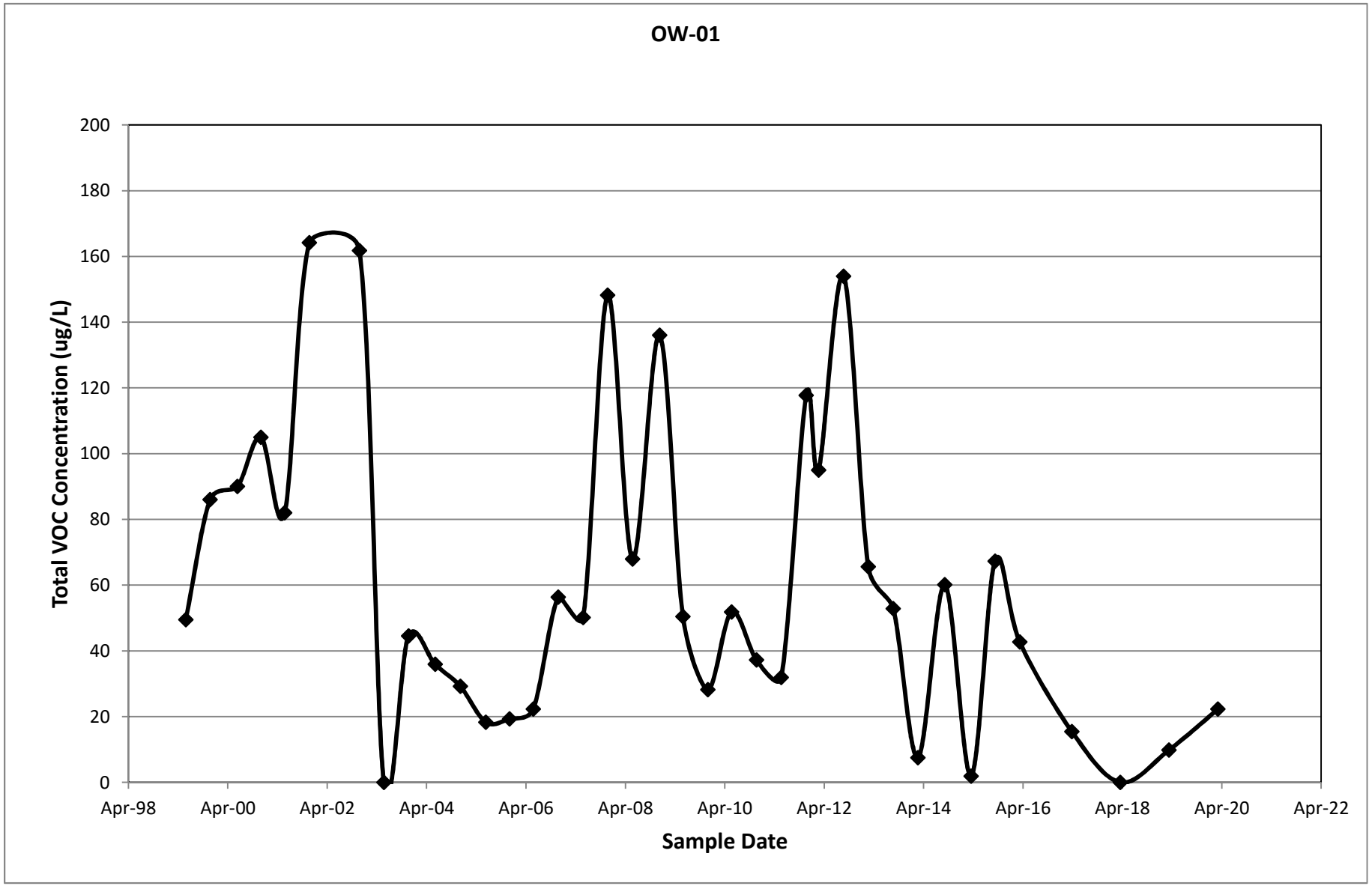
APPENDIX C

Construction Debris Site Total VOC Concentration Graphs



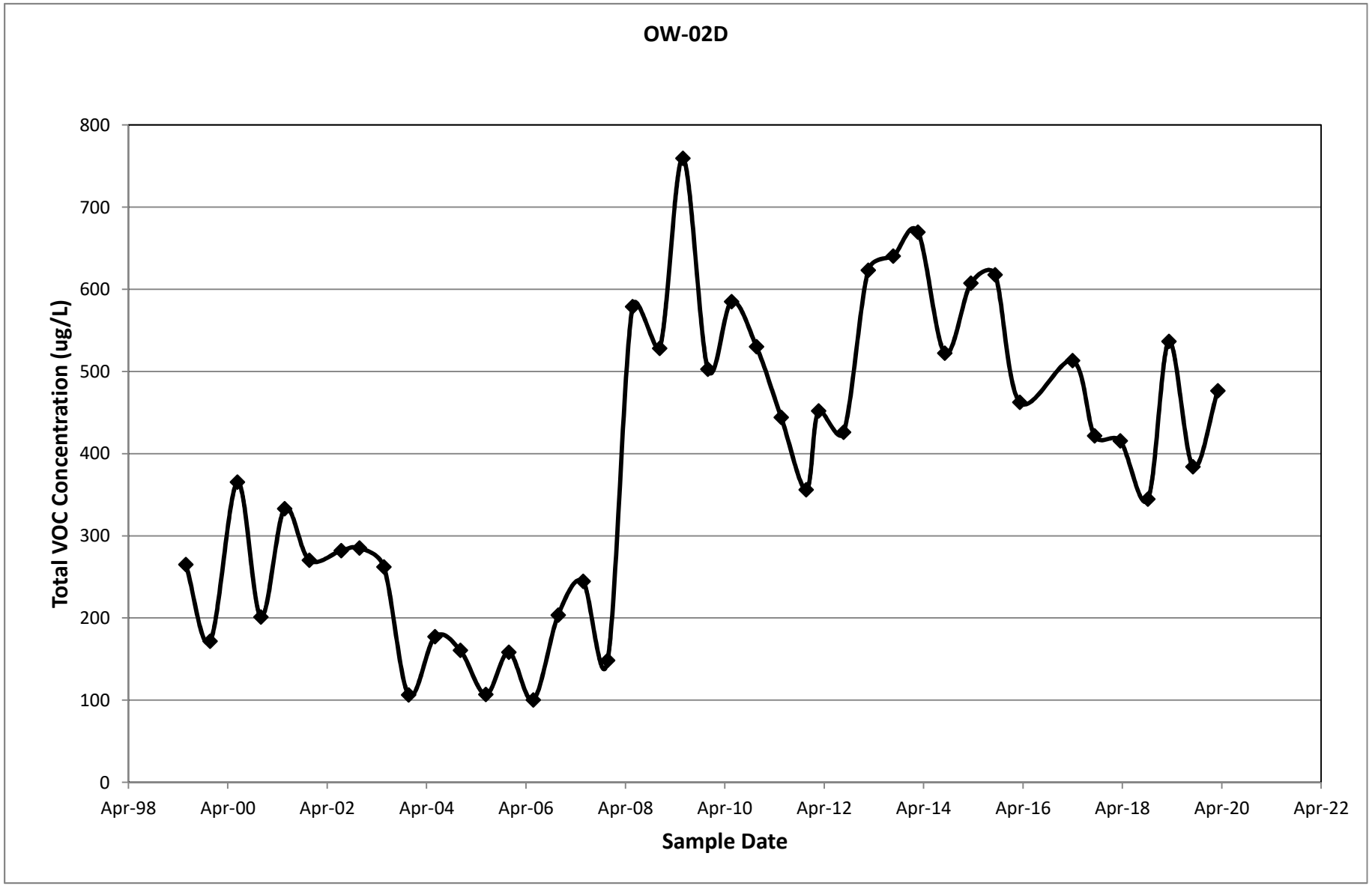
APPENDIX C

Construction Debris Site Total VOC Concentration Graphs



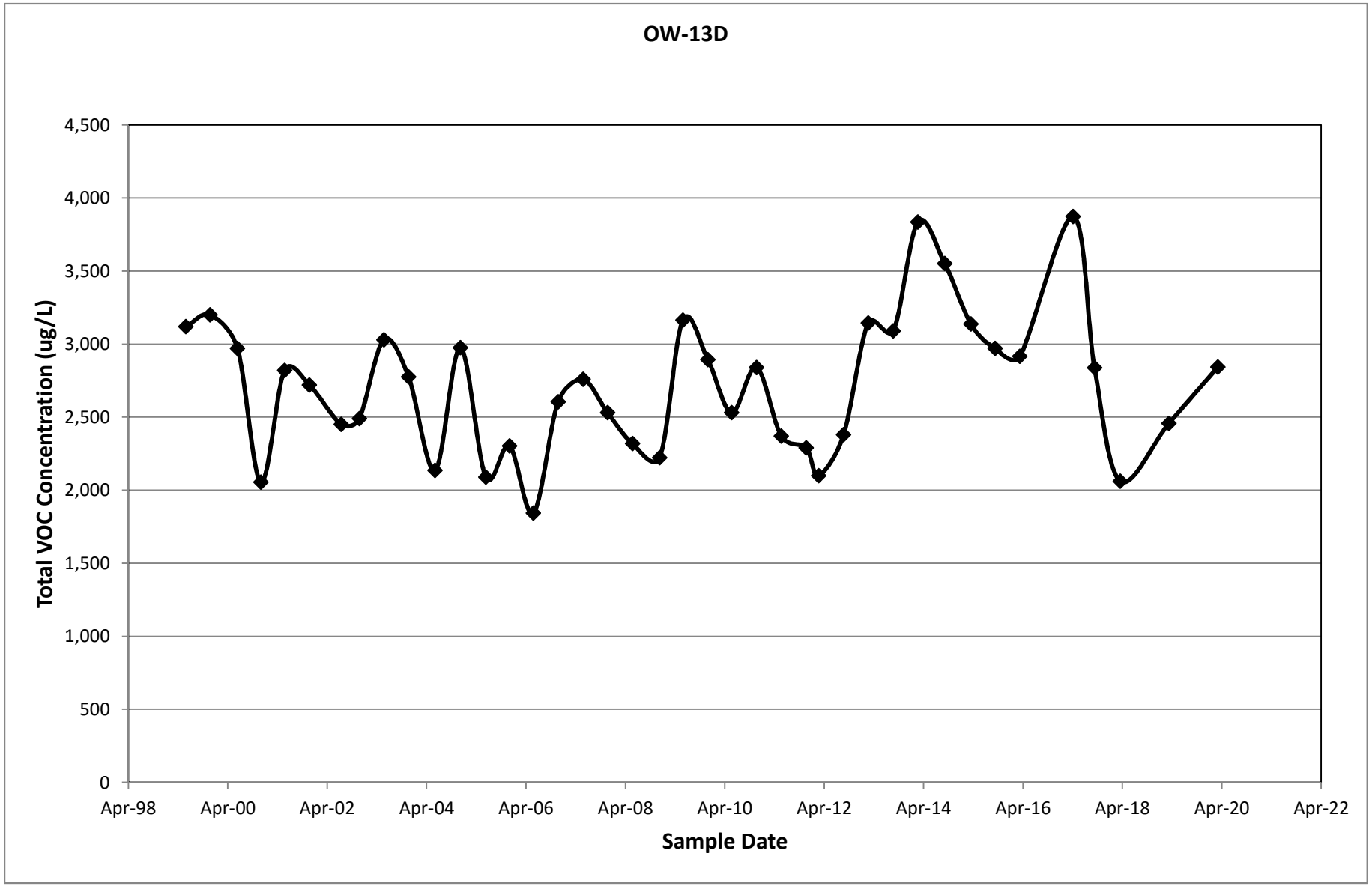
APPENDIX C

Construction Debris Site Total VOC Concentration Graphs



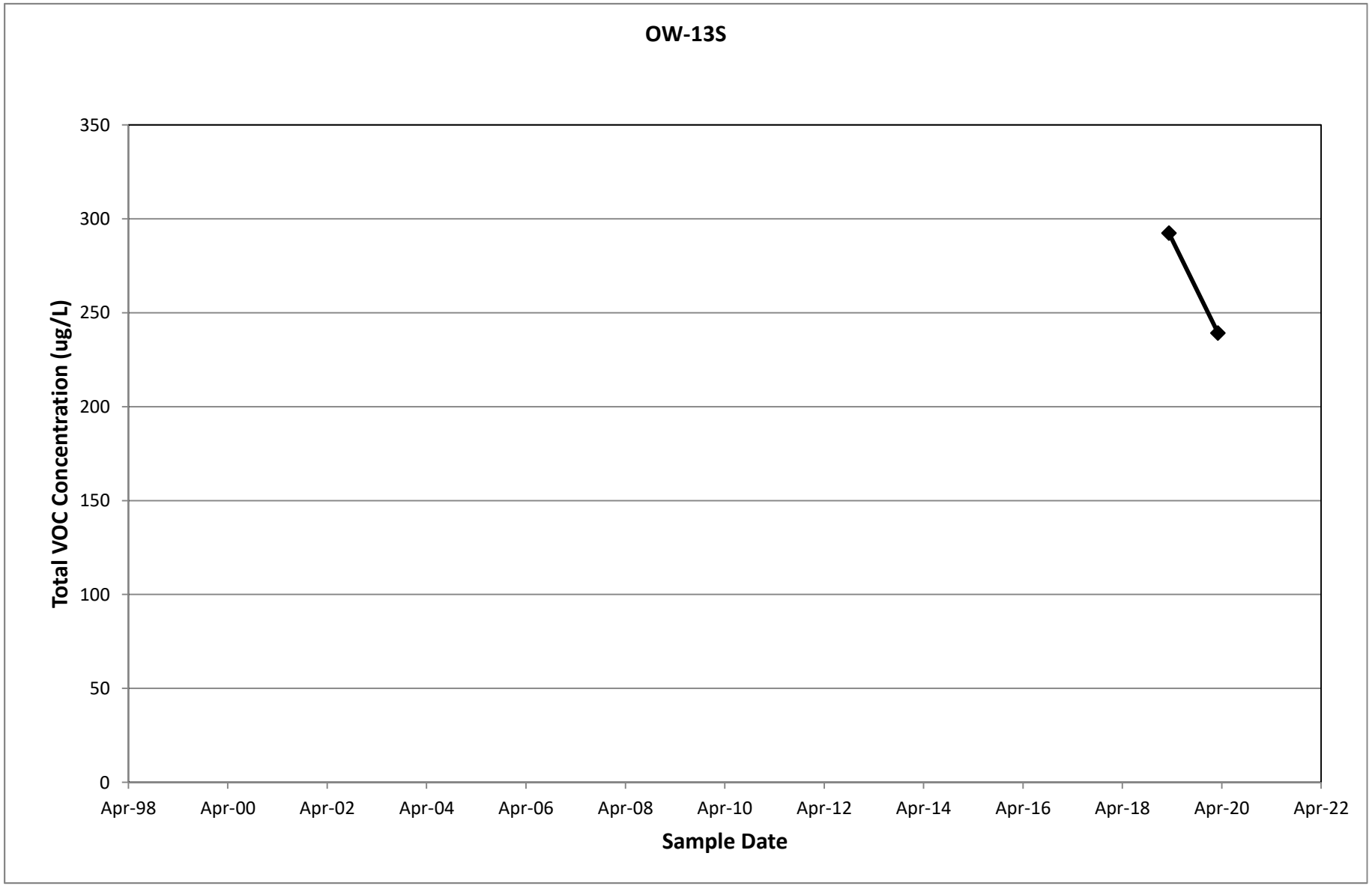
APPENDIX C

Construction Debris Site Total VOC Concentration Graphs



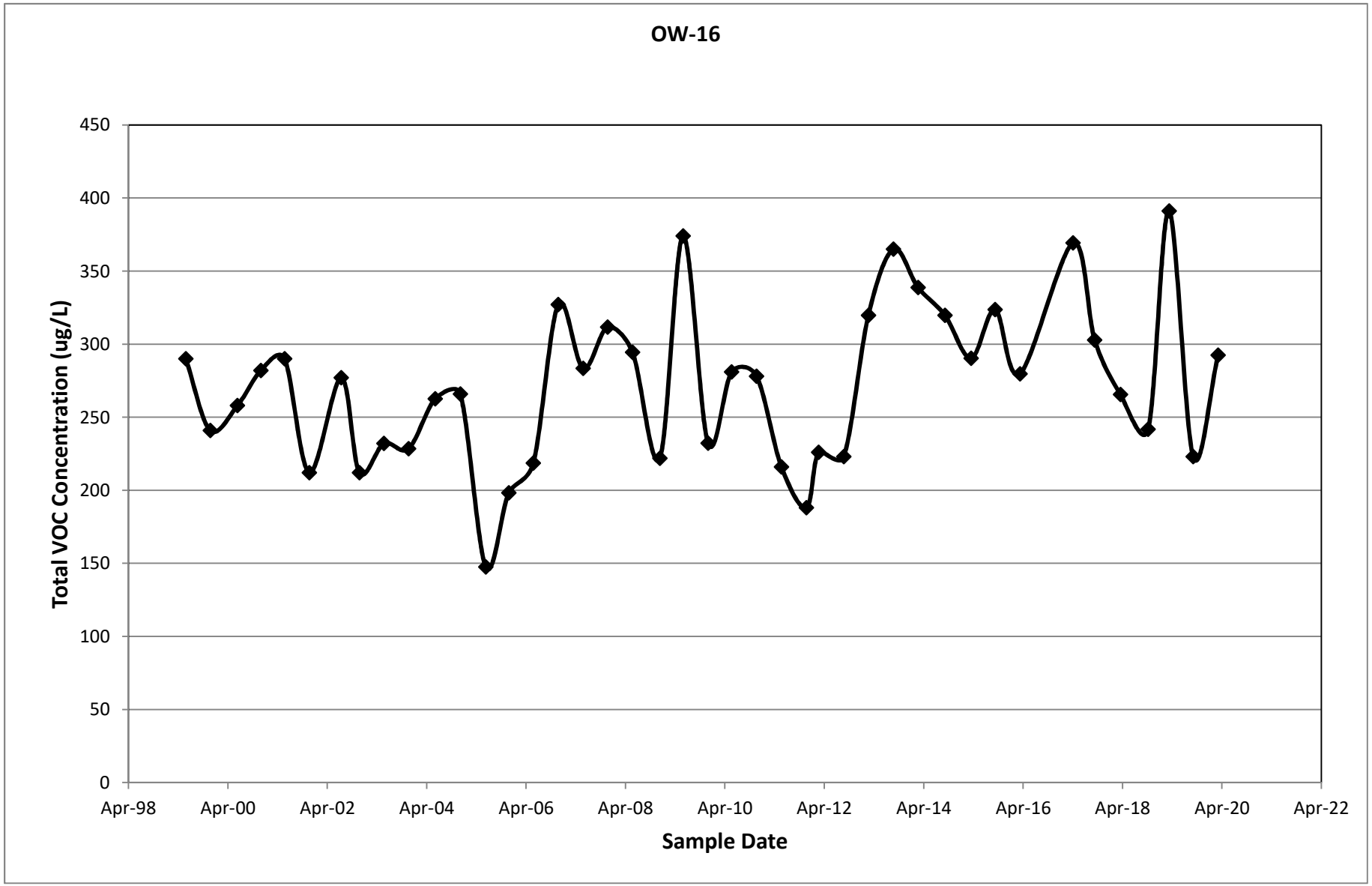
APPENDIX C

Construction Debris Site Total VOC Concentration Graphs



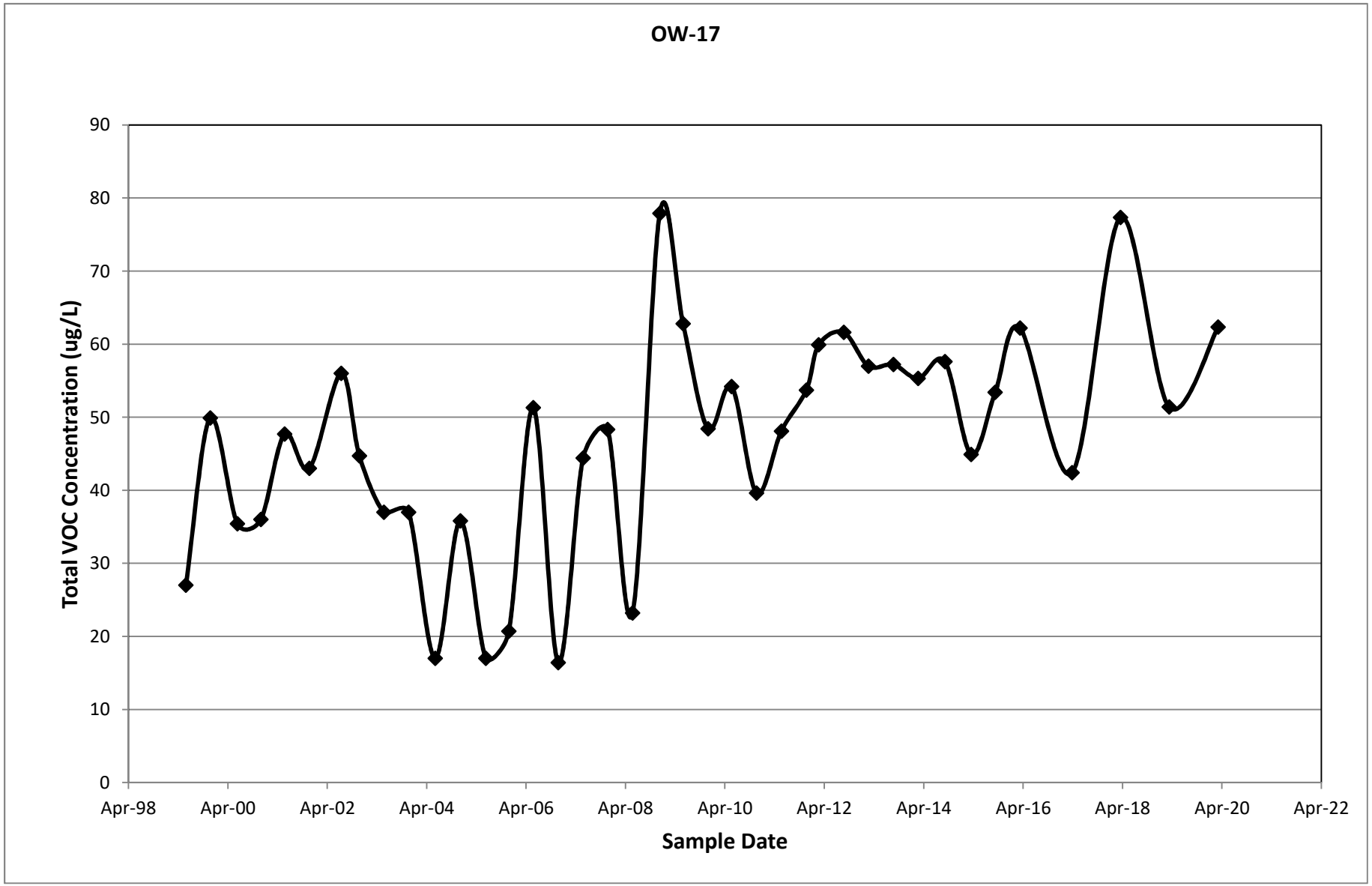
APPENDIX C

Construction Debris Site Total VOC Concentration Graphs



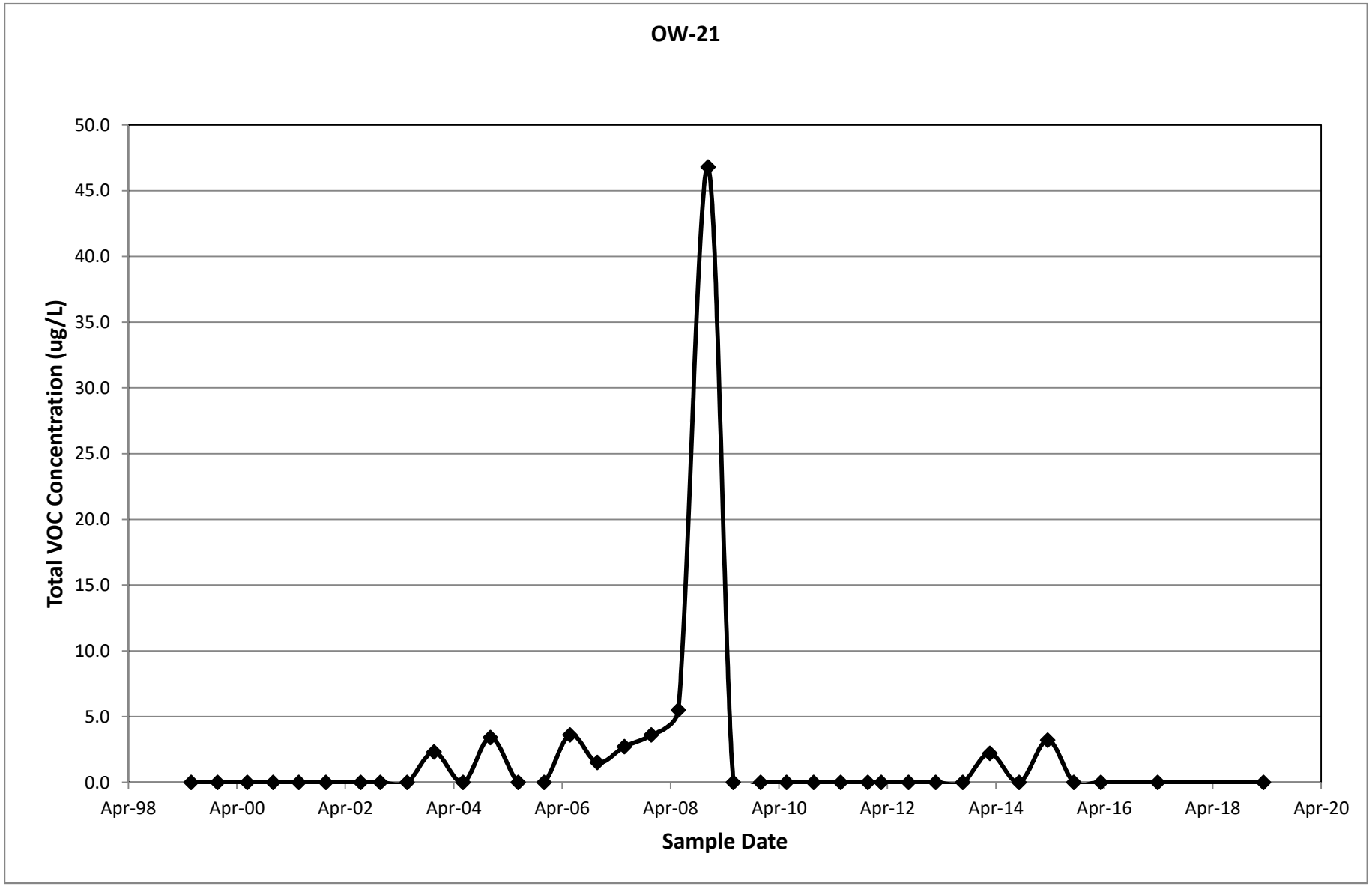
APPENDIX C

Construction Debris Site Total VOC Concentration Graphs



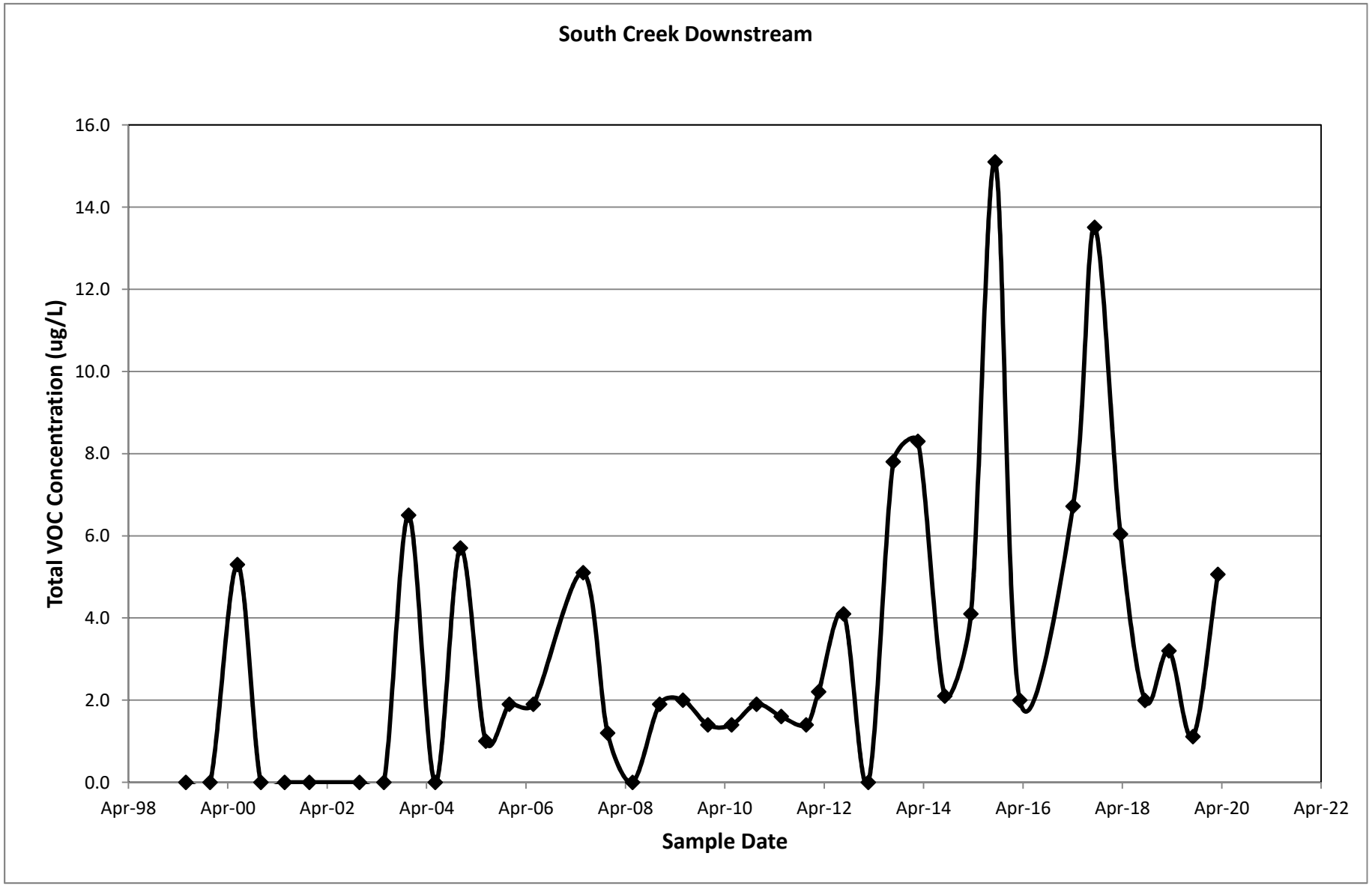
APPENDIX C

Construction Debris Site Total VOC Concentration Graphs



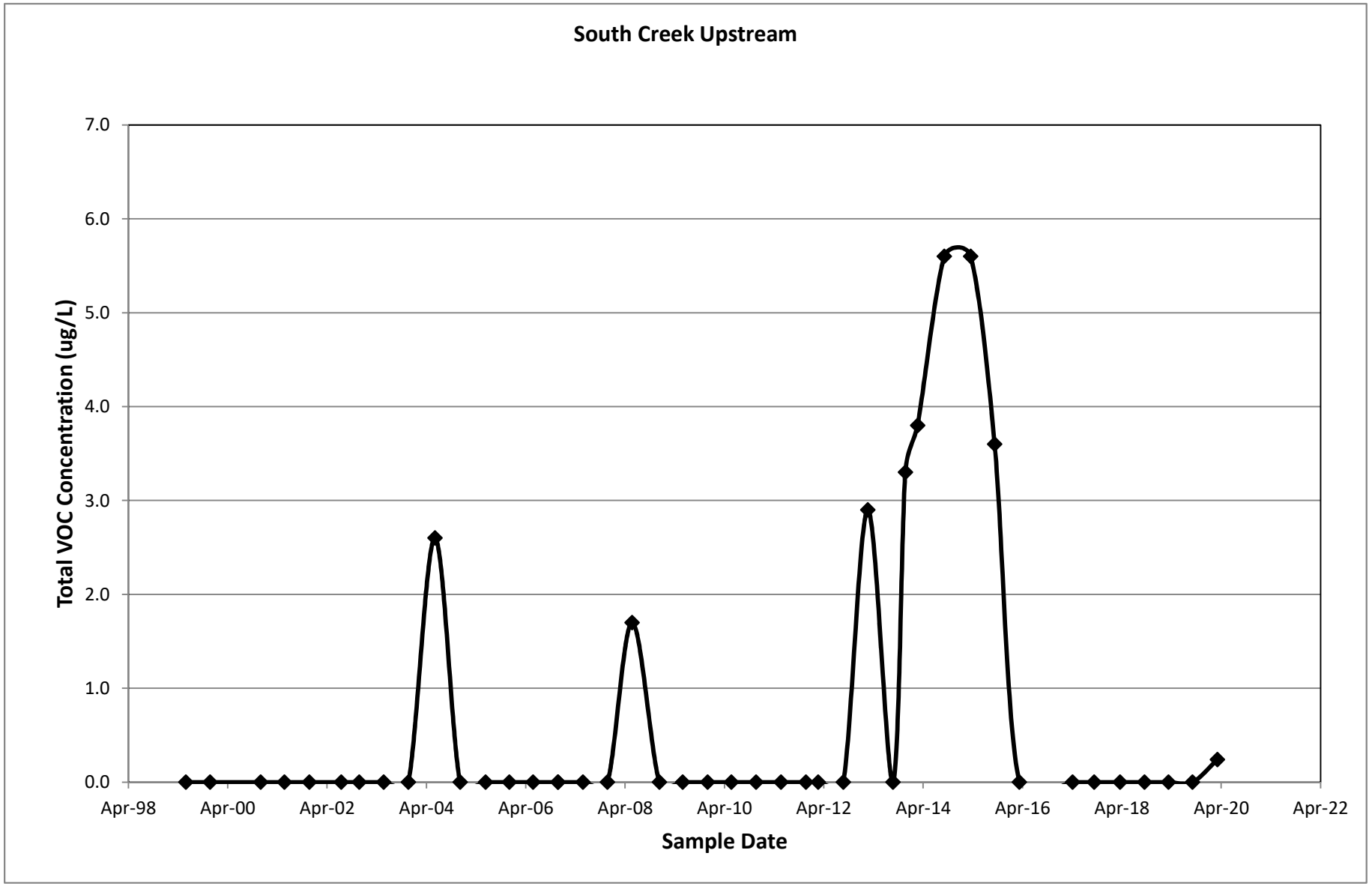
APPENDIX C

Construction Debris Site Total VOC Concentration Graphs



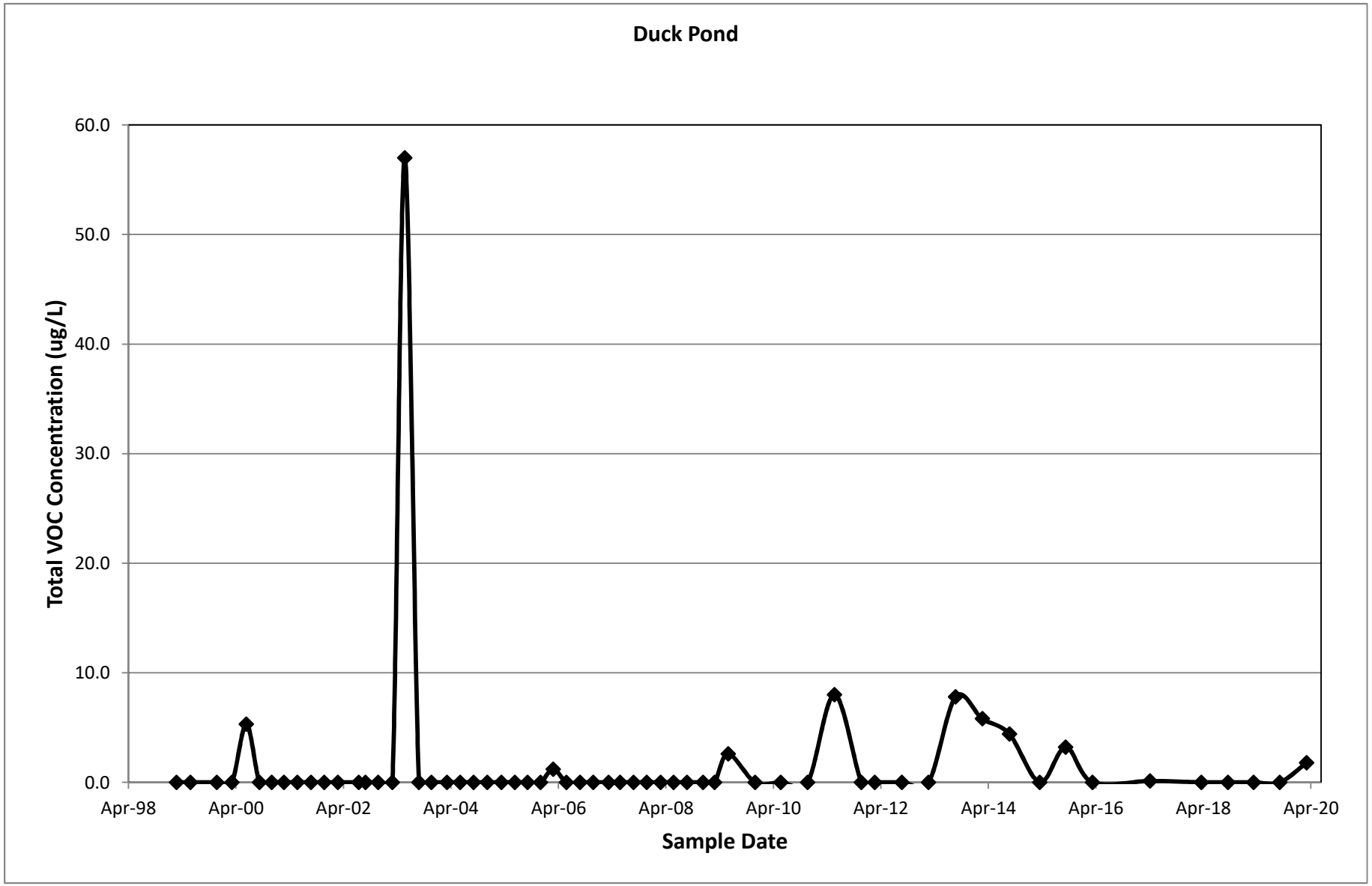
APPENDIX C

Construction Debris Site Total VOC Concentration Graphs



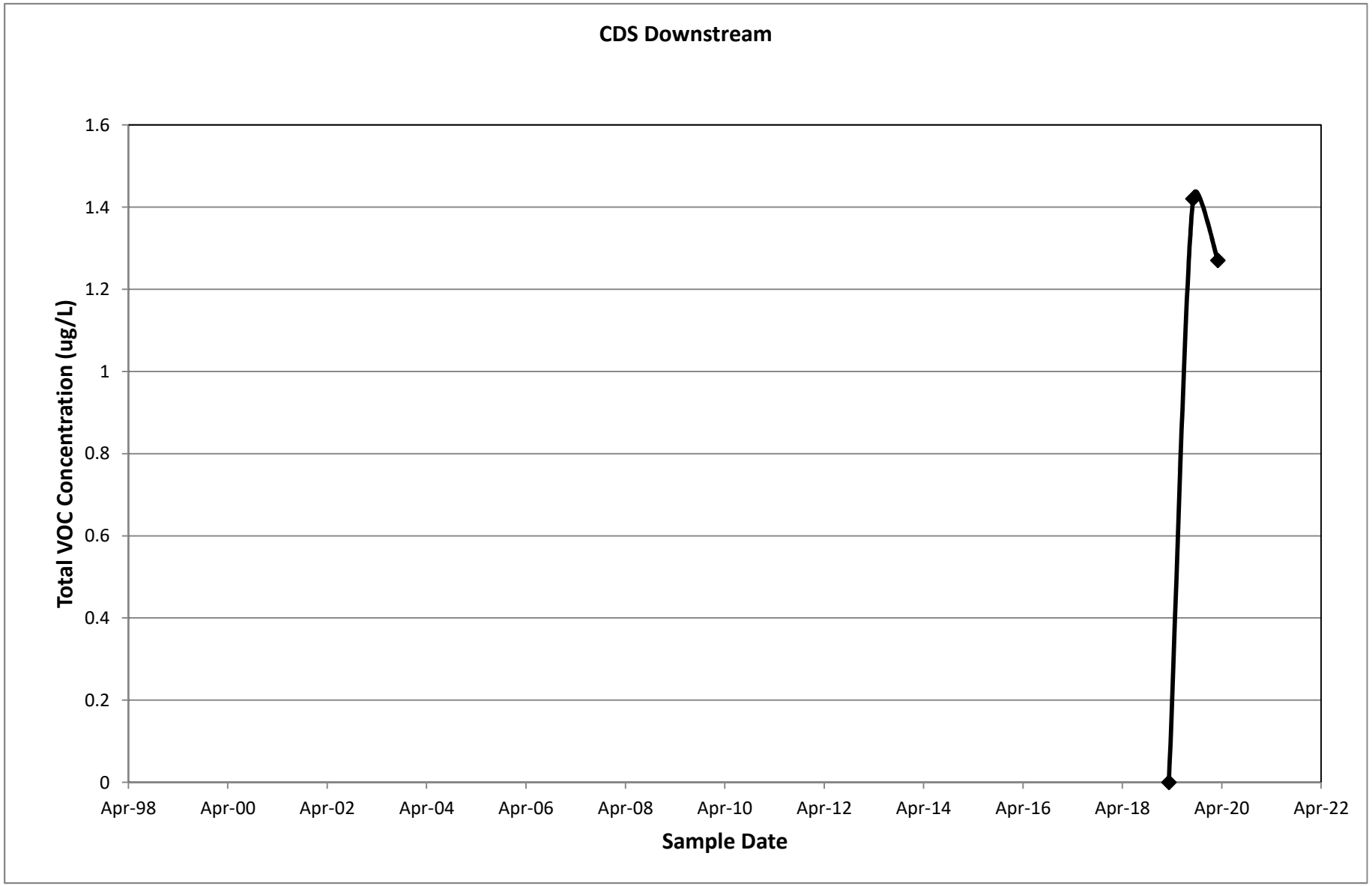
APPENDIX C

Burn Pit Total VOC Concentration Graphs



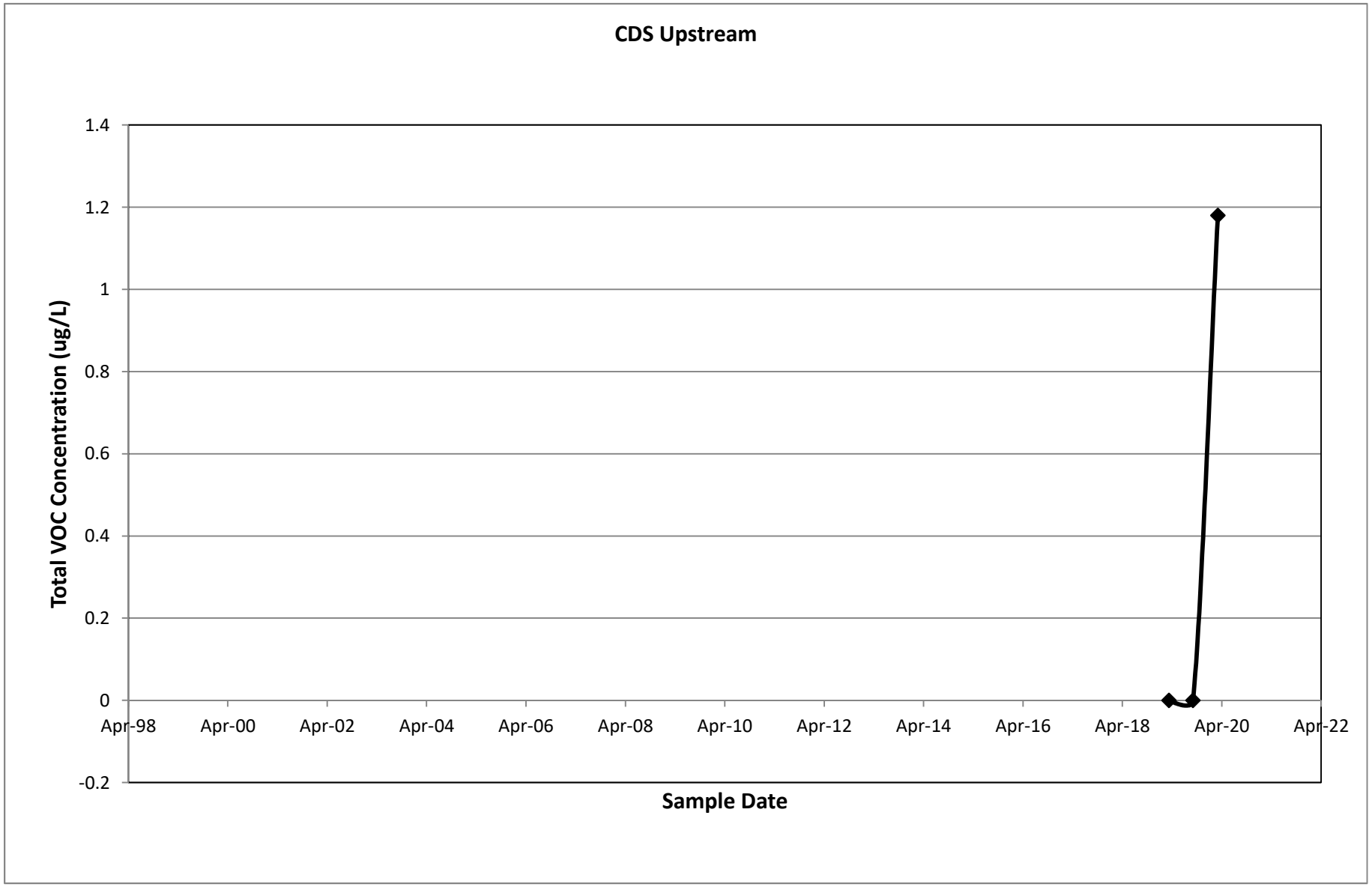
APPENDIX C

Construction Debris Site Total VOC Concentration Graphs



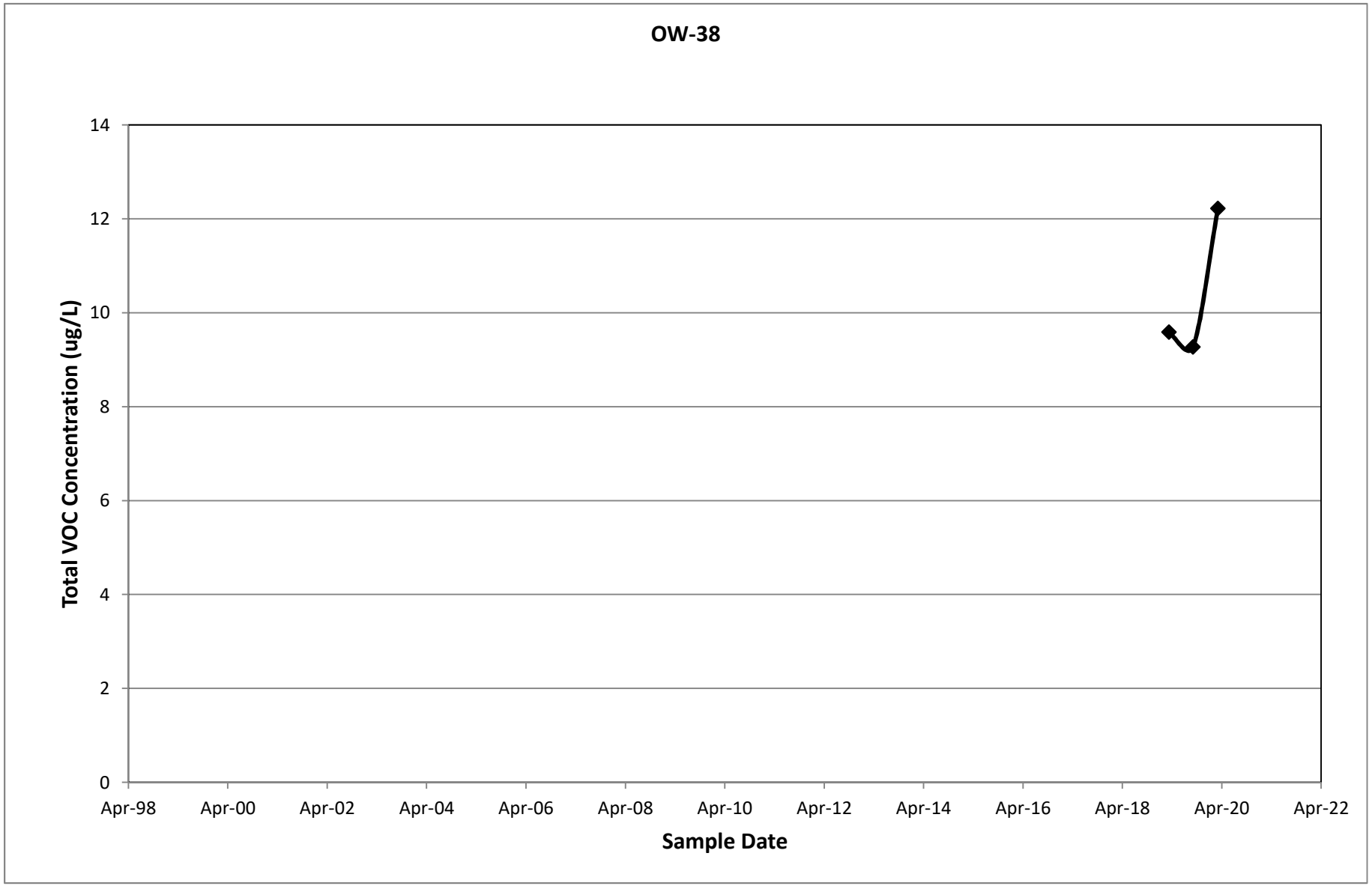
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Construction Debris Site Total VOC Concentration Graphs



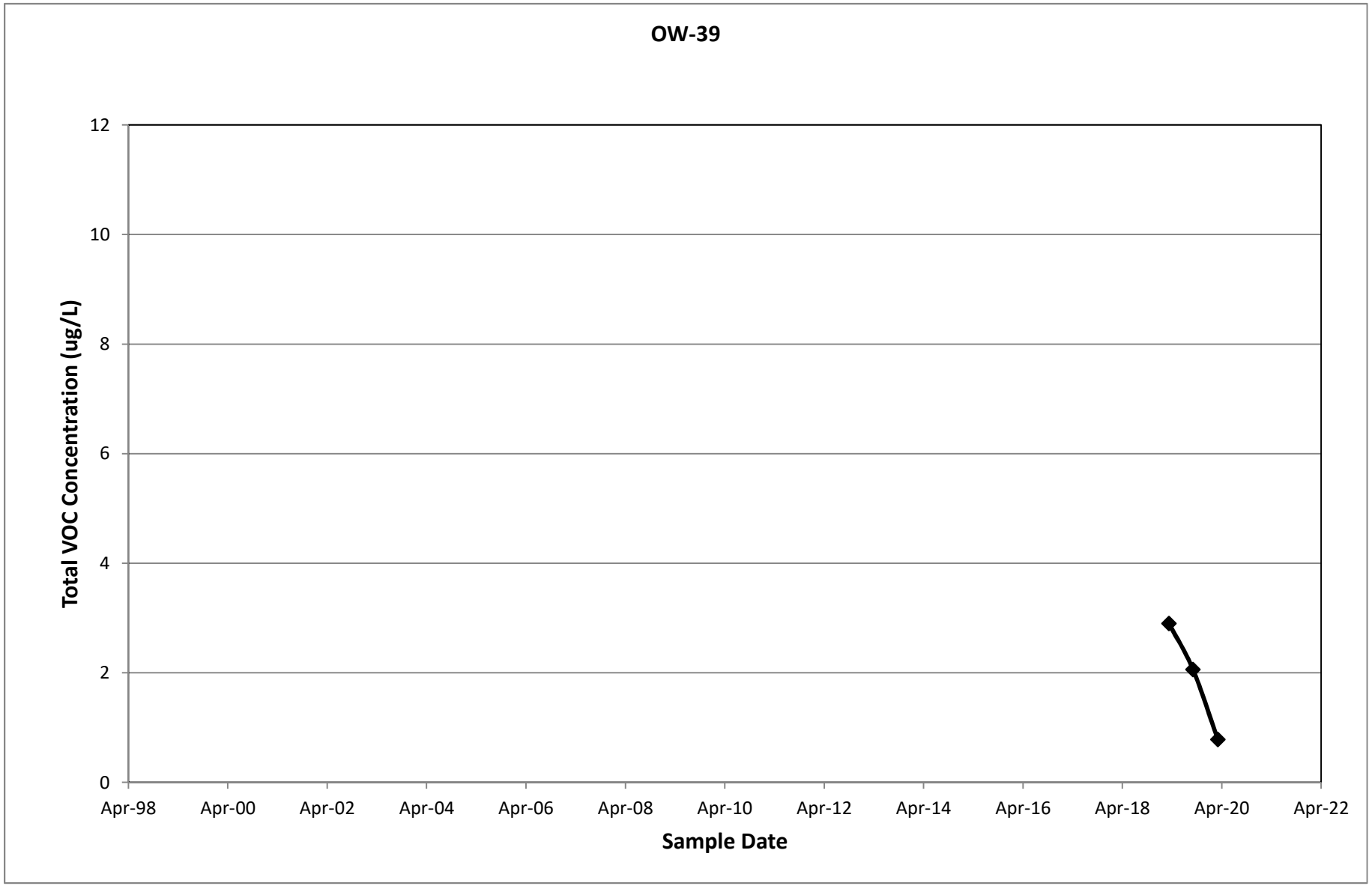
APPENDIX C

Construction Debris Site Total VOC Concentration Graphs



APPENDIX C

Construction Debris Site Total VOC Concentration Graphs



APPENDIX D
Historical Water Level Database

Appendix D - Historical Groundwater Elevations
Ascend Performance Materials Operations - Greenwood, South Carolina

LOCATION	DATE MEASURED	MEASURING POINT ELEVATION [1] (feet AMSL)	DEPTH TO WATER (feet BMP)	WATER ELEVATION (feet AMSL)
CDS				
OW-1	4/3/2017	473.29	7.84	465.45
	9/18/2017	473.29	13.57	459.72
	3/26/2018	473.29	11.31	461.98
	9/24/2018	473.29	14.21	459.08
	3/18/2019	473.29	8.63	464.66
	9/11/2019	473.29	12.27	461.02
	3/9/2020	473.29	7.95	465.34
OW-2D	4/3/2017	501.03	32.45	468.58
	9/18/2017	501.03	33.36	467.67
	3/26/2018	501.03	31.59	469.44
	9/24/2018	501.03	35.74	465.29
	3/18/2019	501.03	31.32	469.71
	9/11/2019	501.03	33.92	467.11
	3/9/2020	501.03	29.42	471.61
OW-13S	4/3/2017	496.58	19.87	476.71
	9/18/2017	496.58	21.74	474.84
	3/26/2018	496.58	19.13	477.45
	9/24/2018	496.58	23.18	473.40
	3/18/2019	496.58	17.40	479.18
	9/11/2019	496.58	20.73	475.85
	3/9/2020	496.58	15.62	480.96
OW-13D	4/3/2017	496.99	20.88	476.11
	9/18/2017	496.99	22.19	474.80
	3/26/2018	496.99	20.13	476.86
	9/24/2018	496.99	23.75	473.24
	3/18/2019	496.99	18.67	478.32
	9/11/2019	496.99	21.32	475.67
	3/9/2020	496.99	17.80	479.19
OW-15D	4/3/2017	468.05	11.29	456.76
	9/18/2017	468.05	10.96	457.09
	3/26/2018	468.05	7.23	460.82
	9/24/2018	468.05	11.57	456.48
	3/18/2019	468.05	NM	NM
	9/11/2019	468.05	10.95	457.10
	3/9/2020	468.05	3.88	464.17
OW-16	4/3/2017	492.34	30.11	462.23
	9/18/2017	492.34	31.12	461.22
	3/26/2018	492.34	29.67	462.67
	9/24/2018	492.34	31.42	460.92
	3/18/2019	492.34	28.69	463.65
	9/11/2019	492.34	30.98	461.36
	3/9/2020	492.34	28.05	464.29
OW-17	4/3/2017	493.30	15.51	477.79
	9/18/2017	493.30	16.23	477.07
	3/26/2018	493.30	15.33	477.97
	9/24/2018	493.30	14.60	478.70
	3/18/2019	493.30	13.05	480.25
	9/11/2019	493.30	12.77	480.53
	3/9/2020	493.30	11.89	481.41

Appendix D - Historical Groundwater Elevations
Ascend Performance Materials Operations - Greenwood, South Carolina

LOCATION	DATE MEASURED	MEASURING POINT ELEVATION [1] (feet AMSL)	DEPTH TO WATER (feet BMP)	WATER ELEVATION (feet AMSL)
CDS				
OW-19D	4/3/2017	513.19	29.30	483.89
	9/18/2017	513.19	30.84	482.35
	3/26/2018	513.19	33.05	480.14
	9/24/2018	513.19	34.09	479.10
	3/18/2019	513.19	24.50	488.69
	9/11/2019	513.19	25.69	487.50
	3/9/2020	513.19	18.15	495.04
OW-21	4/3/2017	472.95	5.70	467.25
	9/18/2017	472.95	6.57	466.38
	3/26/2018	472.95	5.50	467.45
	9/24/2018	472.95	7.67	465.28
	3/18/2019	472.95	5.86	467.09
	9/11/2019	472.95	8.83	464.12
	3/9/2020	472.95	5.15	467.80
OW-38	3/18/2019	517.61	27.27	490.34
	9/11/2019	517.61	27.79	489.82
	3/9/2020	517.61	26.35	491.26
OW-39	3/18/2019	517.60	14.95	502.65
	9/11/2019	517.60	16.78	500.82
	3/9/2020	517.60	11.05	506.55
EW-1B	4/3/2017	478.57	11.09	467.48
	9/18/2017	478.57	7.85	470.72
EW-1C	3/26/2018	483.85	18.70	465.15
	9/24/2018	483.85	32.28	451.57
	3/18/2019	483.85	9.82	474.03
	9/11/2019	483.85	NM	NM
	3/9/2020	483.85	16.70	467.15
EW-2A	4/3/2017	479.93	27.39	452.54
	9/18/2017	479.93	28.55	451.38
	3/26/2018	479.93	29.69	450.24
	9/24/2018	479.93	31.02	448.91
	3/18/2019	479.93	32.10	447.83
	9/11/2019	479.93	34.96	444.97
	3/9/2020	479.93	9.86	470.07
EW-3A	4/3/2017	483.57	17.42	466.15
	9/18/2017	483.57	26.43	457.14
	3/26/2018	483.57	9.79	473.78
EW-3B*	9/24/2018	483.57	49.00	434.57
	3/18/2019	483.57	10.75	472.82
	9/11/2019	483.57	NM	NM
	3/9/2020	483.57	40.15	443.42

Appendix D - Historical Groundwater Elevations
Ascend Performance Materials Operations - Greenwood, South Carolina

LOCATION	DATE MEASURED	MEASURING POINT ELEVATION [1] (feet AMSL)	DEPTH TO WATER (feet BMP)	WATER ELEVATION (feet AMSL)
Burn Pit				
OW-5S	4/3/2017	547.19	dry	dry
	9/18/2017	547.19	dry	dry
	3/26/2018	547.19	dry	dry
	9/24/2018	547.19	dry	dry
	3/18/2019	547.19	25.54	521.65
	9/11/2019	547.19	25.90	521.29
	3/9/2020	547.19	22.09	525.10
OW-24S	4/3/2017	555.79	dry	dry
	9/18/2017	555.79	dry	dry
	3/26/2018	555.79	dry	dry
	9/24/2018	555.79	dry	dry
	3/18/2019	555.79	31.47	524.32
	9/11/2019	555.79	DRY	DRY
	3/9/2020	555.79	29.25	526.54
OW-25S	4/3/2017	541.89	28.81	513.08
	9/18/2017	541.89	29.09	512.80
	3/26/2018	541.89	28.98	512.91
	9/24/2018	541.89	26.92	514.97
	3/18/2019	541.89	23.02	518.87
	9/11/2019	541.89	24.92	516.97
	3/9/2020	541.89	20.11	521.78
OW-26S	4/3/2017	540.38	31.49	508.89
	9/18/2017	540.38	32.17	508.21
	3/26/2018	540.38	31.03	509.35
	9/24/2018	540.38	28.20	512.18
	3/18/2019	540.38	22.75	517.63
	9/11/2019	540.38	24.31	516.07
	3/9/2020	540.38	18.57	521.81
OW-27D	4/3/2017	535.16	32.27	502.89
	9/18/2017	535.16	33.00	502.16
	3/26/2018	535.16	31.25	503.91
	9/24/2018	535.16	28.26	506.90
	3/18/2019	535.16	21.61	513.55
	9/11/2019	535.16	24.22	510.94
	3/9/2020	535.16	16.75	518.41
OW-28D	4/3/2017	498.96	14.67	484.29
	9/18/2017	498.96	15.66	483.30
	3/26/2018	498.96	12.76	486.20
	9/24/2018	498.96	14.40	484.56
	3/18/2019	498.96	11.14	487.82
	9/11/2019	498.96	13.99	484.97
	3/9/2020	498.96	10.15	488.81
OW-33S	3/26/2018	533.35	30.80	502.55
	9/24/2018	533.35	29.15	504.20
	3/18/2019	533.35	27.32	506.03
	9/11/2019	533.35	25.91	507.44
	3/9/2020	533.35	19.43	513.92

Appendix D - Historical Groundwater Elevations
Ascend Performance Materials Operations - Greenwood, South Carolina

LOCATION	DATE MEASURED	MEASURING POINT ELEVATION [1] (feet AMSL)	DEPTH TO WATER (feet BMP)	WATER ELEVATION (feet AMSL)
Burn Pit				
OW-34S	3/26/2018	533.78	34.40	499.38
	9/24/2018	533.78	31.79	501.99
	3/18/2019	533.78	26.78	507.00
	9/11/2019	533.78	26.68	507.10
	3/9/2020	533.78	22.55	511.23
OW-35D	3/26/2018	534.01	34.86	499.15
	9/24/2018	534.01	32.23	501.78
	3/18/2019	534.01	27.56	506.45
	9/11/2019	534.01	27.08	506.93
	3/9/2020	534.01	23.24	510.77
OW-36S	3/26/2018	539.76	45.75	494.01
	9/24/2018	539.76	34.57	505.19
	3/18/2019	539.76	41.90	497.86
	9/11/2019	539.76	39.55	500.21
	3/9/2020	539.76	38.19	501.57
OW-37D	3/26/2018	505.20	23.09	482.11
	9/24/2018	505.20	23.44	481.76
	3/18/2019	505.20	22.24	482.96
	9/11/2019	505.20	23.39	481.81
	3/9/2020	505.20	22.05	483.15
EW-4D	4/3/2017	510.07	41.60	468.47
	9/18/2017	510.07	43.46	466.61
	3/26/2018	510.07	41.39	468.68
	9/24/2018	510.07	41.30	468.77
	3/18/2019	510.07	36.34	473.73
	9/11/2019	510.07	40.30	469.77
	3/9/2020	510.07	33.83	476.24
EW-32S	4/3/2017	539.12	39.98	499.14
	9/18/2017	539.12	37.77	501.35
	3/26/2018	539.12	38.20	500.92
	9/24/2018	539.12	33.15	505.97
	3/18/2019	539.12	27.74	511.38
	9/11/2019	539.12	29.22	509.90
	3/9/2020	539.12	32.32	506.80
PZ-4S	4/3/2017	510.91	38.15	472.76
	9/18/2017	510.91	39.51	471.40
	3/26/2018	510.91	36.64	474.27
	9/24/2018	510.91	36.60	474.31
	3/18/2019	510.91	NM	NM
	9/11/2019	510.91	34.90	476.01
	3/9/2020	510.91	27.00	483.91
PZ-29S	4/3/2017	497.48	10.47	487.01
	9/18/2017	497.48	11.57	485.91
	3/26/2018	497.48	9.18	488.30
	9/24/2018	497.48	10.34	487.14
	3/18/2019	497.48	6.95	490.53
	9/11/2019	497.48	9.77	487.71
	3/9/2020	497.48	5.67	491.81

Appendix D - Historical Groundwater Elevations
Ascend Performance Materials Operations - Greenwood, South Carolina

LOCATION	DATE MEASURED	MEASURING POINT ELEVATION [1] (feet AMSL)	DEPTH TO WATER (feet BMP)	WATER ELEVATION (feet AMSL)
Burn Pit				
PZ-30S	4/3/2017	513.08	22.45	490.63
	9/18/2017	513.08	23.61	489.47
	3/26/2018	513.08	20.85	492.23
	9/24/2018	513.08	19.40	493.68
	3/18/2019	513.08	12.32	500.76
	9/11/2019	513.08	15.90	497.18
	3/9/2020	513.08	7.92	505.16
PZ-31S	4/3/2017	511.04	21.95	489.09
	9/18/2017	511.04	23.54	487.50
	3/26/2018	511.04	20.05	490.99
	9/24/2018	511.04	20.05	490.99
	3/18/2019	511.04	14.70	496.34
	9/11/2019	511.04	19.06	491.98
	3/9/2020	511.04	11.66	499.38

Appendix D - Historical Groundwater Elevations
Ascend Performance Materials Operations - Greenwood, South Carolina

LOCATION	DATE MEASURED	MEASURING POINT ELEVATION [1] (feet AMSL)	DEPTH TO WATER (feet BMP)	WATER ELEVATION (feet AMSL)
Waste Pond				
OW-6D	4/3/2017	572.36	30.07	542.29
	9/18/2017	572.36	31.75	540.61
	3/26/2018	572.36	32.18	540.18
	9/24/2018	572.36	31.32	541.04
	3/18/2019	572.36	29.52	542.84
OW-7S	4/3/2017	553.73	14.70	539.03
	9/18/2017	553.73	14.12	539.61
	3/26/2018	553.73	14.00	539.73
	9/24/2018	553.73	14.32	539.41
	3/18/2019	553.73	11.08	542.65
OW-8S	4/3/2017	542.23	6.82	535.41
	9/18/2017	542.23	55.66	486.57
	9/18/2017	542.23	7.30	534.93
	3/26/2018	542.23	6.79	535.44
	9/24/2018	542.23	NM	NM
	3/18/2019	542.23	3.53	538.70
OW-22S	4/3/2017	560.16	19.10	541.06
	9/18/2017	560.16	17.73	542.43
	3/26/2018	560.16	18.30	541.86
	9/24/2018	560.16	18.26	541.90
	3/18/2019	560.16	14.97	545.19
OW-23S	4/3/2017	544.30	9.50	534.80
	9/18/2017	544.30	9.51	534.79
	3/26/2018	544.30	9.56	534.74
	9/24/2018	544.30	9.25	535.05
	3/18/2019	544.30	5.94	538.36
OW-23D	4/3/2017	543.50	7.59	535.91
	9/18/2017	543.50	7.98	535.52
	3/26/2018	543.50	7.15	536.35
	9/24/2018	543.50	7.70	535.80
	3/18/2019	543.50	3.93	539.57

Appendix D - Historical Groundwater Elevations

Ascend Performance Materials Operations - Greenwood, South Carolina

LOCATION	DATE MEASURED	MEASURING POINT ELEVATION [1] (feet AMSL)	DEPTH TO WATER (feet BMP)	WATER ELEVATION (feet AMSL)
Perimeter				
OW-3D	4/3/2017	560.71	24.40	536.31
	9/18/2017	560.71	24.41	536.30
	3/26/2018	560.71	NM	NM
	9/24/2018	560.71	24.44	536.27
	3/18/2019	560.71	21.00	539.71
	9/11/2019	560.71	NM	NM
	3/9/2020	560.71	NM	NM
OW-9D	4/3/2017	558.42	52.61	505.81
	9/18/2017	558.42	53.10	505.32
	3/26/2018	558.42	53.58	504.84
	9/24/2018	558.42	53.31	505.11
	3/18/2019	558.42	50.96	507.46
	9/11/2019	558.42	49.25	509.17
	3/9/2020	558.42	47.78	510.64
OW-10D	4/3/2017	484.46	6.72	477.74
	9/18/2017	484.46	7.29	477.17
	3/26/2018	484.46	6.37	478.09
	9/24/2018	484.46	7.11	477.35
	3/18/2019	484.46	5.83	478.63
	9/11/2019	484.46	6.58	477.88
	3/9/2020	484.46	5.29	479.17
OW-11D	4/3/2017	541.19	45.80	495.39
	9/18/2017	541.19	46.75	494.44
	3/26/2018	541.19	47.77	493.42
	9/24/2018	541.19	47.62	493.57
	3/18/2019	541.19	NM	NM
	9/11/2019	541.19	NM	NM
	3/9/2020	541.19	NM	NM
OW-18D	4/3/2017	490.44	22.31	468.13
	9/18/2017	490.44	23.01	467.43
	3/26/2018	490.44	21.42	469.02
	9/24/2018	490.44	21.86	468.58
	3/18/2019	490.44	17.96	472.48
	9/11/2019	490.44	21.83	468.61
	3/9/2020	490.44	16.98	473.46
OW-20D	4/3/2017	566.72	56.97	509.75
	9/18/2017	566.72	55.93	510.79
	3/26/2018	566.72	56.76	509.96
	9/24/2018	566.72	dry	dry
	3/18/2019	566.72	dry	dry
	9/11/2019	566.72	55.35	511.37
	3/9/2020	566.72	55.28	511.44

NOTES:

[1] Measuring point elevations surveyed April 2017 by Site Design, Greenville, SC

AMSL = above mean sea level

BMP = below measuring point

NM= not measured

*Measuring point elevation used from nearby former well (EW-3A)

SW = surface water location

Appendix D - Historical Groundwater Elevations
Ascend Performance Materials Operations - Greenwood, South Carolina

LOCATION	DATE MEASURED	MEASURING POINT ELEVATION [1] (feet AMSL)	DEPTH TO WATER (feet BMP)	WATER ELEVATION (feet AMSL)

NM = not measured

APPENDIX E
March 2020 Field Data Sheets

Water Level Log

Project Number: ASC7005.GW
Project Name: Ascend Performance Materials- CDS
Location: Greenwood, SC

Date: 3-9-20
Personnel: GSC/SLM
Page: 1 of 1

Well ID	Total Depth	Depth-to-product		Depth-to-water	
		1/100 ft.	Time	1/100 ft.	Time
OW-9D	-		@	41.78	@ 1015
OW-11D			@ Lock	Stuck	@
OW-18D			@	16.98	@ 1027
OW-38			@	26.35	@ 1050
OW-39			@	11.09	@ 1134
OW-17			@	11.89	@ 1141
OW-16			@	28.05	@ 1057
OW-2D			@	29.42	@ 1100
OW-21			@	5.15	@ 1144
OW-1			@	7.95	@ 1148
OW-15D			@	33.86	@ 1217
OW-12D			@	55.28	@ 1207
OW-19D			@	18.15	@ 1213
EW-2A	-	-	@	9.86	@ 1111
EW-3B			@	40.15	@ 958
EW-1C			@	16.70	@ 1128
OW-13S			@	15.62	@ 1131
OW-13D			@	19.80	@ 1122

Water Level Log

Project Number: ASC7005.GW
Project Name: Ascend Performance Materials- Burn Pit
Location: Greenwood, SC

Date: 3-9-26
Personnel: SCM/GSL
Page: 1 of 1

Well ID	Total Depth	Depth-to-product		Depth-to-water	
		1/100 ft.	Time	1/100 ft.	Time
OW-33S			@	19.43	@ 1605
OW-34S			@	22.55	@ 1430
OW-24S			@ 2925	[illegible]	@ 1457
OW-37D			@	22.05	@ 1436
OW-35D			@	23.24	@ 1432
PZ-29S			@	5.67	@ 1455
PZ-31S			@	11.66	@ 1509
PZ-4S			@	27.00	@ 1512
PZ-30S			@	7.92	@ 1520
OW-10D			@	5.24	@ 1423
OW-25S			@	20.11	@ 1542
OW-26S			@	18.57	@ 1622
OW-36S			@	38.19	@ 1415
EW-4D			@	33.83	@ 1515
OW-28D			@	10.15	@ 1435
OW-5S			@	22.09	@ 1546
OW-27D			@	16.75	@ 1529
EW-32S			@	32.32	@ 1553

Sequence	Sample ID	Purge/ Sample Method	Sample Date	Sample Time	pH	Cond.	Temp
Surface Water Samples							
NA	North Creek Up	G	3-9	1457	7.47	68.2	17.2
	North Creek Down	G	3-9	1445	7.27	83.8	17.0
	Duck Pond	G	3-9	1152	6.88	80.3	21.0
	South Creek Down	G	3-9	1225	7.56	97.3	17.2
	South Creek Up	G	3-9	1238	7.41	93.2	18.9
	CDS Up	G	3-9	1251	7.33	91.4	17.8
	CDS Down	G	3-9	1249	7.37	84.7	17.6
Burn Pit							
1	OW-5S	WIT	3-10	1032	6.39	21.9	17.8
2	OW-24S	WIT	3-10	1026	6.26	57.1	19.0
3	OW-25S	WIT	3-10	1042	6.02	74.8	17.9
NA	OW-10D WAIT	PDB	—	—	—	—	—
	OW-26S	PDB	3-9	1621	5.48	34.8	18.2
	OW-27D	PDB	3-9	1653	6.86	130.0	18.1
	OW-28D WAIT	PDB	—	—	—	—	—
	OW-33S	PDB	3-9	1610	6.38	31.9	20.3
	OW-34S	PDB	3-10	1151	5.99	188.9	16.9
	OW-35D	PDB	3-10	1209	6.58	188.3	16.8
	OW-36S	PDB	3-10	1312	6.82	119.3	19.3
	PZ-04S	PDB	3-10	1131	6.25	62.2	16.3
	PZ-29S	PDB	3-10	1145	6.61	91.4	16.7
	PZ-30S WAIT	PDB					
	PZ-31S	PDB	3-10	1100	6.22	73.6	16.9
	EW-4D	S	3-10	1120	6.29	92.2	16.7
	EW-32S	S	3-9	1644	6.03	117.1	17.8
Construction Debris Site							
NA	OW-01 WAIT	PDB	—	—	—	—	—
	OW-2D	PDB	3-10	1336	7.12	21.7	14.2
	OW-13S	PDB	3-10	1420	6.88	21.1	18.3
	OW-13D	PDB	3-10	1429	7.02	13.9	18.2
	OW-16 WAIT	PDB	—	—	—	—	—
	OW-17 WAIT	PDB	—	—	—	—	—
	[redacted]	PDB	[redacted]				
	EW-1C	S	3-10	1347	7.09	27.7	15.4
	EW-2A	S	3-10	1359	6.97	27.4	18.9
	EW-3B	S	3-10	1406	7.18	26.7	18.8
FIELD BLANK-			3-10	1135	—	—	—
ow-38	PDB		3-10	1325	6.61	57.8	14.2
ow-39	PDB		3-10	1439	6.26	123.9	18.1

-DUP-1, 1448

[redacted]

Sequence	Sample ID	Purge/ Sample Method	Sample Date	Sample Time	pH	Cond.	Temp
Burn Pit							
NA	OW-10D-19	PDB	3-27	1400	6.66	230	21.7
	OW-10D-28	PDB		1405	6.34	246	19.1
	OW-10D-37	PDB		1415	6.34	250	18.7
	OW-28D-87	PDB		1440	6.77	110.2	22.5
	OW-28D-98	PDB		1445	6.49	115.9	19.5
	OW-28D-108	PDB		1450	6.54	120.6	23.8
	OW-37D	PDB		1330	7.43	114.8	22.5
	DUP-GW	PDB	3-27	1452	—	—	—
Construction Debris Site							
NA	OW-01-55	PDB	3-27	1110	5.90	134.2	18.5
	OW-01-65	PDB		1115	6.00	135.0	17.8
	OW-01-75	PDB		1120	6.30	182.6	17.4
	OW-01-85	PDB		1125	6.39	184.0	17.4
	OW-01-95	PDB		1130	6.46	198.9	17.6
	OW-16-63	PDB		1215	6.86	515	19.4
	OW-16-74	PDB		1220	6.42	551	19.6
	OW-17-23	PDB		1240	7.37	175.3	21.4
	OW-17-34	PDB		1245	6.94	173.3	20.4
	OW-17-46	PDB		1250	6.88	180.3	20.2
	OW-17-57	PDB	3-27	1255	6.79	183.8	20.0

* Dup here

- Not enough labels for SIM bottles. Also, used single membrane PDB for dup @ 1260.

* Bag twisted on other bag, unsure of depth. Bag twisted substantially from other bags

Collect duplicate sample from OW-28D

GSC 3-27-20

Meter Calibration Sheet

pH, Conductivity, Turbidity

HRP Job # : ASC 7005.6W
Description: Semi-annual GW sampling
Location: Greenwood, SC

pH (standard units)

Date: 3-27-20
Time: 1050

Analyst: GSC
Meter Serial No: 2856104

Meter: Model #:

Actual pH	Lot Number	Expiration Date	Measured (SU)*	Mid-Day Reading (7.0)	End of Day Reading (7.0)
4.00	8GK655	9/14/2019	4.01		
7.00	8GL004	10/15/2019	7.00		
10.00	8GK717	9/14/2019	10.05		
7.00**	8GL004	10/15/2019	7.05	7.08	

* Only report pH units to 0.1

*pH reading must be with in ± 0.1 standard units

**- QC check for pH reading must be within + 0.1 standard units

Comments:

Conductivity (uS/cm)

Date: 3-27-20
Time: 1050

Analyst: GSC
Meter Serial No: 193551

Meter: Model:

Actual Conductivity (uS/cm)		Lot Number	Expiration Date	Measured (SU)*	CVS / Mid-Day Reading	CVS / End of Day Reading
84		9GE337	Dec-19	85.7		
1413		8GF1227	Sep-19	1413		
447 (Lab Fortified Blank)		8GG1133	Sep-19	472	454	

*Conductivity reading must be with in ± 10%

*A Calibration Verification Standard (CVS) will be analyzed every ten (10) samples or mid-day, whichever comes first.

Comments:

Turbidity (NTU)

Date:
Time:

Analyst:
Meter Serial No:

Meter: Model:

Actual Turbidity (NTU)	Lot Number	Expiration Date	Measured	Mid-Day Reading	End of Day Reading
1000					
10.0					
0.02					

*Turbidity reading must be with in ± 10%

Comments:

APPENDIX F

March 2020 Laboratory Analytical Reports

Case Narrative

3/23/20 15:28

HRP Associates, Inc.
Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend
Project No.: Ascend
Lab Submittal Date: 03/11/2020
Work Order: 0030166

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

WAYPOINT ANALYTICAL

Angela D. Overcash

Senior Project Manager

Data Qualifiers Key Reference:

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
U	Not Detected at the MDL
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Sample Receipt Summary

03/23/2020

Work Order: 0030166

Client Sample ID	Lab Sample ID	Matrix	Date/Time Sampled	Date/Time Received
North Creek Up	0030166-01	Water	03/09/20 14:57	03/11/20 17:45
North Creek Down	0030166-02	Water	03/09/20 14:45	03/11/20 17:45
Duck Pond	0030166-03	Water	03/09/20 11:52	03/11/20 17:45
South Creek Down	0030166-04	Water	03/09/20 12:25	03/11/20 17:45
South Creek Up	0030166-05	Water	03/09/20 12:38	03/11/20 17:45
CDS Up	0030166-06	Water	03/09/20 12:57	03/11/20 17:45
CDS Down	0030166-07	Water	03/09/20 12:49	03/11/20 17:45
OW-5S	0030166-08	Water	03/10/20 10:32	03/11/20 17:45
OW-24S	0030166-09	Water	03/10/20 10:20	03/11/20 17:45
Dup-1	0030166-10	Water	03/09/20 14:48	03/11/20 17:45
OW-25S	0030166-11	Water	03/10/20 10:42	03/11/20 17:45
OW-26S	0030166-12	Water	03/09/20 16:27	03/11/20 17:45
OW-27D	0030166-13	Water	03/09/20 16:53	03/11/20 17:45
OW-33S	0030166-14	Water	03/09/20 16:10	03/11/20 17:45
OW-34S	0030166-15	Water	03/10/20 11:57	03/11/20 17:45
OW-35D	0030166-16	Water	03/10/20 12:09	03/11/20 17:45
OW-36S	0030166-17	Water	03/10/20 13:12	03/11/20 17:45
PZ-4S	0030166-18	Water	03/10/20 11:31	03/11/20 17:45
PZ-29S	0030166-19	Water	03/10/20 11:45	03/11/20 17:45
PZ-31S	0030166-20	Water	03/10/20 11:00	03/11/20 17:45
EW-4D	0030166-21	Water	03/10/20 11:20	03/11/20 17:45
EW-32S	0030166-22	Water	03/09/20 16:44	03/11/20 17:45
OW-2D	0030166-23	Water	03/10/20 13:36	03/11/20 17:45
OW-13S	0030166-24	Water	03/10/20 14:20	03/11/20 17:45
OW-13D	0030166-25	Water	03/10/20 14:29	03/11/20 17:45
EW-1C	0030166-26	Water	03/10/20 13:47	03/11/20 17:45
EW-2A	0030166-27	Water	03/10/20 13:59	03/11/20 17:45
EW-3B	0030166-28	Water	03/10/20 14:06	03/11/20 17:45
OW-38	0030166-29	Water	03/10/20 13:25	03/11/20 17:45
OW-39	0030166-30	Water	03/10/20 14:39	03/11/20 17:45
FB	0030166-31	Water	03/10/20 11:35	03/11/20 17:45
Trip Blank	0030166-32	Water	03/10/20 0:00	03/11/20 17:45

Samples were received in good condition at 2.1 degrees C unless otherwise noted.

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

03/23/2020

Work Order: 0030166

Waypoint ID	Client ID	Parameter	Method	Result		Units
0030166-01	North Creek Up	1,1-Dichloroethylene	8260D	0.51		ug/L
0030166-02	North Creek Down	1,1-Dichloroethylene	8260D	0.40	J	ug/L
0030166-02	North Creek Down	Trichloroethylene	8260D	0.28	J	ug/L
0030166-03	Duck Pond	1,1-Dichloroethylene	8260D	0.27	J	ug/L
0030166-03	Duck Pond	Trichloroethylene	8260D	0.21	J	ug/L
0030166-03	Duck Pond	1,4-Dioxane	8260D SIM	1.3	J	ug/L
0030166-04	South Creek Down	1,1-Dichloroethane	8260D	0.67		ug/L
0030166-04	South Creek Down	1,1-Dichloroethylene	8260D	1.4		ug/L
0030166-04	South Creek Down	Trichloroethylene	8260D	0.39	J	ug/L
0030166-04	South Creek Down	1,4-Dioxane	8260D SIM	2.6		ug/L
0030166-05	South Creek Up	1,1-Dichloroethylene	8260D	0.24	J	ug/L
0030166-06	CDS Up	1,1-Dichloroethylene	8260D	0.36	J	ug/L
0030166-06	CDS Up	Chloroform	8260D	0.23	J	ug/L
0030166-06	CDS Up	Trichloroethylene	8260D	0.59		ug/L
0030166-07	CDS Down	1,1-Dichloroethylene	8260D	0.39	J	ug/L
0030166-07	CDS Down	Chloroform	8260D	0.28	J	ug/L
0030166-07	CDS Down	Trichloroethylene	8260D	0.60		ug/L
0030166-08	OW-5S	1,1,1-Trichloroethane	8260D	54		ug/L
0030166-08	OW-5S	1,1-Dichloroethylene	8260D	21		ug/L
0030166-08	OW-5S	Tetrachloroethylene	8260D	150		ug/L
0030166-08	OW-5S	Trichloroethylene	8260D	360		ug/L
0030166-09	OW-24S	Acetone	8260D	6.9		ug/L
0030166-09	OW-24S	Chloroform	8260D	1.3		ug/L
0030166-09	OW-24S	Tetrachloroethylene	8260D	0.31	J	ug/L
0030166-10	Dup-1	1,1-Dichloroethylene	8260D	0.40	J	ug/L
0030166-10	Dup-1	Trichloroethylene	8260D	0.29	J	ug/L
0030166-11	OW-25S	1,1,1-Trichloroethane	8260D	0.40	J	ug/L
0030166-11	OW-25S	1,1,2-Trichloroethane	8260D	0.25	J	ug/L
0030166-11	OW-25S	1,1-Dichloroethane	8260D	2.3		ug/L
0030166-11	OW-25S	1,1-Dichloroethylene	8260D	18		ug/L
0030166-11	OW-25S	Acetone	8260D	3.6	J	ug/L
0030166-11	OW-25S	Chloroform	8260D	2.0		ug/L
0030166-11	OW-25S	cis-1,2-Dichloroethylene	8260D	0.41	J	ug/L
0030166-11	OW-25S	Tetrachloroethylene	8260D	9.8		ug/L
0030166-11	OW-25S	Trichloroethylene	8260D	81		ug/L
0030166-11	OW-25S	1,4-Dioxane	8260D SIM	11		ug/L
0030166-12	OW-26S	1,1,1-Trichloroethane	8260D	0.46	J	ug/L
0030166-12	OW-26S	1,1-Dichloroethylene	8260D	0.81		ug/L
0030166-12	OW-26S	Chloroform	8260D	0.21	J	ug/L
0030166-12	OW-26S	Tetrachloroethylene	8260D	7.8		ug/L
0030166-12	OW-26S	Trichloroethylene	8260D	5.8		ug/L
0030166-13	OW-27D	1,1,1-Trichloroethane	8260D	62		ug/L

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Waypoint ID	Client ID	Parameter	Method	Result		Units
0030166-13	OW-27D	1,1-Dichloroethylene	8260D	120		ug/L
0030166-13	OW-27D	Chloroform	8260D	7.7		ug/L
0030166-13	OW-27D	Tetrachloroethylene	8260D	780		ug/L
0030166-13	OW-27D	Trichloroethylene	8260D	670		ug/L
0030166-13	OW-27D	1,4-Dioxane	8260D SIM	29		ug/L
0030166-15	OW-34S	Acetone	8260D	3.3	J	ug/L
0030166-15	OW-34S	Bromomethane	8260D	0.20	J	ug/L
0030166-16	OW-35D	1,1-Dichloroethane	8260D	2.6		ug/L
0030166-16	OW-35D	1,1-Dichloroethylene	8260D	3.2		ug/L
0030166-16	OW-35D	1,2-Dichloroethane	8260D	0.35	J	ug/L
0030166-16	OW-35D	cis-1,2-Dichloroethylene	8260D	2.3		ug/L
0030166-16	OW-35D	Tetrachloroethylene	8260D	0.68		ug/L
0030166-16	OW-35D	Trichloroethylene	8260D	3.8		ug/L
0030166-16	OW-35D	Vinyl chloride	8260D	37		ug/L
0030166-16	OW-35D	1,4-Dioxane	8260D SIM	13		ug/L
0030166-17	OW-36S	1,1-Dichloroethane	8260D	2.1		ug/L
0030166-17	OW-36S	1,1-Dichloroethylene	8260D	55		ug/L
0030166-17	OW-36S	1,2-Dichloroethane	8260D	0.41	J	ug/L
0030166-17	OW-36S	Chloroform	8260D	0.36	J	ug/L
0030166-17	OW-36S	cis-1,2-Dichloroethylene	8260D	1.2		ug/L
0030166-17	OW-36S	Tetrachloroethylene	8260D	3.4		ug/L
0030166-17	OW-36S	Trichloroethylene	8260D	46		ug/L
0030166-17	OW-36S	1,4-Dioxane	8260D SIM	9.0		ug/L
0030166-18	PZ-4S	1,1,2-Trichloroethane	8260D	0.32	J	ug/L
0030166-18	PZ-4S	1,1-Dichloroethane	8260D	0.50		ug/L
0030166-18	PZ-4S	1,1-Dichloroethylene	8260D	15		ug/L
0030166-18	PZ-4S	1,2-Dichloroethane	8260D	0.20	J	ug/L
0030166-18	PZ-4S	Acetone	8260D	2.9	J	ug/L
0030166-18	PZ-4S	Chloroform	8260D	0.21	J	ug/L
0030166-18	PZ-4S	cis-1,2-Dichloroethylene	8260D	0.25	J	ug/L
0030166-18	PZ-4S	Tetrachloroethylene	8260D	0.27	J	ug/L
0030166-18	PZ-4S	Trichloroethylene	8260D	6.0		ug/L
0030166-18	PZ-4S	1,4-Dioxane	8260D SIM	5.2		ug/L
0030166-19	PZ-29S	1,1-Dichloroethylene	8260D	2.2		ug/L
0030166-19	PZ-29S	Trichloroethylene	8260D	2.5		ug/L
0030166-20	PZ-31S	1,1,2-Trichloroethane	8260D	1.1		ug/L
0030166-20	PZ-31S	1,1-Dichloroethylene	8260D	24		ug/L
0030166-20	PZ-31S	1,2-Dichloroethane	8260D	0.25	J	ug/L
0030166-20	PZ-31S	Acetone	8260D	4.0	J	ug/L
0030166-20	PZ-31S	cis-1,2-Dichloroethylene	8260D	0.44	J	ug/L
0030166-20	PZ-31S	Trichloroethylene	8260D	0.67		ug/L
0030166-20	PZ-31S	1,4-Dioxane	8260D SIM	1.3	J	ug/L
0030166-21	EW-4D	1,1,1-Trichloroethane	8260D	1.8		ug/L
0030166-21	EW-4D	1,1,2-Trichloroethane	8260D	0.27	J	ug/L
0030166-21	EW-4D	1,1-Dichloroethane	8260D	0.83		ug/L

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Waypoint ID	Client ID	Parameter	Method	Result		Units
0030166-21	EW-4D	1,1-Dichloroethylene	8260D	59		ug/L
0030166-21	EW-4D	1,2-Dichloroethane	8260D	0.61		ug/L
0030166-21	EW-4D	Carbon Tetrachloride	8260D	1.5		ug/L
0030166-21	EW-4D	Chloroform	8260D	57		ug/L
0030166-21	EW-4D	cis-1,2-Dichloroethylene	8260D	0.66		ug/L
0030166-21	EW-4D	Tetrachloroethylene	8260D	25		ug/L
0030166-21	EW-4D	Trichloroethylene	8260D	120		ug/L
0030166-21	EW-4D	1,4-Dioxane	8260D SIM	20		ug/L
0030166-22	EW-32S	1,1,1-Trichloroethane	8260D	110		ug/L
0030166-22	EW-32S	1,1-Dichloroethylene	8260D	180		ug/L
0030166-22	EW-32S	Tetrachloroethylene	8260D	1400		ug/L
0030166-22	EW-32S	Trichloroethylene	8260D	2500		ug/L
0030166-22	EW-32S	1,4-Dioxane	8260D SIM	530		ug/L
0030166-23	OW-2D	1,1,1-Trichloroethane	8260D	2.1		ug/L
0030166-23	OW-2D	1,1,2-Trichloroethane	8260D	0.61		ug/L
0030166-23	OW-2D	1,1-Dichloroethane	8260D	120		ug/L
0030166-23	OW-2D	1,1-Dichloroethylene	8260D	260		ug/L
0030166-23	OW-2D	1,2-Dichloroethane	8260D	2.8		ug/L
0030166-23	OW-2D	Chloroform	8260D	6.0		ug/L
0030166-23	OW-2D	cis-1,2-Dichloroethylene	8260D	8.2		ug/L
0030166-23	OW-2D	Tetrachloroethylene	8260D	1.2		ug/L
0030166-23	OW-2D	Trichloroethylene	8260D	54		ug/L
0030166-23	OW-2D	Vinyl chloride	8260D	0.57		ug/L
0030166-23	OW-2D	1,4-Dioxane	8260D SIM	21		ug/L
0030166-24	OW-13S	1,1,2-Trichloroethane	8260D	0.72		ug/L
0030166-24	OW-13S	1,1-Dichloroethane	8260D	68		ug/L
0030166-24	OW-13S	1,1-Dichloroethylene	8260D	93		ug/L
0030166-24	OW-13S	1,2-Dichloroethane	8260D	0.86		ug/L
0030166-24	OW-13S	Chloroform	8260D	4.9		ug/L
0030166-24	OW-13S	cis-1,2-Dichloroethylene	8260D	21		ug/L
0030166-24	OW-13S	Trichloroethylene	8260D	29		ug/L
0030166-24	OW-13S	Vinyl chloride	8260D	0.24	J	ug/L
0030166-24	OW-13S	1,4-Dioxane	8260D SIM	21		ug/L
0030166-25	OW-13D	1,1,1-Trichloroethane	8260D	3.1	J	ug/L
0030166-25	OW-13D	1,1,2-Trichloroethane	8260D	3.9	J	ug/L
0030166-25	OW-13D	1,1-Dichloroethane	8260D	22		ug/L
0030166-25	OW-13D	1,1-Dichloroethylene	8260D	1800		ug/L
0030166-25	OW-13D	1,2-Dichloroethane	8260D	6.8		ug/L
0030166-25	OW-13D	Chloroform	8260D	47		ug/L
0030166-25	OW-13D	cis-1,2-Dichloroethylene	8260D	7.6		ug/L
0030166-25	OW-13D	Tetrachloroethylene	8260D	2.2	J	ug/L
0030166-25	OW-13D	Trichloroethylene	8260D	620		ug/L
0030166-25	OW-13D	1,4-Dioxane	8260D SIM	330		ug/L
0030166-26	EW-1C	1,1,1-Trichloroethane	8260D	43		ug/L
0030166-26	EW-1C	1,1-Dichloroethane	8260D	170		ug/L

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Waypoint ID	Client ID	Parameter	Method	Result		Units
0030166-26	EW-1C	1,1-Dichloroethylene	8260D	320		ug/L
0030166-26	EW-1C	1,2-Dichloroethane	8260D	3.3	J	ug/L
0030166-26	EW-1C	Chloroform	8260D	5.2		ug/L
0030166-26	EW-1C	cis-1,2-Dichloroethylene	8260D	24		ug/L
0030166-26	EW-1C	Trichloroethylene	8260D	71		ug/L
0030166-26	EW-1C	Vinyl chloride	8260D	2.1	J	ug/L
0030166-26	EW-1C	1,4-Dioxane	8260D SIM	150		ug/L
0030166-27	EW-2A	1,1,1-Trichloroethane	8260D	70		ug/L
0030166-27	EW-2A	1,1-Dichloroethane	8260D	160		ug/L
0030166-27	EW-2A	1,1-Dichloroethylene	8260D	310		ug/L
0030166-27	EW-2A	1,2-Dichloroethane	8260D	3.2	J	ug/L
0030166-27	EW-2A	Chloroform	8260D	4.4	J	ug/L
0030166-27	EW-2A	cis-1,2-Dichloroethylene	8260D	20		ug/L
0030166-27	EW-2A	Trichloroethylene	8260D	71		ug/L
0030166-27	EW-2A	Vinyl chloride	8260D	2.2	J	ug/L
0030166-27	EW-2A	1,4-Dioxane	8260D SIM	150		ug/L
0030166-28	EW-3B	1,1,1-Trichloroethane	8260D	25		ug/L
0030166-28	EW-3B	1,1-Dichloroethane	8260D	170		ug/L
0030166-28	EW-3B	1,1-Dichloroethylene	8260D	330		ug/L
0030166-28	EW-3B	1,2-Dichloroethane	8260D	3.5	J	ug/L
0030166-28	EW-3B	Chloroform	8260D	4.9	J	ug/L
0030166-28	EW-3B	cis-1,2-Dichloroethylene	8260D	19		ug/L
0030166-28	EW-3B	Trichloroethylene	8260D	68		ug/L
0030166-28	EW-3B	Vinyl chloride	8260D	2.1	J	ug/L
0030166-28	EW-3B	1,4-Dioxane	8260D SIM	170		ug/L
0030166-29	OW-38	1,1-Dichloroethane	8260D	0.30	J	ug/L
0030166-29	OW-38	1,1-Dichloroethylene	8260D	0.72		ug/L
0030166-29	OW-38	Carbon Tetrachloride	8260D	3.7		ug/L
0030166-29	OW-38	Chloroform	8260D	7.5		ug/L
0030166-30	OW-39	1,1-Dichloroethylene	8260D	0.41	J	ug/L
0030166-30	OW-39	Trichloroethylene	8260D	0.37	J	ug/L

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: North Creek Up
Sample ID: 0030166-01
Work Order: 0030166
Time Collected: 03/09/20 14:57
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	3/17/20 23:38	JLB	P0C0332
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/17/20 23:38	JLB	P0C0332
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/17/20 23:38	JLB	P0C0332
1,1-Dichloroethane	0.083 U	ug/L	0.50	0.083	1	8260D	3/17/20 23:38	JLB	P0C0332
1,1-Dichloroethylene	**0.51**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/17/20 23:38**	**JLB**	**P0C0332**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/17/20 23:38	JLB	P0C0332
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/17/20 23:38	JLB	P0C0332
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	3/17/20 23:38	JLB	P0C0332
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/17/20 23:38	JLB	P0C0332
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/17/20 23:38	JLB	P0C0332
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/17/20 23:38	JLB	P0C0332
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/17/20 23:38	JLB	P0C0332
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/17/20 23:38	JLB	P0C0332
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/17/20 23:38	JLB	P0C0332
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/17/20 23:38	JLB	P0C0332
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/17/20 23:38	JLB	P0C0332
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	3/17/20 23:38	JLB	P0C0332
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/17/20 23:38	JLB	P0C0332
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	3/17/20 23:38	JLB	P0C0332
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/17/20 23:38	JLB	P0C0332
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/17/20 23:38	JLB	P0C0332
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/17/20 23:38	JLB	P0C0332
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/17/20 23:38	JLB	P0C0332
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/17/20 23:38	JLB	P0C0332
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/17/20 23:38	JLB	P0C0332
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/17/20 23:38	JLB	P0C0332
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/17/20 23:38	JLB	P0C0332
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/17/20 23:38	JLB	P0C0332
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/17/20 23:38	JLB	P0C0332
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/17/20 23:38	JLB	P0C0332
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	3/17/20 23:38	JLB	P0C0332
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/17/20 23:38	JLB	P0C0332
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/17/20 23:38	JLB	P0C0332
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/17/20 23:38	JLB	P0C0332
Trichloroethylene	0.078 U	ug/L	0.50	0.078	1	8260D	3/17/20 23:38	JLB	P0C0332
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/17/20 23:38	JLB	P0C0332
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/17/20 23:38	JLB	P0C0332

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*
Dibromofluoromethane	*103 %*	*75-129*
Toluene-d8	*100 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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Laboratory Report

03/23/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: North Creek Up
Sample ID: 0030166-01
Work Order: 0030166
Time Collected: 03/09/20 14:57
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	0.14 U	ug/L	2.0	0.14	1	8260D SIM	3/13/20 16:29	TBL	P0C0270

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: North Creek Down
Sample ID: 0030166-02
Work Order: 0030166
Time Collected: 03/09/20 14:45
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	3/17/20 19:57	JLB	P0C0332
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/17/20 19:57	JLB	P0C0332
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/17/20 19:57	JLB	P0C0332
1,1-Dichloroethane	0.083 U	ug/L	0.50	0.083	1	8260D	3/17/20 19:57	JLB	P0C0332
1,1-Dichloroethylene	**0.40 J**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/17/20 19:57**	**JLB**	**P0C0332**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/17/20 19:57	JLB	P0C0332
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/17/20 19:57	JLB	P0C0332
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	3/17/20 19:57	JLB	P0C0332
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/17/20 19:57	JLB	P0C0332
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/17/20 19:57	JLB	P0C0332
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/17/20 19:57	JLB	P0C0332
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/17/20 19:57	JLB	P0C0332
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/17/20 19:57	JLB	P0C0332
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/17/20 19:57	JLB	P0C0332
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/17/20 19:57	JLB	P0C0332
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/17/20 19:57	JLB	P0C0332
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	3/17/20 19:57	JLB	P0C0332
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/17/20 19:57	JLB	P0C0332
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	3/17/20 19:57	JLB	P0C0332
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/17/20 19:57	JLB	P0C0332
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/17/20 19:57	JLB	P0C0332
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/17/20 19:57	JLB	P0C0332
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/17/20 19:57	JLB	P0C0332
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/17/20 19:57	JLB	P0C0332
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/17/20 19:57	JLB	P0C0332
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/17/20 19:57	JLB	P0C0332
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/17/20 19:57	JLB	P0C0332
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/17/20 19:57	JLB	P0C0332
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/17/20 19:57	JLB	P0C0332
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/17/20 19:57	JLB	P0C0332
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	3/17/20 19:57	JLB	P0C0332
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/17/20 19:57	JLB	P0C0332
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/17/20 19:57	JLB	P0C0332
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/17/20 19:57	JLB	P0C0332
Trichloroethylene	**0.28 J**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**3/17/20 19:57**	**JLB**	**P0C0332**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/17/20 19:57	JLB	P0C0332
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/17/20 19:57	JLB	P0C0332

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*
Dibromofluoromethane	*102 %*	*75-129*
Toluene-d8	*100 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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Laboratory Report

03/23/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: North Creek Down
Sample ID: 0030166-02
Work Order: 0030166
Time Collected: 03/09/20 14:45
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	0.14 U	ug/L	2.0	0.14	1	8260D SIM	3/13/20 16:54	TBL	P0C0270

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: Duck Pond
Sample ID: 0030166-03
Work Order: 0030166
Time Collected: 03/09/20 11:52
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	3/17/20 20:21	JLB	P0C0332
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/17/20 20:21	JLB	P0C0332
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/17/20 20:21	JLB	P0C0332
1,1-Dichloroethane	0.083 U	ug/L	0.50	0.083	1	8260D	3/17/20 20:21	JLB	P0C0332
1,1-Dichloroethylene	**0.27** J	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/17/20 20:21**	**JLB**	**P0C0332**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/17/20 20:21	JLB	P0C0332
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/17/20 20:21	JLB	P0C0332
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	3/17/20 20:21	JLB	P0C0332
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/17/20 20:21	JLB	P0C0332
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/17/20 20:21	JLB	P0C0332
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/17/20 20:21	JLB	P0C0332
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/17/20 20:21	JLB	P0C0332
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/17/20 20:21	JLB	P0C0332
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/17/20 20:21	JLB	P0C0332
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/17/20 20:21	JLB	P0C0332
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/17/20 20:21	JLB	P0C0332
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	3/17/20 20:21	JLB	P0C0332
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/17/20 20:21	JLB	P0C0332
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	3/17/20 20:21	JLB	P0C0332
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/17/20 20:21	JLB	P0C0332
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/17/20 20:21	JLB	P0C0332
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/17/20 20:21	JLB	P0C0332
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/17/20 20:21	JLB	P0C0332
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/17/20 20:21	JLB	P0C0332
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/17/20 20:21	JLB	P0C0332
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/17/20 20:21	JLB	P0C0332
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/17/20 20:21	JLB	P0C0332
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/17/20 20:21	JLB	P0C0332
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/17/20 20:21	JLB	P0C0332
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/17/20 20:21	JLB	P0C0332
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	3/17/20 20:21	JLB	P0C0332
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/17/20 20:21	JLB	P0C0332
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/17/20 20:21	JLB	P0C0332
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/17/20 20:21	JLB	P0C0332
Trichloroethylene	**0.21** J	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**3/17/20 20:21**	**JLB**	**P0C0332**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/17/20 20:21	JLB	P0C0332
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/17/20 20:21	JLB	P0C0332

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*103 %*	*75-129*
Toluene-d8	*99 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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Laboratory Report

03/23/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: Duck Pond
Sample ID: 0030166-03
Work Order: 0030166
Time Collected: 03/09/20 11:52
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	**1.3** J	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/13/20 17:19**	**TBL**	**P0C0270**

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: South Creek Down
Sample ID: 0030166-04
Work Order: 0030166
Time Collected: 03/09/20 12:25
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	3/17/20 20:46	JLB	P0C0332
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/17/20 20:46	JLB	P0C0332
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/17/20 20:46	JLB	P0C0332
1,1-Dichloroethane	**0.67**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/17/20 20:46**	**JLB**	**P0C0332**
1,1-Dichloroethylene	**1.4**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/17/20 20:46**	**JLB**	**P0C0332**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/17/20 20:46	JLB	P0C0332
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/17/20 20:46	JLB	P0C0332
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	3/17/20 20:46	JLB	P0C0332
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/17/20 20:46	JLB	P0C0332
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/17/20 20:46	JLB	P0C0332
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/17/20 20:46	JLB	P0C0332
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/17/20 20:46	JLB	P0C0332
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/17/20 20:46	JLB	P0C0332
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/17/20 20:46	JLB	P0C0332
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/17/20 20:46	JLB	P0C0332
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/17/20 20:46	JLB	P0C0332
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	3/17/20 20:46	JLB	P0C0332
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/17/20 20:46	JLB	P0C0332
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	3/17/20 20:46	JLB	P0C0332
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/17/20 20:46	JLB	P0C0332
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/17/20 20:46	JLB	P0C0332
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/17/20 20:46	JLB	P0C0332
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/17/20 20:46	JLB	P0C0332
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/17/20 20:46	JLB	P0C0332
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/17/20 20:46	JLB	P0C0332
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/17/20 20:46	JLB	P0C0332
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/17/20 20:46	JLB	P0C0332
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/17/20 20:46	JLB	P0C0332
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/17/20 20:46	JLB	P0C0332
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/17/20 20:46	JLB	P0C0332
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	3/17/20 20:46	JLB	P0C0332
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/17/20 20:46	JLB	P0C0332
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/17/20 20:46	JLB	P0C0332
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/17/20 20:46	JLB	P0C0332
Trichloroethylene	**0.39** J	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**3/17/20 20:46**	**JLB**	**P0C0332**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/17/20 20:46	JLB	P0C0332
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/17/20 20:46	JLB	P0C0332

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*103 %*	*75-129*
Toluene-d8	*98 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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Laboratory Report

03/23/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: South Creek Down
Sample ID: 0030166-04
Work Order: 0030166
Time Collected: 03/09/20 12:25
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	**2.6**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/13/20 17:44**	**TBL**	**P0C0270**

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: South Creek Up
Sample ID: 0030166-05
Work Order: 0030166
Time Collected: 03/09/20 12:38
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	3/17/20 21:11	JLB	P0C0332
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/17/20 21:11	JLB	P0C0332
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/17/20 21:11	JLB	P0C0332
1,1-Dichloroethane	0.083 U	ug/L	0.50	0.083	1	8260D	3/17/20 21:11	JLB	P0C0332
1,1-Dichloroethylene	**0.24** J	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/17/20 21:11**	**JLB**	**P0C0332**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/17/20 21:11	JLB	P0C0332
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/17/20 21:11	JLB	P0C0332
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	3/17/20 21:11	JLB	P0C0332
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/17/20 21:11	JLB	P0C0332
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/17/20 21:11	JLB	P0C0332
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/17/20 21:11	JLB	P0C0332
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/17/20 21:11	JLB	P0C0332
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/17/20 21:11	JLB	P0C0332
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/17/20 21:11	JLB	P0C0332
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/17/20 21:11	JLB	P0C0332
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/17/20 21:11	JLB	P0C0332
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	3/17/20 21:11	JLB	P0C0332
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/17/20 21:11	JLB	P0C0332
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	3/17/20 21:11	JLB	P0C0332
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/17/20 21:11	JLB	P0C0332
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/17/20 21:11	JLB	P0C0332
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/17/20 21:11	JLB	P0C0332
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/17/20 21:11	JLB	P0C0332
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/17/20 21:11	JLB	P0C0332
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/17/20 21:11	JLB	P0C0332
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/17/20 21:11	JLB	P0C0332
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/17/20 21:11	JLB	P0C0332
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/17/20 21:11	JLB	P0C0332
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/17/20 21:11	JLB	P0C0332
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/17/20 21:11	JLB	P0C0332
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	3/17/20 21:11	JLB	P0C0332
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/17/20 21:11	JLB	P0C0332
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/17/20 21:11	JLB	P0C0332
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/17/20 21:11	JLB	P0C0332
Trichloroethylene	0.078 U	ug/L	0.50	0.078	1	8260D	3/17/20 21:11	JLB	P0C0332
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/17/20 21:11	JLB	P0C0332
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/17/20 21:11	JLB	P0C0332

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*80-124*
Dibromofluoromethane	*102 %*	*75-129*
Toluene-d8	*101 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: South Creek Up
Sample ID: 0030166-05
Work Order: 0030166
Time Collected: 03/09/20 12:38
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	0.14 U	ug/L	2.0	0.14	1	8260D SIM	3/13/20 18:10	TBL	P0C0270

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: CDS Up
Sample ID: 0030166-06
Work Order: 0030166
Time Collected: 03/09/20 12:57
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	3/17/20 21:35	JLB	P0C0332
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/17/20 21:35	JLB	P0C0332
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/17/20 21:35	JLB	P0C0332
1,1-Dichloroethane	0.083 U	ug/L	0.50	0.083	1	8260D	3/17/20 21:35	JLB	P0C0332
1,1-Dichloroethylene	**0.36** J	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/17/20 21:35**	**JLB**	**P0C0332**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/17/20 21:35	JLB	P0C0332
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/17/20 21:35	JLB	P0C0332
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	3/17/20 21:35	JLB	P0C0332
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/17/20 21:35	JLB	P0C0332
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/17/20 21:35	JLB	P0C0332
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/17/20 21:35	JLB	P0C0332
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/17/20 21:35	JLB	P0C0332
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/17/20 21:35	JLB	P0C0332
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/17/20 21:35	JLB	P0C0332
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/17/20 21:35	JLB	P0C0332
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/17/20 21:35	JLB	P0C0332
Chloroform	**0.23** J	**ug/L**	**0.50**	**0.076**	**1**	**8260D**	**3/17/20 21:35**	**JLB**	**P0C0332**
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/17/20 21:35	JLB	P0C0332
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	3/17/20 21:35	JLB	P0C0332
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/17/20 21:35	JLB	P0C0332
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/17/20 21:35	JLB	P0C0332
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/17/20 21:35	JLB	P0C0332
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/17/20 21:35	JLB	P0C0332
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/17/20 21:35	JLB	P0C0332
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/17/20 21:35	JLB	P0C0332
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/17/20 21:35	JLB	P0C0332
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/17/20 21:35	JLB	P0C0332
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/17/20 21:35	JLB	P0C0332
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/17/20 21:35	JLB	P0C0332
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/17/20 21:35	JLB	P0C0332
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	3/17/20 21:35	JLB	P0C0332
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/17/20 21:35	JLB	P0C0332
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/17/20 21:35	JLB	P0C0332
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/17/20 21:35	JLB	P0C0332
Trichloroethylene	**0.59**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**3/17/20 21:35**	**JLB**	**P0C0332**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/17/20 21:35	JLB	P0C0332
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/17/20 21:35	JLB	P0C0332

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*103 %*	*75-129*
Toluene-d8	*99 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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Laboratory Report

03/23/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: CDS Up
Sample ID: 0030166-06
Work Order: 0030166
Time Collected: 03/09/20 12:57
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	0.14 U	ug/L	2.0	0.14	1	8260D SIM	3/13/20 18:35	TBL	P0C0270

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: CDS Down
Sample ID: 0030166-07
Work Order: 0030166
Time Collected: 03/09/20 12:49
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	3/17/20 22:00	JLB	P0C0332
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/17/20 22:00	JLB	P0C0332
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/17/20 22:00	JLB	P0C0332
1,1-Dichloroethane	0.083 U	ug/L	0.50	0.083	1	8260D	3/17/20 22:00	JLB	P0C0332
1,1-Dichloroethylene	**0.39** J	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/17/20 22:00**	**JLB**	**P0C0332**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/17/20 22:00	JLB	P0C0332
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/17/20 22:00	JLB	P0C0332
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	3/17/20 22:00	JLB	P0C0332
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/17/20 22:00	JLB	P0C0332
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/17/20 22:00	JLB	P0C0332
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/17/20 22:00	JLB	P0C0332
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/17/20 22:00	JLB	P0C0332
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/17/20 22:00	JLB	P0C0332
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/17/20 22:00	JLB	P0C0332
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/17/20 22:00	JLB	P0C0332
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/17/20 22:00	JLB	P0C0332
Chloroform	**0.28** J	**ug/L**	**0.50**	**0.076**	**1**	**8260D**	**3/17/20 22:00**	**JLB**	**P0C0332**
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/17/20 22:00	JLB	P0C0332
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	3/17/20 22:00	JLB	P0C0332
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/17/20 22:00	JLB	P0C0332
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/17/20 22:00	JLB	P0C0332
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/17/20 22:00	JLB	P0C0332
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/17/20 22:00	JLB	P0C0332
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/17/20 22:00	JLB	P0C0332
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/17/20 22:00	JLB	P0C0332
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/17/20 22:00	JLB	P0C0332
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/17/20 22:00	JLB	P0C0332
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/17/20 22:00	JLB	P0C0332
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/17/20 22:00	JLB	P0C0332
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/17/20 22:00	JLB	P0C0332
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	3/17/20 22:00	JLB	P0C0332
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/17/20 22:00	JLB	P0C0332
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/17/20 22:00	JLB	P0C0332
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/17/20 22:00	JLB	P0C0332
Trichloroethylene	**0.60**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**3/17/20 22:00**	**JLB**	**P0C0332**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/17/20 22:00	JLB	P0C0332
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/17/20 22:00	JLB	P0C0332

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*102 %*	*75-129*
Toluene-d8	*100 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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Laboratory Report

03/23/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: CDS Down
Sample ID: 0030166-07
Work Order: 0030166
Time Collected: 03/09/20 12:49
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	0.14 U	ug/L	2.0	0.14	1	8260D SIM	3/13/20 19:00	TBL	P0C0270

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-5S
Sample ID: 0030166-08
Work Order: 0030166
Time Collected: 03/10/20 10:32
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	**54**	**ug/L**	**5.0**	**0.61**	**10**	**8260D**	**3/18/20 17:29**	**JLB**	**P0C0354**
1,1,2,2-Tetrachloroethane	0.36 U	ug/L	5.0	0.36	10	8260D	3/18/20 17:29	JLB	P0C0354
1,1,2-Trichloroethane	0.66 U	ug/L	5.0	0.66	10	8260D	3/18/20 17:29	JLB	P0C0354
1,1-Dichloroethane	0.83 U	ug/L	5.0	0.83	10	8260D	3/18/20 17:29	JLB	P0C0354
1,1-Dichloroethylene	**21**	**ug/L**	**5.0**	**0.83**	**10**	**8260D**	**3/18/20 17:29**	**JLB**	**P0C0354**
1,2-Dichloroethane	0.66 U	ug/L	5.0	0.66	10	8260D	3/18/20 17:29	JLB	P0C0354
1,2-Dichloropropane	1.1 U	ug/L	5.0	1.1	10	8260D	3/18/20 17:29	JLB	P0C0354
Acetone	3.1 U	ug/L	50	3.1	10	8260D	3/18/20 17:29	JLB	P0C0354
Benzene	0.48 U	ug/L	5.0	0.48	10	8260D	3/18/20 17:29	JLB	P0C0354
Bromodichloromethane	0.62 U	ug/L	5.0	0.62	10	8260D	3/18/20 17:29	JLB	P0C0354
Bromoform	0.40 U	ug/L	10	0.40	10	8260D	3/18/20 17:29	JLB	P0C0354
Bromomethane	1.8 U	ug/L	10	1.8	10	8260D	3/18/20 17:29	JLB	P0C0354
Carbon disulfide	0.75 U	ug/L	50	0.75	10	8260D	3/18/20 17:29	JLB	P0C0354
Carbon Tetrachloride	1.1 U	ug/L	5.0	1.1	10	8260D	3/18/20 17:29	JLB	P0C0354
Chlorobenzene	0.62 U	ug/L	5.0	0.62	10	8260D	3/18/20 17:29	JLB	P0C0354
Chloroethane	2.2 U	ug/L	5.0	2.2	10	8260D	3/18/20 17:29	JLB	P0C0354
Chloroform	0.76 U	ug/L	5.0	0.76	10	8260D	3/18/20 17:29	JLB	P0C0354
Chloromethane	0.79 U	ug/L	5.0	0.79	10	8260D	3/18/20 17:29	JLB	P0C0354
cis-1,2-Dichloroethylene	0.56 U	ug/L	5.0	0.56	10	8260D	3/18/20 17:29	JLB	P0C0354
cis-1,3-Dichloropropylene	0.79 U	ug/L	5.0	0.79	10	8260D	3/18/20 17:29	JLB	P0C0354
Dibromochloromethane	0.81 U	ug/L	5.0	0.81	10	8260D	3/18/20 17:29	JLB	P0C0354
Dichlorodifluoromethane	1.1 U	ug/L	50	1.1	10	8260D	3/18/20 17:29	JLB	P0C0354
Ethylbenzene	0.61 U	ug/L	5.0	0.61	10	8260D	3/18/20 17:29	JLB	P0C0354
m,p-Xylenes	1.2 U	ug/L	10	1.2	10	8260D	3/18/20 17:29	JLB	P0C0354
Methyl Butyl Ketone (2-Hexanone)	0.65 U	ug/L	50	0.65	10	8260D	3/18/20 17:29	JLB	P0C0354
Methyl Ethyl Ketone (2-Butanone)	2.4 U	ug/L	50	2.4	10	8260D	3/18/20 17:29	JLB	P0C0354
Methyl Isobutyl Ketone	0.78 U	ug/L	50	0.78	10	8260D	3/18/20 17:29	JLB	P0C0354
Methylene Chloride	0.83 U	ug/L	10	0.83	10	8260D	3/18/20 17:29	JLB	P0C0354
o-Xylene	0.44 U	ug/L	5.0	0.44	10	8260D	3/18/20 17:29	JLB	P0C0354
Styrene	0.47 U	ug/L	5.0	0.47	10	8260D	3/18/20 17:29	JLB	P0C0354
Tetrachloroethylene	**150**	**ug/L**	**5.0**	**0.98**	**10**	**8260D**	**3/18/20 17:29**	**JLB**	**P0C0354**
Toluene	0.44 U	ug/L	5.0	0.44	10	8260D	3/18/20 17:29	JLB	P0C0354
trans-1,2-Dichloroethylene	0.94 U	ug/L	5.0	0.94	10	8260D	3/18/20 17:29	JLB	P0C0354
trans-1,3-Dichloropropylene	0.70 U	ug/L	5.0	0.70	10	8260D	3/18/20 17:29	JLB	P0C0354
Trichloroethylene	**360**	**ug/L**	**5.0**	**0.78**	**10**	**8260D**	**3/18/20 17:29**	**JLB**	**P0C0354**
Vinyl chloride	0.97 U	ug/L	5.0	0.97	10	8260D	3/18/20 17:29	JLB	P0C0354
Xylenes, total	1.5 U	ug/L	15	1.5	10	8260D	3/18/20 17:29	JLB	P0C0354

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*100 %*	*75-129*
Toluene-d8	*102 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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Laboratory Report

03/23/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-5S
Sample ID: 0030166-08
Work Order: 0030166
Time Collected: 03/10/20 10:32
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	0.14 U	ug/L	2.0	0.14	1	8260D SIM	3/13/20 19:25	TBL	P0C0270

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-24S
Sample ID: 0030166-09
Work Order: 0030166
Time Collected: 03/10/20 10:20
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	3/17/20 22:24	JLB	P0C0332
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/17/20 22:24	JLB	P0C0332
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/17/20 22:24	JLB	P0C0332
1,1-Dichloroethane	0.083 U	ug/L	0.50	0.083	1	8260D	3/17/20 22:24	JLB	P0C0332
1,1-Dichloroethylene	0.083 U	ug/L	0.50	0.083	1	8260D	3/17/20 22:24	JLB	P0C0332
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/17/20 22:24	JLB	P0C0332
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/17/20 22:24	JLB	P0C0332
Acetone	**6.9**	**ug/L**	**5.0**	**0.31**	**1**	**8260D**	**3/17/20 22:24**	**JLB**	**P0C0332**
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/17/20 22:24	JLB	P0C0332
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/17/20 22:24	JLB	P0C0332
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/17/20 22:24	JLB	P0C0332
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/17/20 22:24	JLB	P0C0332
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/17/20 22:24	JLB	P0C0332
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/17/20 22:24	JLB	P0C0332
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/17/20 22:24	JLB	P0C0332
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/17/20 22:24	JLB	P0C0332
Chloroform	**1.3**	**ug/L**	**0.50**	**0.076**	**1**	**8260D**	**3/17/20 22:24**	**JLB**	**P0C0332**
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/17/20 22:24	JLB	P0C0332
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	3/17/20 22:24	JLB	P0C0332
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/17/20 22:24	JLB	P0C0332
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/17/20 22:24	JLB	P0C0332
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/17/20 22:24	JLB	P0C0332
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/17/20 22:24	JLB	P0C0332
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/17/20 22:24	JLB	P0C0332
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/17/20 22:24	JLB	P0C0332
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/17/20 22:24	JLB	P0C0332
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/17/20 22:24	JLB	P0C0332
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/17/20 22:24	JLB	P0C0332
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/17/20 22:24	JLB	P0C0332
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/17/20 22:24	JLB	P0C0332
Tetrachloroethylene	**0.31** J	**ug/L**	**0.50**	**0.098**	**1**	**8260D**	**3/17/20 22:24**	**JLB**	**P0C0332**
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/17/20 22:24	JLB	P0C0332
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/17/20 22:24	JLB	P0C0332
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/17/20 22:24	JLB	P0C0332
Trichloroethylene	0.078 U	ug/L	0.50	0.078	1	8260D	3/17/20 22:24	JLB	P0C0332
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/17/20 22:24	JLB	P0C0332
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/17/20 22:24	JLB	P0C0332

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*103 %*	*75-129*
Toluene-d8	*100 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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Laboratory Report

03/23/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-24S
Sample ID: 0030166-09
Work Order: 0030166
Time Collected: 03/10/20 10:20
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	0.14 U	ug/L	2.0	0.14	1	8260D SIM	3/13/20 19:50	TBL	P0C0270

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: Dup-1
Sample ID: 0030166-10
Work Order: 0030166
Time Collected: 03/09/20 14:48
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	3/17/20 22:49	JLB	P0C0332
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/17/20 22:49	JLB	P0C0332
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/17/20 22:49	JLB	P0C0332
1,1-Dichloroethane	0.083 U	ug/L	0.50	0.083	1	8260D	3/17/20 22:49	JLB	P0C0332
1,1-Dichloroethylene	**0.40 J**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/17/20 22:49**	**JLB**	**P0C0332**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/17/20 22:49	JLB	P0C0332
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/17/20 22:49	JLB	P0C0332
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	3/17/20 22:49	JLB	P0C0332
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/17/20 22:49	JLB	P0C0332
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/17/20 22:49	JLB	P0C0332
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/17/20 22:49	JLB	P0C0332
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/17/20 22:49	JLB	P0C0332
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/17/20 22:49	JLB	P0C0332
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/17/20 22:49	JLB	P0C0332
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/17/20 22:49	JLB	P0C0332
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/17/20 22:49	JLB	P0C0332
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	3/17/20 22:49	JLB	P0C0332
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/17/20 22:49	JLB	P0C0332
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	3/17/20 22:49	JLB	P0C0332
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/17/20 22:49	JLB	P0C0332
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/17/20 22:49	JLB	P0C0332
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/17/20 22:49	JLB	P0C0332
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/17/20 22:49	JLB	P0C0332
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/17/20 22:49	JLB	P0C0332
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/17/20 22:49	JLB	P0C0332
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/17/20 22:49	JLB	P0C0332
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/17/20 22:49	JLB	P0C0332
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/17/20 22:49	JLB	P0C0332
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/17/20 22:49	JLB	P0C0332
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/17/20 22:49	JLB	P0C0332
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	3/17/20 22:49	JLB	P0C0332
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/17/20 22:49	JLB	P0C0332
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/17/20 22:49	JLB	P0C0332
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/17/20 22:49	JLB	P0C0332
Trichloroethylene	**0.29 J**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**3/17/20 22:49**	**JLB**	**P0C0332**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/17/20 22:49	JLB	P0C0332
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/17/20 22:49	JLB	P0C0332

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*104 %*	*75-129*
Toluene-d8	*99 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: Dup-1
Sample ID: 0030166-10
Work Order: 0030166
Time Collected: 03/09/20 14:48
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	0.14 U	ug/L	2.0	0.14	1	8260D SIM	3/13/20 20:15	TBL	P0C0270

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-25S
Sample ID: 0030166-11
Work Order: 0030166
Time Collected: 03/10/20 10:42
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	**0.40** J	**ug/L**	**0.50**	**0.061**	**1**	**8260D**	**3/18/20 18:43**	**JLB**	**P0C0354**
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/18/20 18:43	JLB	P0C0354
1,1,2-Trichloroethane	**0.25** J	**ug/L**	**0.50**	**0.066**	**1**	**8260D**	**3/18/20 18:43**	**JLB**	**P0C0354**
1,1-Dichloroethane	**2.3**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/18/20 18:43**	**JLB**	**P0C0354**
1,1-Dichloroethylene	**18**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/18/20 18:43**	**JLB**	**P0C0354**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/18/20 18:43	JLB	P0C0354
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 18:43	JLB	P0C0354
Acetone	**3.6** J	**ug/L**	**5.0**	**0.31**	**1**	**8260D**	**3/18/20 18:43**	**JLB**	**P0C0354**
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/18/20 18:43	JLB	P0C0354
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 18:43	JLB	P0C0354
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/18/20 18:43	JLB	P0C0354
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/18/20 18:43	JLB	P0C0354
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/18/20 18:43	JLB	P0C0354
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 18:43	JLB	P0C0354
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 18:43	JLB	P0C0354
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/18/20 18:43	JLB	P0C0354
Chloroform	**2.0**	**ug/L**	**0.50**	**0.076**	**1**	**8260D**	**3/18/20 18:43**	**JLB**	**P0C0354**
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 18:43	JLB	P0C0354
cis-1,2-Dichloroethylene	**0.41** J	**ug/L**	**0.50**	**0.056**	**1**	**8260D**	**3/18/20 18:43**	**JLB**	**P0C0354**
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 18:43	JLB	P0C0354
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/18/20 18:43	JLB	P0C0354
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/18/20 18:43	JLB	P0C0354
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 18:43	JLB	P0C0354
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/18/20 18:43	JLB	P0C0354
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/18/20 18:43	JLB	P0C0354
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/18/20 18:43	JLB	P0C0354
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/18/20 18:43	JLB	P0C0354
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/18/20 18:43	JLB	P0C0354
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 18:43	JLB	P0C0354
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/18/20 18:43	JLB	P0C0354
Tetrachloroethylene	**9.8**	**ug/L**	**0.50**	**0.098**	**1**	**8260D**	**3/18/20 18:43**	**JLB**	**P0C0354**
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 18:43	JLB	P0C0354
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/18/20 18:43	JLB	P0C0354
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/18/20 18:43	JLB	P0C0354
Trichloroethylene	**81**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**3/18/20 18:43**	**JLB**	**P0C0354**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/18/20 18:43	JLB	P0C0354
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/18/20 18:43	JLB	P0C0354

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*100 %*	*75-129*
Toluene-d8	*104 %*	*77-123*

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-25S
Sample ID: 0030166-11
Work Order: 0030166
Time Collected: 03/10/20 10:42
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**11**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/13/20 20:40**	**TBL**	**P0C0270**

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-26S
Sample ID: 0030166-12
Work Order: 0030166
Time Collected: 03/09/20 16:27
Time Submitted: 03/11/20 17:45

Volatile Organic Compounds by GC/MS

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1-Trichloroethane	**0.46 J**	**ug/L**	**0.50**	**0.061**	**1**	**8260D**	**3/17/20 23:13**	**JLB**	**P0C0332**
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/17/20 23:13	JLB	P0C0332
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/17/20 23:13	JLB	P0C0332
1,1-Dichloroethane	0.083 U	ug/L	0.50	0.083	1	8260D	3/17/20 23:13	JLB	P0C0332
1,1-Dichloroethylene	**0.81**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/17/20 23:13**	**JLB**	**P0C0332**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/17/20 23:13	JLB	P0C0332
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/17/20 23:13	JLB	P0C0332
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	3/17/20 23:13	JLB	P0C0332
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/17/20 23:13	JLB	P0C0332
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/17/20 23:13	JLB	P0C0332
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/17/20 23:13	JLB	P0C0332
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/17/20 23:13	JLB	P0C0332
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/17/20 23:13	JLB	P0C0332
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/17/20 23:13	JLB	P0C0332
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/17/20 23:13	JLB	P0C0332
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/17/20 23:13	JLB	P0C0332
Chloroform	**0.21 J**	**ug/L**	**0.50**	**0.076**	**1**	**8260D**	**3/17/20 23:13**	**JLB**	**P0C0332**
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/17/20 23:13	JLB	P0C0332
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	3/17/20 23:13	JLB	P0C0332
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/17/20 23:13	JLB	P0C0332
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/17/20 23:13	JLB	P0C0332
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/17/20 23:13	JLB	P0C0332
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/17/20 23:13	JLB	P0C0332
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/17/20 23:13	JLB	P0C0332
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/17/20 23:13	JLB	P0C0332
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/17/20 23:13	JLB	P0C0332
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/17/20 23:13	JLB	P0C0332
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/17/20 23:13	JLB	P0C0332
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/17/20 23:13	JLB	P0C0332
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/17/20 23:13	JLB	P0C0332
Tetrachloroethylene	**7.8**	**ug/L**	**0.50**	**0.098**	**1**	**8260D**	**3/17/20 23:13**	**JLB**	**P0C0332**
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/17/20 23:13	JLB	P0C0332
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/17/20 23:13	JLB	P0C0332
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/17/20 23:13	JLB	P0C0332
Trichloroethylene	**5.8**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**3/17/20 23:13**	**JLB**	**P0C0332**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/17/20 23:13	JLB	P0C0332
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/17/20 23:13	JLB	P0C0332

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*105 %*	*75-129*
Toluene-d8	*97 %*	*77-123*

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-26S
Sample ID: 0030166-12
Work Order: 0030166
Time Collected: 03/09/20 16:27
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	0.14 U	ug/L	2.0	0.14	1	8260D SIM	3/13/20 21:06	TBL	P0C0270

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-27D
Sample ID: 0030166-13
Work Order: 0030166
Time Collected: 03/09/20 16:53
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	**62**	**ug/L**	**5.0**	**0.61**	**10**	**8260D**	**3/18/20 18:19**	**JLB**	**P0C0354**
1,1,2,2-Tetrachloroethane	0.36 U	ug/L	5.0	0.36	10	8260D	3/18/20 18:19	JLB	P0C0354
1,1,2-Trichloroethane	0.66 U	ug/L	5.0	0.66	10	8260D	3/18/20 18:19	JLB	P0C0354
1,1-Dichloroethane	0.83 U	ug/L	5.0	0.83	10	8260D	3/18/20 18:19	JLB	P0C0354
1,1-Dichloroethylene	**120**	**ug/L**	**5.0**	**0.83**	**10**	**8260D**	**3/18/20 18:19**	**JLB**	**P0C0354**
1,2-Dichloroethane	0.66 U	ug/L	5.0	0.66	10	8260D	3/18/20 18:19	JLB	P0C0354
1,2-Dichloropropane	1.1 U	ug/L	5.0	1.1	10	8260D	3/18/20 18:19	JLB	P0C0354
Acetone	3.1 U	ug/L	50	3.1	10	8260D	3/18/20 18:19	JLB	P0C0354
Benzene	0.48 U	ug/L	5.0	0.48	10	8260D	3/18/20 18:19	JLB	P0C0354
Bromodichloromethane	0.62 U	ug/L	5.0	0.62	10	8260D	3/18/20 18:19	JLB	P0C0354
Bromoform	0.40 U	ug/L	10	0.40	10	8260D	3/18/20 18:19	JLB	P0C0354
Bromomethane	1.8 U	ug/L	10	1.8	10	8260D	3/18/20 18:19	JLB	P0C0354
Carbon disulfide	0.75 U	ug/L	50	0.75	10	8260D	3/18/20 18:19	JLB	P0C0354
Carbon Tetrachloride	1.1 U	ug/L	5.0	1.1	10	8260D	3/18/20 18:19	JLB	P0C0354
Chlorobenzene	0.62 U	ug/L	5.0	0.62	10	8260D	3/18/20 18:19	JLB	P0C0354
Chloroethane	2.2 U	ug/L	5.0	2.2	10	8260D	3/18/20 18:19	JLB	P0C0354
Chloroform	**7.7**	**ug/L**	**5.0**	**0.76**	**10**	**8260D**	**3/18/20 18:19**	**JLB**	**P0C0354**
Chloromethane	0.79 U	ug/L	5.0	0.79	10	8260D	3/18/20 18:19	JLB	P0C0354
cis-1,2-Dichloroethylene	0.56 U	ug/L	5.0	0.56	10	8260D	3/18/20 18:19	JLB	P0C0354
cis-1,3-Dichloropropylene	0.79 U	ug/L	5.0	0.79	10	8260D	3/18/20 18:19	JLB	P0C0354
Dibromochloromethane	0.81 U	ug/L	5.0	0.81	10	8260D	3/18/20 18:19	JLB	P0C0354
Dichlorodifluoromethane	1.1 U	ug/L	50	1.1	10	8260D	3/18/20 18:19	JLB	P0C0354
Ethylbenzene	0.61 U	ug/L	5.0	0.61	10	8260D	3/18/20 18:19	JLB	P0C0354
m,p-Xylenes	1.2 U	ug/L	10	1.2	10	8260D	3/18/20 18:19	JLB	P0C0354
Methyl Butyl Ketone (2-Hexanone)	0.65 U	ug/L	50	0.65	10	8260D	3/18/20 18:19	JLB	P0C0354
Methyl Ethyl Ketone (2-Butanone)	2.4 U	ug/L	50	2.4	10	8260D	3/18/20 18:19	JLB	P0C0354
Methyl Isobutyl Ketone	0.78 U	ug/L	50	0.78	10	8260D	3/18/20 18:19	JLB	P0C0354
Methylene Chloride	0.83 U	ug/L	10	0.83	10	8260D	3/18/20 18:19	JLB	P0C0354
o-Xylene	0.44 U	ug/L	5.0	0.44	10	8260D	3/18/20 18:19	JLB	P0C0354
Styrene	0.47 U	ug/L	5.0	0.47	10	8260D	3/18/20 18:19	JLB	P0C0354
Tetrachloroethylene	**780**	**ug/L**	**5.0**	**0.98**	**10**	**8260D**	**3/18/20 18:19**	**JLB**	**P0C0354**
Toluene	0.44 U	ug/L	5.0	0.44	10	8260D	3/18/20 18:19	JLB	P0C0354
trans-1,2-Dichloroethylene	0.94 U	ug/L	5.0	0.94	10	8260D	3/18/20 18:19	JLB	P0C0354
trans-1,3-Dichloropropylene	0.70 U	ug/L	5.0	0.70	10	8260D	3/18/20 18:19	JLB	P0C0354
Trichloroethylene	**670**	**ug/L**	**5.0**	**0.78**	**10**	**8260D**	**3/18/20 18:19**	**JLB**	**P0C0354**
Vinyl chloride	0.97 U	ug/L	5.0	0.97	10	8260D	3/18/20 18:19	JLB	P0C0354
Xylenes, total	1.5 U	ug/L	15	1.5	10	8260D	3/18/20 18:19	JLB	P0C0354

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*100 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-27D
Sample ID: 0030166-13
Work Order: 0030166
Time Collected: 03/09/20 16:53
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**29**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/13/20 21:31**	**TBL**	**P0C0270**

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-33S
Sample ID: 0030166-14
Work Order: 0030166
Time Collected: 03/09/20 16:10
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 14:12	JLB	P0C0354
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/18/20 14:12	JLB	P0C0354
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/18/20 14:12	JLB	P0C0354
1,1-Dichloroethane	0.083 U	ug/L	0.50	0.083	1	8260D	3/18/20 14:12	JLB	P0C0354
1,1-Dichloroethylene	0.083 U	ug/L	0.50	0.083	1	8260D	3/18/20 14:12	JLB	P0C0354
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/18/20 14:12	JLB	P0C0354
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 14:12	JLB	P0C0354
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	3/18/20 14:12	JLB	P0C0354
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/18/20 14:12	JLB	P0C0354
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 14:12	JLB	P0C0354
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/18/20 14:12	JLB	P0C0354
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/18/20 14:12	JLB	P0C0354
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/18/20 14:12	JLB	P0C0354
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 14:12	JLB	P0C0354
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 14:12	JLB	P0C0354
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/18/20 14:12	JLB	P0C0354
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	3/18/20 14:12	JLB	P0C0354
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 14:12	JLB	P0C0354
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	3/18/20 14:12	JLB	P0C0354
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 14:12	JLB	P0C0354
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/18/20 14:12	JLB	P0C0354
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/18/20 14:12	JLB	P0C0354
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 14:12	JLB	P0C0354
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/18/20 14:12	JLB	P0C0354
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/18/20 14:12	JLB	P0C0354
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/18/20 14:12	JLB	P0C0354
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/18/20 14:12	JLB	P0C0354
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/18/20 14:12	JLB	P0C0354
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 14:12	JLB	P0C0354
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/18/20 14:12	JLB	P0C0354
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	3/18/20 14:12	JLB	P0C0354
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 14:12	JLB	P0C0354
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/18/20 14:12	JLB	P0C0354
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/18/20 14:12	JLB	P0C0354
Trichloroethylene	0.078 U	ug/L	0.50	0.078	1	8260D	3/18/20 14:12	JLB	P0C0354
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/18/20 14:12	JLB	P0C0354
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/18/20 14:12	JLB	P0C0354

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*101 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-33S
Sample ID: 0030166-14
Work Order: 0030166
Time Collected: 03/09/20 16:10
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	0.14 U	ug/L	2.0	0.14	1	8260D SIM	3/13/20 21:56	TBL	P0C0270

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-34S
Sample ID: 0030166-15
Work Order: 0030166
Time Collected: 03/10/20 11:57
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 14:36	JLB	P0C0354
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/18/20 14:36	JLB	P0C0354
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/18/20 14:36	JLB	P0C0354
1,1-Dichloroethane	0.083 U	ug/L	0.50	0.083	1	8260D	3/18/20 14:36	JLB	P0C0354
1,1-Dichloroethylene	0.083 U	ug/L	0.50	0.083	1	8260D	3/18/20 14:36	JLB	P0C0354
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/18/20 14:36	JLB	P0C0354
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 14:36	JLB	P0C0354
Acetone	**3.3** J	**ug/L**	**5.0**	**0.31**	**1**	**8260D**	**3/18/20 14:36**	**JLB**	**P0C0354**
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/18/20 14:36	JLB	P0C0354
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 14:36	JLB	P0C0354
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/18/20 14:36	JLB	P0C0354
Bromomethane	**0.20** J	**ug/L**	**1.0**	**0.18**	**1**	**8260D**	**3/18/20 14:36**	**JLB**	**P0C0354**
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/18/20 14:36	JLB	P0C0354
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 14:36	JLB	P0C0354
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 14:36	JLB	P0C0354
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/18/20 14:36	JLB	P0C0354
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	3/18/20 14:36	JLB	P0C0354
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 14:36	JLB	P0C0354
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	3/18/20 14:36	JLB	P0C0354
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 14:36	JLB	P0C0354
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/18/20 14:36	JLB	P0C0354
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/18/20 14:36	JLB	P0C0354
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 14:36	JLB	P0C0354
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/18/20 14:36	JLB	P0C0354
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/18/20 14:36	JLB	P0C0354
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/18/20 14:36	JLB	P0C0354
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/18/20 14:36	JLB	P0C0354
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/18/20 14:36	JLB	P0C0354
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 14:36	JLB	P0C0354
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/18/20 14:36	JLB	P0C0354
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	3/18/20 14:36	JLB	P0C0354
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 14:36	JLB	P0C0354
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/18/20 14:36	JLB	P0C0354
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/18/20 14:36	JLB	P0C0354
Trichloroethylene	0.078 U	ug/L	0.50	0.078	1	8260D	3/18/20 14:36	JLB	P0C0354
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/18/20 14:36	JLB	P0C0354
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/18/20 14:36	JLB	P0C0354

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*102 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-34S
Sample ID: 0030166-15
Work Order: 0030166
Time Collected: 03/10/20 11:57
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	0.14 U	ug/L	2.0	0.14	1	8260D SIM	3/13/20 22:21	TBL	P0C0270

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-35D
Sample ID: 0030166-16
Work Order: 0030166
Time Collected: 03/10/20 12:09
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 15:01	JLB	P0C0354
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/18/20 15:01	JLB	P0C0354
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/18/20 15:01	JLB	P0C0354
1,1-Dichloroethane	**2.6**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/18/20 15:01**	**JLB**	**P0C0354**
1,1-Dichloroethylene	**3.2**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/18/20 15:01**	**JLB**	**P0C0354**
1,2-Dichloroethane	**0.35** J	**ug/L**	**0.50**	**0.066**	**1**	**8260D**	**3/18/20 15:01**	**JLB**	**P0C0354**
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 15:01	JLB	P0C0354
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	3/18/20 15:01	JLB	P0C0354
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/18/20 15:01	JLB	P0C0354
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 15:01	JLB	P0C0354
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/18/20 15:01	JLB	P0C0354
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/18/20 15:01	JLB	P0C0354
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/18/20 15:01	JLB	P0C0354
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 15:01	JLB	P0C0354
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 15:01	JLB	P0C0354
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/18/20 15:01	JLB	P0C0354
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	3/18/20 15:01	JLB	P0C0354
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 15:01	JLB	P0C0354
cis-1,2-Dichloroethylene	**2.3**	**ug/L**	**0.50**	**0.056**	**1**	**8260D**	**3/18/20 15:01**	**JLB**	**P0C0354**
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 15:01	JLB	P0C0354
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/18/20 15:01	JLB	P0C0354
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/18/20 15:01	JLB	P0C0354
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 15:01	JLB	P0C0354
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/18/20 15:01	JLB	P0C0354
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/18/20 15:01	JLB	P0C0354
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/18/20 15:01	JLB	P0C0354
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/18/20 15:01	JLB	P0C0354
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/18/20 15:01	JLB	P0C0354
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 15:01	JLB	P0C0354
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/18/20 15:01	JLB	P0C0354
Tetrachloroethylene	**0.68**	**ug/L**	**0.50**	**0.098**	**1**	**8260D**	**3/18/20 15:01**	**JLB**	**P0C0354**
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 15:01	JLB	P0C0354
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/18/20 15:01	JLB	P0C0354
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/18/20 15:01	JLB	P0C0354
Trichloroethylene	**3.8**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**3/18/20 15:01**	**JLB**	**P0C0354**
Vinyl chloride	**37**	**ug/L**	**0.50**	**0.097**	**1**	**8260D**	**3/18/20 15:01**	**JLB**	**P0C0354**
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/18/20 15:01	JLB	P0C0354

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*100 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-35D
Sample ID: 0030166-16
Work Order: 0030166
Time Collected: 03/10/20 12:09
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**13**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/13/20 22:46**	**TBL**	**P0C0270**

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-36S
Sample ID: 0030166-17
Work Order: 0030166
Time Collected: 03/10/20 13:12
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 17:54	JLB	P0C0354
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/18/20 17:54	JLB	P0C0354
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/18/20 17:54	JLB	P0C0354
1,1-Dichloroethane	**2.1**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/18/20 17:54**	**JLB**	**P0C0354**
1,1-Dichloroethylene	**55**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/18/20 17:54**	**JLB**	**P0C0354**
1,2-Dichloroethane	**0.41** J	**ug/L**	**0.50**	**0.066**	**1**	**8260D**	**3/18/20 17:54**	**JLB**	**P0C0354**
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 17:54	JLB	P0C0354
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	3/18/20 17:54	JLB	P0C0354
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/18/20 17:54	JLB	P0C0354
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 17:54	JLB	P0C0354
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/18/20 17:54	JLB	P0C0354
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/18/20 17:54	JLB	P0C0354
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/18/20 17:54	JLB	P0C0354
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 17:54	JLB	P0C0354
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 17:54	JLB	P0C0354
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/18/20 17:54	JLB	P0C0354
Chloroform	**0.36** J	**ug/L**	**0.50**	**0.076**	**1**	**8260D**	**3/18/20 17:54**	**JLB**	**P0C0354**
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 17:54	JLB	P0C0354
cis-1,2-Dichloroethylene	**1.2**	**ug/L**	**0.50**	**0.056**	**1**	**8260D**	**3/18/20 17:54**	**JLB**	**P0C0354**
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 17:54	JLB	P0C0354
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/18/20 17:54	JLB	P0C0354
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/18/20 17:54	JLB	P0C0354
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 17:54	JLB	P0C0354
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/18/20 17:54	JLB	P0C0354
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/18/20 17:54	JLB	P0C0354
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/18/20 17:54	JLB	P0C0354
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/18/20 17:54	JLB	P0C0354
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/18/20 17:54	JLB	P0C0354
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 17:54	JLB	P0C0354
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/18/20 17:54	JLB	P0C0354
Tetrachloroethylene	**3.4**	**ug/L**	**0.50**	**0.098**	**1**	**8260D**	**3/18/20 17:54**	**JLB**	**P0C0354**
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 17:54	JLB	P0C0354
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/18/20 17:54	JLB	P0C0354
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/18/20 17:54	JLB	P0C0354
Trichloroethylene	**46**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**3/18/20 17:54**	**JLB**	**P0C0354**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/18/20 17:54	JLB	P0C0354
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/18/20 17:54	JLB	P0C0354

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*100 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-36S
Sample ID: 0030166-17
Work Order: 0030166
Time Collected: 03/10/20 13:12
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**9.0**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/13/20 23:11**	**TBL**	**P0C0270**

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: PZ-4S
Sample ID: 0030166-18
Work Order: 0030166
Time Collected: 03/10/20 11:31
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 15:26	JLB	P0C0354
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/18/20 15:26	JLB	P0C0354
1,1,2-Trichloroethane	**0.32 J**	**ug/L**	**0.50**	**0.066**	**1**	**8260D**	**3/18/20 15:26**	**JLB**	**P0C0354**
1,1-Dichloroethane	**0.50**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/18/20 15:26**	**JLB**	**P0C0354**
1,1-Dichloroethylene	**15**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/18/20 15:26**	**JLB**	**P0C0354**
1,2-Dichloroethane	**0.20 J**	**ug/L**	**0.50**	**0.066**	**1**	**8260D**	**3/18/20 15:26**	**JLB**	**P0C0354**
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 15:26	JLB	P0C0354
Acetone	**2.9 J**	**ug/L**	**5.0**	**0.31**	**1**	**8260D**	**3/18/20 15:26**	**JLB**	**P0C0354**
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/18/20 15:26	JLB	P0C0354
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 15:26	JLB	P0C0354
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/18/20 15:26	JLB	P0C0354
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/18/20 15:26	JLB	P0C0354
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/18/20 15:26	JLB	P0C0354
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 15:26	JLB	P0C0354
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 15:26	JLB	P0C0354
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/18/20 15:26	JLB	P0C0354
Chloroform	**0.21 J**	**ug/L**	**0.50**	**0.076**	**1**	**8260D**	**3/18/20 15:26**	**JLB**	**P0C0354**
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 15:26	JLB	P0C0354
cis-1,2-Dichloroethylene	**0.25 J**	**ug/L**	**0.50**	**0.056**	**1**	**8260D**	**3/18/20 15:26**	**JLB**	**P0C0354**
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 15:26	JLB	P0C0354
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/18/20 15:26	JLB	P0C0354
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/18/20 15:26	JLB	P0C0354
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 15:26	JLB	P0C0354
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/18/20 15:26	JLB	P0C0354
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/18/20 15:26	JLB	P0C0354
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/18/20 15:26	JLB	P0C0354
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/18/20 15:26	JLB	P0C0354
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/18/20 15:26	JLB	P0C0354
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 15:26	JLB	P0C0354
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/18/20 15:26	JLB	P0C0354
Tetrachloroethylene	**0.27 J**	**ug/L**	**0.50**	**0.098**	**1**	**8260D**	**3/18/20 15:26**	**JLB**	**P0C0354**
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 15:26	JLB	P0C0354
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/18/20 15:26	JLB	P0C0354
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/18/20 15:26	JLB	P0C0354
Trichloroethylene	**6.0**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**3/18/20 15:26**	**JLB**	**P0C0354**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/18/20 15:26	JLB	P0C0354
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/18/20 15:26	JLB	P0C0354

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*100 %*	*80-124*
Dibromofluoromethane	*101 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

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Laboratory Report

03/23/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: PZ-4S
Sample ID: 0030166-18
Work Order: 0030166
Time Collected: 03/10/20 11:31
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**5.2**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/13/20 23:36**	**TBL**	**P0C0270**

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: PZ-29S
Sample ID: 0030166-19
Work Order: 0030166
Time Collected: 03/10/20 11:45
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 15:50	JLB	P0C0354
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/18/20 15:50	JLB	P0C0354
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/18/20 15:50	JLB	P0C0354
1,1-Dichloroethane	0.083 U	ug/L	0.50	0.083	1	8260D	3/18/20 15:50	JLB	P0C0354
1,1-Dichloroethylene	**2.2**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/18/20 15:50**	**JLB**	**P0C0354**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/18/20 15:50	JLB	P0C0354
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 15:50	JLB	P0C0354
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	3/18/20 15:50	JLB	P0C0354
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/18/20 15:50	JLB	P0C0354
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 15:50	JLB	P0C0354
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/18/20 15:50	JLB	P0C0354
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/18/20 15:50	JLB	P0C0354
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/18/20 15:50	JLB	P0C0354
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 15:50	JLB	P0C0354
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 15:50	JLB	P0C0354
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/18/20 15:50	JLB	P0C0354
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	3/18/20 15:50	JLB	P0C0354
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 15:50	JLB	P0C0354
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	3/18/20 15:50	JLB	P0C0354
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 15:50	JLB	P0C0354
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/18/20 15:50	JLB	P0C0354
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/18/20 15:50	JLB	P0C0354
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 15:50	JLB	P0C0354
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/18/20 15:50	JLB	P0C0354
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/18/20 15:50	JLB	P0C0354
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/18/20 15:50	JLB	P0C0354
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/18/20 15:50	JLB	P0C0354
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/18/20 15:50	JLB	P0C0354
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 15:50	JLB	P0C0354
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/18/20 15:50	JLB	P0C0354
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	3/18/20 15:50	JLB	P0C0354
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 15:50	JLB	P0C0354
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/18/20 15:50	JLB	P0C0354
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/18/20 15:50	JLB	P0C0354
Trichloroethylene	**2.5**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**3/18/20 15:50**	**JLB**	**P0C0354**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/18/20 15:50	JLB	P0C0354
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/18/20 15:50	JLB	P0C0354

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*102 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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Laboratory Report

03/23/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: PZ-29S
Sample ID: 0030166-19
Work Order: 0030166
Time Collected: 03/10/20 11:45
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	0.14 U	ug/L	2.0	0.14	1	8260D SIM	3/14/20 0:01	TBL	P0C0270

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: PZ-31S
Sample ID: 0030166-20
Work Order: 0030166
Time Collected: 03/10/20 11:00
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 16:40	JLB	P0C0354
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/18/20 16:40	JLB	P0C0354
1,1,2-Trichloroethane	**1.1**	**ug/L**	**0.50**	**0.066**	**1**	**8260D**	**3/18/20 16:40**	**JLB**	**P0C0354**
1,1-Dichloroethane	0.083 U	ug/L	0.50	0.083	1	8260D	3/18/20 16:40	JLB	P0C0354
1,1-Dichloroethylene	**24**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/18/20 16:40**	**JLB**	**P0C0354**
1,2-Dichloroethane	**0.25** J	**ug/L**	**0.50**	**0.066**	**1**	**8260D**	**3/18/20 16:40**	**JLB**	**P0C0354**
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 16:40	JLB	P0C0354
Acetone	**4.0** J	**ug/L**	**5.0**	**0.31**	**1**	**8260D**	**3/18/20 16:40**	**JLB**	**P0C0354**
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/18/20 16:40	JLB	P0C0354
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 16:40	JLB	P0C0354
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/18/20 16:40	JLB	P0C0354
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/18/20 16:40	JLB	P0C0354
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/18/20 16:40	JLB	P0C0354
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 16:40	JLB	P0C0354
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 16:40	JLB	P0C0354
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/18/20 16:40	JLB	P0C0354
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	3/18/20 16:40	JLB	P0C0354
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 16:40	JLB	P0C0354
cis-1,2-Dichloroethylene	**0.44** J	**ug/L**	**0.50**	**0.056**	**1**	**8260D**	**3/18/20 16:40**	**JLB**	**P0C0354**
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 16:40	JLB	P0C0354
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/18/20 16:40	JLB	P0C0354
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/18/20 16:40	JLB	P0C0354
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 16:40	JLB	P0C0354
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/18/20 16:40	JLB	P0C0354
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/18/20 16:40	JLB	P0C0354
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/18/20 16:40	JLB	P0C0354
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/18/20 16:40	JLB	P0C0354
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/18/20 16:40	JLB	P0C0354
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 16:40	JLB	P0C0354
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/18/20 16:40	JLB	P0C0354
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	3/18/20 16:40	JLB	P0C0354
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 16:40	JLB	P0C0354
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/18/20 16:40	JLB	P0C0354
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/18/20 16:40	JLB	P0C0354
Trichloroethylene	**0.67**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**3/18/20 16:40**	**JLB**	**P0C0354**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/18/20 16:40	JLB	P0C0354
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/18/20 16:40	JLB	P0C0354

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*100 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: PZ-31S
Sample ID: 0030166-20
Work Order: 0030166
Time Collected: 03/10/20 11:00
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**1.3** J	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/14/20 0:26**	**TBL**	**P0C0270**

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: EW-4D
Sample ID: 0030166-21
Work Order: 0030166
Time Collected: 03/10/20 11:20
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	**1.8**	**ug/L**	**0.50**	**0.061**	**1**	**8260D**	**3/18/20 19:08**	**JLB**	**P0C0354**
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/18/20 19:08	JLB	P0C0354
1,1,2-Trichloroethane	**0.27** J	**ug/L**	**0.50**	**0.066**	**1**	**8260D**	**3/18/20 19:08**	**JLB**	**P0C0354**
1,1-Dichloroethane	**0.83**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/18/20 19:08**	**JLB**	**P0C0354**
1,1-Dichloroethylene	**59**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/18/20 19:08**	**JLB**	**P0C0354**
1,2-Dichloroethane	**0.61**	**ug/L**	**0.50**	**0.066**	**1**	**8260D**	**3/18/20 19:08**	**JLB**	**P0C0354**
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 19:08	JLB	P0C0354
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	3/18/20 19:08	JLB	P0C0354
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/18/20 19:08	JLB	P0C0354
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 19:08	JLB	P0C0354
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/18/20 19:08	JLB	P0C0354
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/18/20 19:08	JLB	P0C0354
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/18/20 19:08	JLB	P0C0354
Carbon Tetrachloride	**1.5**	**ug/L**	**0.50**	**0.11**	**1**	**8260D**	**3/18/20 19:08**	**JLB**	**P0C0354**
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 19:08	JLB	P0C0354
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/18/20 19:08	JLB	P0C0354
Chloroform	**57**	**ug/L**	**0.50**	**0.076**	**1**	**8260D**	**3/18/20 19:08**	**JLB**	**P0C0354**
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 19:08	JLB	P0C0354
cis-1,2-Dichloroethylene	**0.66**	**ug/L**	**0.50**	**0.056**	**1**	**8260D**	**3/18/20 19:08**	**JLB**	**P0C0354**
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 19:08	JLB	P0C0354
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/18/20 19:08	JLB	P0C0354
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/18/20 19:08	JLB	P0C0354
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 19:08	JLB	P0C0354
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/18/20 19:08	JLB	P0C0354
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/18/20 19:08	JLB	P0C0354
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/18/20 19:08	JLB	P0C0354
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/18/20 19:08	JLB	P0C0354
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/18/20 19:08	JLB	P0C0354
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 19:08	JLB	P0C0354
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/18/20 19:08	JLB	P0C0354
Tetrachloroethylene	**25**	**ug/L**	**0.50**	**0.098**	**1**	**8260D**	**3/18/20 19:08**	**JLB**	**P0C0354**
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 19:08	JLB	P0C0354
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/18/20 19:08	JLB	P0C0354
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/18/20 19:08	JLB	P0C0354
Trichloroethylene	**120**	**ug/L**	**5.0**	**0.78**	**10**	**8260D**	**3/18/20 19:33**	**JLB**	**P0C0354**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/18/20 19:08	JLB	P0C0354
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/18/20 19:08	JLB	P0C0354

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*100 %*	*80-124*
Dibromofluoromethane	*101 %*	*75-129*
Toluene-d8	*104 %*	*77-123*

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: EW-4D
Sample ID: 0030166-21
Work Order: 0030166
Time Collected: 03/10/20 11:20
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**20**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/16/20 18:45**	**TBL**	**P0C0297**

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: EW-32S
Sample ID: 0030166-22
Work Order: 0030166
Time Collected: 03/09/20 16:44
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	**110**	**ug/L**	**50**	**6.1**	**100**	**8260D**	**3/18/20 17:05**	**JLB**	**P0C0354**
1,1,2,2-Tetrachloroethane	3.6 U	ug/L	50	3.6	100	8260D	3/18/20 17:05	JLB	P0C0354
1,1,2-Trichloroethane	6.6 U	ug/L	50	6.6	100	8260D	3/18/20 17:05	JLB	P0C0354
1,1-Dichloroethane	8.3 U	ug/L	50	8.3	100	8260D	3/18/20 17:05	JLB	P0C0354
1,1-Dichloroethylene	**180**	**ug/L**	**50**	**8.3**	**100**	**8260D**	**3/18/20 17:05**	**JLB**	**P0C0354**
1,2-Dichloroethane	6.6 U	ug/L	50	6.6	100	8260D	3/18/20 17:05	JLB	P0C0354
1,2-Dichloropropane	11 U	ug/L	50	11	100	8260D	3/18/20 17:05	JLB	P0C0354
Acetone	31 U	ug/L	500	31	100	8260D	3/18/20 17:05	JLB	P0C0354
Benzene	4.8 U	ug/L	50	4.8	100	8260D	3/18/20 17:05	JLB	P0C0354
Bromodichloromethane	6.2 U	ug/L	50	6.2	100	8260D	3/18/20 17:05	JLB	P0C0354
Bromoform	4.0 U	ug/L	100	4.0	100	8260D	3/18/20 17:05	JLB	P0C0354
Bromomethane	18 U	ug/L	100	18	100	8260D	3/18/20 17:05	JLB	P0C0354
Carbon disulfide	7.5 U	ug/L	500	7.5	100	8260D	3/18/20 17:05	JLB	P0C0354
Carbon Tetrachloride	11 U	ug/L	50	11	100	8260D	3/18/20 17:05	JLB	P0C0354
Chlorobenzene	6.2 U	ug/L	50	6.2	100	8260D	3/18/20 17:05	JLB	P0C0354
Chloroethane	22 U	ug/L	50	22	100	8260D	3/18/20 17:05	JLB	P0C0354
Chloroform	7.6 U	ug/L	50	7.6	100	8260D	3/18/20 17:05	JLB	P0C0354
Chloromethane	7.9 U	ug/L	50	7.9	100	8260D	3/18/20 17:05	JLB	P0C0354
cis-1,2-Dichloroethylene	5.6 U	ug/L	50	5.6	100	8260D	3/18/20 17:05	JLB	P0C0354
cis-1,3-Dichloropropylene	7.9 U	ug/L	50	7.9	100	8260D	3/18/20 17:05	JLB	P0C0354
Dibromochloromethane	8.1 U	ug/L	50	8.1	100	8260D	3/18/20 17:05	JLB	P0C0354
Dichlorodifluoromethane	11 U	ug/L	500	11	100	8260D	3/18/20 17:05	JLB	P0C0354
Ethylbenzene	6.1 U	ug/L	50	6.1	100	8260D	3/18/20 17:05	JLB	P0C0354
m,p-Xylenes	12 U	ug/L	100	12	100	8260D	3/18/20 17:05	JLB	P0C0354
Methyl Butyl Ketone (2-Hexanone)	6.5 U	ug/L	500	6.5	100	8260D	3/18/20 17:05	JLB	P0C0354
Methyl Ethyl Ketone (2-Butanone)	24 U	ug/L	500	24	100	8260D	3/18/20 17:05	JLB	P0C0354
Methyl Isobutyl Ketone	7.8 U	ug/L	500	7.8	100	8260D	3/18/20 17:05	JLB	P0C0354
Methylene Chloride	8.3 U	ug/L	100	8.3	100	8260D	3/18/20 17:05	JLB	P0C0354
o-Xylene	4.4 U	ug/L	50	4.4	100	8260D	3/18/20 17:05	JLB	P0C0354
Styrene	4.7 U	ug/L	50	4.7	100	8260D	3/18/20 17:05	JLB	P0C0354
Tetrachloroethylene	**1400**	**ug/L**	**50**	**9.8**	**100**	**8260D**	**3/18/20 17:05**	**JLB**	**P0C0354**
Toluene	4.4 U	ug/L	50	4.4	100	8260D	3/18/20 17:05	JLB	P0C0354
trans-1,2-Dichloroethylene	9.4 U	ug/L	50	9.4	100	8260D	3/18/20 17:05	JLB	P0C0354
trans-1,3-Dichloropropylene	7.0 U	ug/L	50	7.0	100	8260D	3/18/20 17:05	JLB	P0C0354
Trichloroethylene	**2500**	**ug/L**	**50**	**7.8**	**100**	**8260D**	**3/18/20 17:05**	**JLB**	**P0C0354**
Vinyl chloride	9.7 U	ug/L	50	9.7	100	8260D	3/18/20 17:05	JLB	P0C0354
Xylenes, total	15 U	ug/L	150	15	100	8260D	3/18/20 17:05	JLB	P0C0354

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*100 %*	*80-124*
Dibromofluoromethane	*100 %*	*75-129*
Toluene-d8	*102 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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Laboratory Report

03/23/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: EW-32S
Sample ID: 0030166-22
Work Order: 0030166
Time Collected: 03/09/20 16:44
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	**530**	**ug/L**	**8.0**	**0.56**	**4**	**8260D SIM**	**3/17/20 12:22**	**TBL**	**P0C0308**

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-2D
Sample ID: 0030166-23
Work Order: 0030166
Time Collected: 03/10/20 13:36
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	**2.1**	**ug/L**	**0.50**	**0.061**	**1**	**8260D**	**3/18/20 15:40**	**JLB**	**P0C0355**
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/18/20 15:40	JLB	P0C0355
1,1,2-Trichloroethane	**0.61**	**ug/L**	**0.50**	**0.066**	**1**	**8260D**	**3/18/20 15:40**	**JLB**	**P0C0355**
1,1-Dichloroethane	**120**	**ug/L**	**5.0**	**0.83**	**10**	**8260D**	**3/18/20 16:04**	**JLB**	**P0C0355**
1,1-Dichloroethylene	**260**	**ug/L**	**5.0**	**0.83**	**10**	**8260D**	**3/18/20 16:04**	**JLB**	**P0C0355**
1,2-Dichloroethane	**2.8**	**ug/L**	**0.50**	**0.066**	**1**	**8260D**	**3/18/20 15:40**	**JLB**	**P0C0355**
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 15:40	JLB	P0C0355
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	3/18/20 15:40	JLB	P0C0355
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/18/20 15:40	JLB	P0C0355
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 15:40	JLB	P0C0355
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/18/20 15:40	JLB	P0C0355
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/18/20 15:40	JLB	P0C0355
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/18/20 15:40	JLB	P0C0355
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 15:40	JLB	P0C0355
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 15:40	JLB	P0C0355
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/18/20 15:40	JLB	P0C0355
Chloroform	**6.0**	**ug/L**	**0.50**	**0.076**	**1**	**8260D**	**3/18/20 15:40**	**JLB**	**P0C0355**
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 15:40	JLB	P0C0355
cis-1,2-Dichloroethylene	**8.2**	**ug/L**	**0.50**	**0.056**	**1**	**8260D**	**3/18/20 15:40**	**JLB**	**P0C0355**
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 15:40	JLB	P0C0355
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/18/20 15:40	JLB	P0C0355
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/18/20 15:40	JLB	P0C0355
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 15:40	JLB	P0C0355
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/18/20 15:40	JLB	P0C0355
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/18/20 15:40	JLB	P0C0355
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/18/20 15:40	JLB	P0C0355
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/18/20 15:40	JLB	P0C0355
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/18/20 15:40	JLB	P0C0355
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 15:40	JLB	P0C0355
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/18/20 15:40	JLB	P0C0355
Tetrachloroethylene	**1.2**	**ug/L**	**0.50**	**0.098**	**1**	**8260D**	**3/18/20 15:40**	**JLB**	**P0C0355**
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 15:40	JLB	P0C0355
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/18/20 15:40	JLB	P0C0355
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/18/20 15:40	JLB	P0C0355
Trichloroethylene	**54**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**3/18/20 15:40**	**JLB**	**P0C0355**
Vinyl chloride	**0.57**	**ug/L**	**0.50**	**0.097**	**1**	**8260D**	**3/18/20 15:40**	**JLB**	**P0C0355**
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/18/20 15:40	JLB	P0C0355

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*100 %*	*80-124*
Dibromofluoromethane	*105 %*	*75-129*
Toluene-d8	*98 %*	*77-123*

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-2D
Sample ID: 0030166-23
Work Order: 0030166
Time Collected: 03/10/20 13:36
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**21**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/16/20 19:36**	**TBL**	**P0C0297**

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-13S
Sample ID: 0030166-24
Work Order: 0030166
Time Collected: 03/10/20 14:20
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 16:29	JLB	P0C0355
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/18/20 16:29	JLB	P0C0355
1,1,2-Trichloroethane	**0.72**	**ug/L**	**0.50**	**0.066**	**1**	**8260D**	**3/18/20 16:29**	**JLB**	**P0C0355**
1,1-Dichloroethane	**68**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/18/20 16:29**	**JLB**	**P0C0355**
1,1-Dichloroethylene	**93**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/18/20 16:29**	**JLB**	**P0C0355**
1,2-Dichloroethane	**0.86**	**ug/L**	**0.50**	**0.066**	**1**	**8260D**	**3/18/20 16:29**	**JLB**	**P0C0355**
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 16:29	JLB	P0C0355
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	3/18/20 16:29	JLB	P0C0355
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/18/20 16:29	JLB	P0C0355
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 16:29	JLB	P0C0355
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/18/20 16:29	JLB	P0C0355
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/18/20 16:29	JLB	P0C0355
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/18/20 16:29	JLB	P0C0355
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 16:29	JLB	P0C0355
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 16:29	JLB	P0C0355
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/18/20 16:29	JLB	P0C0355
Chloroform	**4.9**	**ug/L**	**0.50**	**0.076**	**1**	**8260D**	**3/18/20 16:29**	**JLB**	**P0C0355**
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 16:29	JLB	P0C0355
cis-1,2-Dichloroethylene	**21**	**ug/L**	**0.50**	**0.056**	**1**	**8260D**	**3/18/20 16:29**	**JLB**	**P0C0355**
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 16:29	JLB	P0C0355
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/18/20 16:29	JLB	P0C0355
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/18/20 16:29	JLB	P0C0355
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 16:29	JLB	P0C0355
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/18/20 16:29	JLB	P0C0355
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/18/20 16:29	JLB	P0C0355
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/18/20 16:29	JLB	P0C0355
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/18/20 16:29	JLB	P0C0355
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/18/20 16:29	JLB	P0C0355
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 16:29	JLB	P0C0355
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/18/20 16:29	JLB	P0C0355
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	3/18/20 16:29	JLB	P0C0355
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 16:29	JLB	P0C0355
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/18/20 16:29	JLB	P0C0355
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/18/20 16:29	JLB	P0C0355
Trichloroethylene	**29**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**3/18/20 16:29**	**JLB**	**P0C0355**
Vinyl chloride	**0.24** J	**ug/L**	**0.50**	**0.097**	**1**	**8260D**	**3/18/20 16:29**	**JLB**	**P0C0355**
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/18/20 16:29	JLB	P0C0355

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*99 %*	*80-124*
Dibromofluoromethane	*104 %*	*75-129*
Toluene-d8	*99 %*	*77-123*

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-13S
Sample ID: 0030166-24
Work Order: 0030166
Time Collected: 03/10/20 14:20
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**21**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/16/20 20:01**	**TBL**	**P0C0297**

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-13D
Sample ID: 0030166-25
Work Order: 0030166
Time Collected: 03/10/20 14:29
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	**3.1** J	**ug/L**	**5.0**	**0.61**	**10**	**8260D**	**3/18/20 19:46**	**JLB**	**P0C0355**
1,1,2,2-Tetrachloroethane	0.36 U	ug/L	5.0	0.36	10	8260D	3/18/20 19:46	JLB	P0C0355
1,1,2-Trichloroethane	**3.9** J	**ug/L**	**5.0**	**0.66**	**10**	**8260D**	**3/18/20 19:46**	**JLB**	**P0C0355**
1,1-Dichloroethane	**22**	**ug/L**	**5.0**	**0.83**	**10**	**8260D**	**3/18/20 19:46**	**JLB**	**P0C0355**
1,1-Dichloroethylene	**1800**	**ug/L**	**50**	**8.3**	**100**	**8260D**	**3/18/20 20:10**	**JLB**	**P0C0355**
1,2-Dichloroethane	**6.8**	**ug/L**	**5.0**	**0.66**	**10**	**8260D**	**3/18/20 19:46**	**JLB**	**P0C0355**
1,2-Dichloropropane	1.1 U	ug/L	5.0	1.1	10	8260D	3/18/20 19:46	JLB	P0C0355
Acetone	3.1 U	ug/L	50	3.1	10	8260D	3/18/20 19:46	JLB	P0C0355
Benzene	0.48 U	ug/L	5.0	0.48	10	8260D	3/18/20 19:46	JLB	P0C0355
Bromodichloromethane	0.62 U	ug/L	5.0	0.62	10	8260D	3/18/20 19:46	JLB	P0C0355
Bromoform	0.40 U	ug/L	10	0.40	10	8260D	3/18/20 19:46	JLB	P0C0355
Bromomethane	1.8 U	ug/L	10	1.8	10	8260D	3/18/20 19:46	JLB	P0C0355
Carbon disulfide	0.75 U	ug/L	50	0.75	10	8260D	3/18/20 19:46	JLB	P0C0355
Carbon Tetrachloride	1.1 U	ug/L	5.0	1.1	10	8260D	3/18/20 19:46	JLB	P0C0355
Chlorobenzene	0.62 U	ug/L	5.0	0.62	10	8260D	3/18/20 19:46	JLB	P0C0355
Chloroethane	2.2 U	ug/L	5.0	2.2	10	8260D	3/18/20 19:46	JLB	P0C0355
Chloroform	**47**	**ug/L**	**5.0**	**0.76**	**10**	**8260D**	**3/18/20 19:46**	**JLB**	**P0C0355**
Chloromethane	0.79 U	ug/L	5.0	0.79	10	8260D	3/18/20 19:46	JLB	P0C0355
cis-1,2-Dichloroethylene	**7.6**	**ug/L**	**5.0**	**0.56**	**10**	**8260D**	**3/18/20 19:46**	**JLB**	**P0C0355**
cis-1,3-Dichloropropylene	0.79 U	ug/L	5.0	0.79	10	8260D	3/18/20 19:46	JLB	P0C0355
Dibromochloromethane	0.81 U	ug/L	5.0	0.81	10	8260D	3/18/20 19:46	JLB	P0C0355
Dichlorodifluoromethane	1.1 U	ug/L	50	1.1	10	8260D	3/18/20 19:46	JLB	P0C0355
Ethylbenzene	0.61 U	ug/L	5.0	0.61	10	8260D	3/18/20 19:46	JLB	P0C0355
m,p-Xylenes	1.2 U	ug/L	10	1.2	10	8260D	3/18/20 19:46	JLB	P0C0355
Methyl Butyl Ketone (2-Hexanone)	0.65 U	ug/L	50	0.65	10	8260D	3/18/20 19:46	JLB	P0C0355
Methyl Ethyl Ketone (2-Butanone)	2.4 U	ug/L	50	2.4	10	8260D	3/18/20 19:46	JLB	P0C0355
Methyl Isobutyl Ketone	0.78 U	ug/L	50	0.78	10	8260D	3/18/20 19:46	JLB	P0C0355
Methylene Chloride	0.83 U	ug/L	10	0.83	10	8260D	3/18/20 19:46	JLB	P0C0355
o-Xylene	0.44 U	ug/L	5.0	0.44	10	8260D	3/18/20 19:46	JLB	P0C0355
Styrene	0.47 U	ug/L	5.0	0.47	10	8260D	3/18/20 19:46	JLB	P0C0355
Tetrachloroethylene	**2.2** J	**ug/L**	**5.0**	**0.98**	**10**	**8260D**	**3/18/20 19:46**	**JLB**	**P0C0355**
Toluene	0.44 U	ug/L	5.0	0.44	10	8260D	3/18/20 19:46	JLB	P0C0355
trans-1,2-Dichloroethylene	0.94 U	ug/L	5.0	0.94	10	8260D	3/18/20 19:46	JLB	P0C0355
trans-1,3-Dichloropropylene	0.70 U	ug/L	5.0	0.70	10	8260D	3/18/20 19:46	JLB	P0C0355
Trichloroethylene	**620**	**ug/L**	**5.0**	**0.78**	**10**	**8260D**	**3/18/20 19:46**	**JLB**	**P0C0355**
Vinyl chloride	0.97 U	ug/L	5.0	0.97	10	8260D	3/18/20 19:46	JLB	P0C0355
Xylenes, total	1.5 U	ug/L	15	1.5	10	8260D	3/18/20 19:46	JLB	P0C0355

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*98 %*	*80-124*
Dibromofluoromethane	*103 %*	*75-129*
Toluene-d8	*98 %*	*77-123*

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-13D
Sample ID: 0030166-25
Work Order: 0030166
Time Collected: 03/10/20 14:29
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**330**	**ug/L**	**4.0**	**0.28**	**2**	**8260D SIM**	**3/17/20 11:57**	**TBL**	**P0C0308**

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: EW-1C
Sample ID: 0030166-26
Work Order: 0030166
Time Collected: 03/10/20 13:47
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	**43**	**ug/L**	**5.0**	**0.61**	**10**	**8260D**	**3/18/20 15:15**	**JLB**	**P0C0355**
1,1,2,2-Tetrachloroethane	0.36 U	ug/L	5.0	0.36	10	8260D	3/18/20 15:15	JLB	P0C0355
1,1,2-Trichloroethane	0.66 U	ug/L	5.0	0.66	10	8260D	3/18/20 15:15	JLB	P0C0355
1,1-Dichloroethane	**170**	**ug/L**	**5.0**	**0.83**	**10**	**8260D**	**3/18/20 15:15**	**JLB**	**P0C0355**
1,1-Dichloroethylene	**320**	**ug/L**	**5.0**	**0.83**	**10**	**8260D**	**3/18/20 15:15**	**JLB**	**P0C0355**
1,2-Dichloroethane	**3.3** J	**ug/L**	**5.0**	**0.66**	**10**	**8260D**	**3/18/20 15:15**	**JLB**	**P0C0355**
1,2-Dichloropropane	1.1 U	ug/L	5.0	1.1	10	8260D	3/18/20 15:15	JLB	P0C0355
Acetone	3.1 U	ug/L	50	3.1	10	8260D	3/18/20 15:15	JLB	P0C0355
Benzene	0.48 U	ug/L	5.0	0.48	10	8260D	3/18/20 15:15	JLB	P0C0355
Bromodichloromethane	0.62 U	ug/L	5.0	0.62	10	8260D	3/18/20 15:15	JLB	P0C0355
Bromoform	0.40 U	ug/L	10	0.40	10	8260D	3/18/20 15:15	JLB	P0C0355
Bromomethane	1.8 U	ug/L	10	1.8	10	8260D	3/18/20 15:15	JLB	P0C0355
Carbon disulfide	0.75 U	ug/L	50	0.75	10	8260D	3/18/20 15:15	JLB	P0C0355
Carbon Tetrachloride	1.1 U	ug/L	5.0	1.1	10	8260D	3/18/20 15:15	JLB	P0C0355
Chlorobenzene	0.62 U	ug/L	5.0	0.62	10	8260D	3/18/20 15:15	JLB	P0C0355
Chloroethane	2.2 U	ug/L	5.0	2.2	10	8260D	3/18/20 15:15	JLB	P0C0355
Chloroform	**5.2**	**ug/L**	**5.0**	**0.76**	**10**	**8260D**	**3/18/20 15:15**	**JLB**	**P0C0355**
Chloromethane	0.79 U	ug/L	5.0	0.79	10	8260D	3/18/20 15:15	JLB	P0C0355
cis-1,2-Dichloroethylene	**24**	**ug/L**	**5.0**	**0.56**	**10**	**8260D**	**3/18/20 15:15**	**JLB**	**P0C0355**
cis-1,3-Dichloropropylene	0.79 U	ug/L	5.0	0.79	10	8260D	3/18/20 15:15	JLB	P0C0355
Dibromochloromethane	0.81 U	ug/L	5.0	0.81	10	8260D	3/18/20 15:15	JLB	P0C0355
Dichlorodifluoromethane	1.1 U	ug/L	50	1.1	10	8260D	3/18/20 15:15	JLB	P0C0355
Ethylbenzene	0.61 U	ug/L	5.0	0.61	10	8260D	3/18/20 15:15	JLB	P0C0355
m,p-Xylenes	1.2 U	ug/L	10	1.2	10	8260D	3/18/20 15:15	JLB	P0C0355
Methyl Butyl Ketone (2-Hexanone)	0.65 U	ug/L	50	0.65	10	8260D	3/18/20 15:15	JLB	P0C0355
Methyl Ethyl Ketone (2-Butanone)	2.4 U	ug/L	50	2.4	10	8260D	3/18/20 15:15	JLB	P0C0355
Methyl Isobutyl Ketone	0.78 U	ug/L	50	0.78	10	8260D	3/18/20 15:15	JLB	P0C0355
Methylene Chloride	0.83 U	ug/L	10	0.83	10	8260D	3/18/20 15:15	JLB	P0C0355
o-Xylene	0.44 U	ug/L	5.0	0.44	10	8260D	3/18/20 15:15	JLB	P0C0355
Styrene	0.47 U	ug/L	5.0	0.47	10	8260D	3/18/20 15:15	JLB	P0C0355
Tetrachloroethylene	0.98 U	ug/L	5.0	0.98	10	8260D	3/18/20 15:15	JLB	P0C0355
Toluene	0.44 U	ug/L	5.0	0.44	10	8260D	3/18/20 15:15	JLB	P0C0355
trans-1,2-Dichloroethylene	0.94 U	ug/L	5.0	0.94	10	8260D	3/18/20 15:15	JLB	P0C0355
trans-1,3-Dichloropropylene	0.70 U	ug/L	5.0	0.70	10	8260D	3/18/20 15:15	JLB	P0C0355
Trichloroethylene	**71**	**ug/L**	**5.0**	**0.78**	**10**	**8260D**	**3/18/20 15:15**	**JLB**	**P0C0355**
Vinyl chloride	**2.1** J	**ug/L**	**5.0**	**0.97**	**10**	**8260D**	**3/18/20 15:15**	**JLB**	**P0C0355**
Xylenes, total	1.5 U	ug/L	15	1.5	10	8260D	3/18/20 15:15	JLB	P0C0355

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*104 %*	*75-129*
Toluene-d8	*98 %*	*77-123*

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: EW-1C
Sample ID: 0030166-26
Work Order: 0030166
Time Collected: 03/10/20 13:47
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**150**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/16/20 20:51**	**TBL**	**P0C0297**

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: EW-2A
Sample ID: 0030166-27
Work Order: 0030166
Time Collected: 03/10/20 13:59
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	**70**	**ug/L**	**5.0**	**0.61**	**10**	**8260D**	**3/18/20 14:26**	**JLB**	**P0C0355**
1,1,2,2-Tetrachloroethane	0.36 U	ug/L	5.0	0.36	10	8260D	3/18/20 14:26	JLB	P0C0355
1,1,2-Trichloroethane	0.66 U	ug/L	5.0	0.66	10	8260D	3/18/20 14:26	JLB	P0C0355
1,1-Dichloroethane	**160**	**ug/L**	**5.0**	**0.83**	**10**	**8260D**	**3/18/20 14:26**	**JLB**	**P0C0355**
1,1-Dichloroethylene	**310**	**ug/L**	**5.0**	**0.83**	**10**	**8260D**	**3/18/20 14:26**	**JLB**	**P0C0355**
1,2-Dichloroethane	**3.2** J	**ug/L**	**5.0**	**0.66**	**10**	**8260D**	**3/18/20 14:26**	**JLB**	**P0C0355**
1,2-Dichloropropane	1.1 U	ug/L	5.0	1.1	10	8260D	3/18/20 14:26	JLB	P0C0355
Acetone	3.1 U	ug/L	50	3.1	10	8260D	3/18/20 14:26	JLB	P0C0355
Benzene	0.48 U	ug/L	5.0	0.48	10	8260D	3/18/20 14:26	JLB	P0C0355
Bromodichloromethane	0.62 U	ug/L	5.0	0.62	10	8260D	3/18/20 14:26	JLB	P0C0355
Bromoform	0.40 U	ug/L	10	0.40	10	8260D	3/18/20 14:26	JLB	P0C0355
Bromomethane	1.8 U	ug/L	10	1.8	10	8260D	3/18/20 14:26	JLB	P0C0355
Carbon disulfide	0.75 U	ug/L	50	0.75	10	8260D	3/18/20 14:26	JLB	P0C0355
Carbon Tetrachloride	1.1 U	ug/L	5.0	1.1	10	8260D	3/18/20 14:26	JLB	P0C0355
Chlorobenzene	0.62 U	ug/L	5.0	0.62	10	8260D	3/18/20 14:26	JLB	P0C0355
Chloroethane	2.2 U	ug/L	5.0	2.2	10	8260D	3/18/20 14:26	JLB	P0C0355
Chloroform	**4.4** J	**ug/L**	**5.0**	**0.76**	**10**	**8260D**	**3/18/20 14:26**	**JLB**	**P0C0355**
Chloromethane	0.79 U	ug/L	5.0	0.79	10	8260D	3/18/20 14:26	JLB	P0C0355
cis-1,2-Dichloroethylene	**20**	**ug/L**	**5.0**	**0.56**	**10**	**8260D**	**3/18/20 14:26**	**JLB**	**P0C0355**
cis-1,3-Dichloropropylene	0.79 U	ug/L	5.0	0.79	10	8260D	3/18/20 14:26	JLB	P0C0355
Dibromochloromethane	0.81 U	ug/L	5.0	0.81	10	8260D	3/18/20 14:26	JLB	P0C0355
Dichlorodifluoromethane	1.1 U	ug/L	50	1.1	10	8260D	3/18/20 14:26	JLB	P0C0355
Ethylbenzene	0.61 U	ug/L	5.0	0.61	10	8260D	3/18/20 14:26	JLB	P0C0355
m,p-Xylenes	1.2 U	ug/L	10	1.2	10	8260D	3/18/20 14:26	JLB	P0C0355
Methyl Butyl Ketone (2-Hexanone)	0.65 U	ug/L	50	0.65	10	8260D	3/18/20 14:26	JLB	P0C0355
Methyl Ethyl Ketone (2-Butanone)	2.4 U	ug/L	50	2.4	10	8260D	3/18/20 14:26	JLB	P0C0355
Methyl Isobutyl Ketone	0.78 U	ug/L	50	0.78	10	8260D	3/18/20 14:26	JLB	P0C0355
Methylene Chloride	0.83 U	ug/L	10	0.83	10	8260D	3/18/20 14:26	JLB	P0C0355
o-Xylene	0.44 U	ug/L	5.0	0.44	10	8260D	3/18/20 14:26	JLB	P0C0355
Styrene	0.47 U	ug/L	5.0	0.47	10	8260D	3/18/20 14:26	JLB	P0C0355
Tetrachloroethylene	0.98 U	ug/L	5.0	0.98	10	8260D	3/18/20 14:26	JLB	P0C0355
Toluene	0.44 U	ug/L	5.0	0.44	10	8260D	3/18/20 14:26	JLB	P0C0355
trans-1,2-Dichloroethylene	0.94 U	ug/L	5.0	0.94	10	8260D	3/18/20 14:26	JLB	P0C0355
trans-1,3-Dichloropropylene	0.70 U	ug/L	5.0	0.70	10	8260D	3/18/20 14:26	JLB	P0C0355
Trichloroethylene	**71**	**ug/L**	**5.0**	**0.78**	**10**	**8260D**	**3/18/20 14:26**	**JLB**	**P0C0355**
Vinyl chloride	**2.2** J	**ug/L**	**5.0**	**0.97**	**10**	**8260D**	**3/18/20 14:26**	**JLB**	**P0C0355**
Xylenes, total	1.5 U	ug/L	15	1.5	10	8260D	3/18/20 14:26	JLB	P0C0355

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*102 %*	*75-129*
Toluene-d8	*99 %*	*77-123*

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: EW-2A
Sample ID: 0030166-27
Work Order: 0030166
Time Collected: 03/10/20 13:59
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**150**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/16/20 21:16**	**TBL**	**P0C0297**

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: EW-3B
Sample ID: 0030166-28
Work Order: 0030166
Time Collected: 03/10/20 14:06
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	**25**	**ug/L**	**5.0**	**0.61**	**10**	**8260D**	**3/18/20 14:51**	**JLB**	**P0C0355**
1,1,2,2-Tetrachloroethane	0.36 U	ug/L	5.0	0.36	10	8260D	3/18/20 14:51	JLB	P0C0355
1,1,2-Trichloroethane	0.66 U	ug/L	5.0	0.66	10	8260D	3/18/20 14:51	JLB	P0C0355
1,1-Dichloroethane	**170**	**ug/L**	**5.0**	**0.83**	**10**	**8260D**	**3/18/20 14:51**	**JLB**	**P0C0355**
1,1-Dichloroethylene	**330**	**ug/L**	**5.0**	**0.83**	**10**	**8260D**	**3/18/20 14:51**	**JLB**	**P0C0355**
1,2-Dichloroethane	**3.5** J	**ug/L**	**5.0**	**0.66**	**10**	**8260D**	**3/18/20 14:51**	**JLB**	**P0C0355**
1,2-Dichloropropane	1.1 U	ug/L	5.0	1.1	10	8260D	3/18/20 14:51	JLB	P0C0355
Acetone	3.1 U	ug/L	50	3.1	10	8260D	3/18/20 14:51	JLB	P0C0355
Benzene	0.48 U	ug/L	5.0	0.48	10	8260D	3/18/20 14:51	JLB	P0C0355
Bromodichloromethane	0.62 U	ug/L	5.0	0.62	10	8260D	3/18/20 14:51	JLB	P0C0355
Bromoform	0.40 U	ug/L	10	0.40	10	8260D	3/18/20 14:51	JLB	P0C0355
Bromomethane	1.8 U	ug/L	10	1.8	10	8260D	3/18/20 14:51	JLB	P0C0355
Carbon disulfide	0.75 U	ug/L	50	0.75	10	8260D	3/18/20 14:51	JLB	P0C0355
Carbon Tetrachloride	1.1 U	ug/L	5.0	1.1	10	8260D	3/18/20 14:51	JLB	P0C0355
Chlorobenzene	0.62 U	ug/L	5.0	0.62	10	8260D	3/18/20 14:51	JLB	P0C0355
Chloroethane	2.2 U	ug/L	5.0	2.2	10	8260D	3/18/20 14:51	JLB	P0C0355
Chloroform	**4.9** J	**ug/L**	**5.0**	**0.76**	**10**	**8260D**	**3/18/20 14:51**	**JLB**	**P0C0355**
Chloromethane	0.79 U	ug/L	5.0	0.79	10	8260D	3/18/20 14:51	JLB	P0C0355
cis-1,2-Dichloroethylene	**19**	**ug/L**	**5.0**	**0.56**	**10**	**8260D**	**3/18/20 14:51**	**JLB**	**P0C0355**
cis-1,3-Dichloropropylene	0.79 U	ug/L	5.0	0.79	10	8260D	3/18/20 14:51	JLB	P0C0355
Dibromochloromethane	0.81 U	ug/L	5.0	0.81	10	8260D	3/18/20 14:51	JLB	P0C0355
Dichlorodifluoromethane	1.1 U	ug/L	50	1.1	10	8260D	3/18/20 14:51	JLB	P0C0355
Ethylbenzene	0.61 U	ug/L	5.0	0.61	10	8260D	3/18/20 14:51	JLB	P0C0355
m,p-Xylenes	1.2 U	ug/L	10	1.2	10	8260D	3/18/20 14:51	JLB	P0C0355
Methyl Butyl Ketone (2-Hexanone)	0.65 U	ug/L	50	0.65	10	8260D	3/18/20 14:51	JLB	P0C0355
Methyl Ethyl Ketone (2-Butanone)	2.4 U	ug/L	50	2.4	10	8260D	3/18/20 14:51	JLB	P0C0355
Methyl Isobutyl Ketone	0.78 U	ug/L	50	0.78	10	8260D	3/18/20 14:51	JLB	P0C0355
Methylene Chloride	0.83 U	ug/L	10	0.83	10	8260D	3/18/20 14:51	JLB	P0C0355
o-Xylene	0.44 U	ug/L	5.0	0.44	10	8260D	3/18/20 14:51	JLB	P0C0355
Styrene	0.47 U	ug/L	5.0	0.47	10	8260D	3/18/20 14:51	JLB	P0C0355
Tetrachloroethylene	0.98 U	ug/L	5.0	0.98	10	8260D	3/18/20 14:51	JLB	P0C0355
Toluene	0.44 U	ug/L	5.0	0.44	10	8260D	3/18/20 14:51	JLB	P0C0355
trans-1,2-Dichloroethylene	0.94 U	ug/L	5.0	0.94	10	8260D	3/18/20 14:51	JLB	P0C0355
trans-1,3-Dichloropropylene	0.70 U	ug/L	5.0	0.70	10	8260D	3/18/20 14:51	JLB	P0C0355
Trichloroethylene	**68**	**ug/L**	**5.0**	**0.78**	**10**	**8260D**	**3/18/20 14:51**	**JLB**	**P0C0355**
Vinyl chloride	**2.1** J	**ug/L**	**5.0**	**0.97**	**10**	**8260D**	**3/18/20 14:51**	**JLB**	**P0C0355**
Xylenes, total	1.5 U	ug/L	15	1.5	10	8260D	3/18/20 14:51	JLB	P0C0355

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*100 %*	*80-124*
Dibromofluoromethane	*104 %*	*75-129*
Toluene-d8	*98 %*	*77-123*

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: EW-3B
Sample ID: 0030166-28
Work Order: 0030166
Time Collected: 03/10/20 14:06
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**170**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/16/20 21:41**	**TBL**	**P0C0297**

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-38
Sample ID: 0030166-29
Work Order: 0030166
Time Collected: 03/10/20 13:25
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 13:22	JLB	P0C0354
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/18/20 13:22	JLB	P0C0354
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/18/20 13:22	JLB	P0C0354
1,1-Dichloroethane	**0.30** J	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/18/20 13:22**	**JLB**	**P0C0354**
1,1-Dichloroethylene	**0.72**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/18/20 13:22**	**JLB**	**P0C0354**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/18/20 13:22	JLB	P0C0354
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 13:22	JLB	P0C0354
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	3/18/20 13:22	JLB	P0C0354
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/18/20 13:22	JLB	P0C0354
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 13:22	JLB	P0C0354
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/18/20 13:22	JLB	P0C0354
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/18/20 13:22	JLB	P0C0354
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/18/20 13:22	JLB	P0C0354
Carbon Tetrachloride	**3.7**	**ug/L**	**0.50**	**0.11**	**1**	**8260D**	**3/18/20 13:22**	**JLB**	**P0C0354**
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 13:22	JLB	P0C0354
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/18/20 13:22	JLB	P0C0354
Chloroform	**7.5**	**ug/L**	**0.50**	**0.076**	**1**	**8260D**	**3/18/20 13:22**	**JLB**	**P0C0354**
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 13:22	JLB	P0C0354
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	3/18/20 13:22	JLB	P0C0354
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 13:22	JLB	P0C0354
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/18/20 13:22	JLB	P0C0354
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/18/20 13:22	JLB	P0C0354
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 13:22	JLB	P0C0354
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/18/20 13:22	JLB	P0C0354
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/18/20 13:22	JLB	P0C0354
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/18/20 13:22	JLB	P0C0354
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/18/20 13:22	JLB	P0C0354
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/18/20 13:22	JLB	P0C0354
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 13:22	JLB	P0C0354
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/18/20 13:22	JLB	P0C0354
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	3/18/20 13:22	JLB	P0C0354
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 13:22	JLB	P0C0354
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/18/20 13:22	JLB	P0C0354
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/18/20 13:22	JLB	P0C0354
Trichloroethylene	0.078 U	ug/L	0.50	0.078	1	8260D	3/18/20 13:22	JLB	P0C0354
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/18/20 13:22	JLB	P0C0354
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/18/20 13:22	JLB	P0C0354

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*
Dibromofluoromethane	*101 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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Laboratory Report

03/23/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-38
Sample ID: 0030166-29
Work Order: 0030166
Time Collected: 03/10/20 13:25
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	0.14 U	ug/L	2.0	0.14	1	8260D SIM	3/16/20 22:06	TBL	P0C0297

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-39
Sample ID: 0030166-30
Work Order: 0030166
Time Collected: 03/10/20 14:39
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 13:47	JLB	P0C0354
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/18/20 13:47	JLB	P0C0354
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/18/20 13:47	JLB	P0C0354
1,1-Dichloroethane	0.083 U	ug/L	0.50	0.083	1	8260D	3/18/20 13:47	JLB	P0C0354
1,1-Dichloroethylene	**0.41 J**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**3/18/20 13:47**	**JLB**	**P0C0354**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/18/20 13:47	JLB	P0C0354
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 13:47	JLB	P0C0354
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	3/18/20 13:47	JLB	P0C0354
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/18/20 13:47	JLB	P0C0354
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 13:47	JLB	P0C0354
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/18/20 13:47	JLB	P0C0354
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/18/20 13:47	JLB	P0C0354
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/18/20 13:47	JLB	P0C0354
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/18/20 13:47	JLB	P0C0354
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/18/20 13:47	JLB	P0C0354
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/18/20 13:47	JLB	P0C0354
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	3/18/20 13:47	JLB	P0C0354
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 13:47	JLB	P0C0354
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	3/18/20 13:47	JLB	P0C0354
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/18/20 13:47	JLB	P0C0354
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/18/20 13:47	JLB	P0C0354
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/18/20 13:47	JLB	P0C0354
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/18/20 13:47	JLB	P0C0354
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/18/20 13:47	JLB	P0C0354
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/18/20 13:47	JLB	P0C0354
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/18/20 13:47	JLB	P0C0354
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/18/20 13:47	JLB	P0C0354
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/18/20 13:47	JLB	P0C0354
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 13:47	JLB	P0C0354
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/18/20 13:47	JLB	P0C0354
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	3/18/20 13:47	JLB	P0C0354
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/18/20 13:47	JLB	P0C0354
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/18/20 13:47	JLB	P0C0354
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/18/20 13:47	JLB	P0C0354
Trichloroethylene	**0.37 J**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**3/18/20 13:47**	**JLB**	**P0C0354**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/18/20 13:47	JLB	P0C0354
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/18/20 13:47	JLB	P0C0354

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*102 %*	*75-129*
Toluene-d8	*102 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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Laboratory Report

03/23/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-39
Sample ID: 0030166-30
Work Order: 0030166
Time Collected: 03/10/20 14:39
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	0.14 U	ug/L	2.0	0.14	1	8260D SIM	3/16/20 22:31	TBL	P0C0297

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: FB
Sample ID: 0030166-31
Work Order: 0030166
Time Collected: 03/10/20 11:35
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	3/21/20 1:38	JLB	P0C0430
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/21/20 1:38	JLB	P0C0430
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/21/20 1:38	JLB	P0C0430
1,1-Dichloroethane	0.083 U	ug/L	0.50	0.083	1	8260D	3/21/20 1:38	JLB	P0C0430
1,1-Dichloroethylene	0.083 U	ug/L	0.50	0.083	1	8260D	3/21/20 1:38	JLB	P0C0430
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/21/20 1:38	JLB	P0C0430
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/21/20 1:38	JLB	P0C0430
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	3/21/20 1:38	JLB	P0C0430
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/21/20 1:38	JLB	P0C0430
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/21/20 1:38	JLB	P0C0430
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/21/20 1:38	JLB	P0C0430
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/21/20 1:38	JLB	P0C0430
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/21/20 1:38	JLB	P0C0430
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/21/20 1:38	JLB	P0C0430
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/21/20 1:38	JLB	P0C0430
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/21/20 1:38	JLB	P0C0430
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	3/21/20 1:38	JLB	P0C0430
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/21/20 1:38	JLB	P0C0430
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	3/21/20 1:38	JLB	P0C0430
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/21/20 1:38	JLB	P0C0430
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/21/20 1:38	JLB	P0C0430
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/21/20 1:38	JLB	P0C0430
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/21/20 1:38	JLB	P0C0430
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/21/20 1:38	JLB	P0C0430
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/21/20 1:38	JLB	P0C0430
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/21/20 1:38	JLB	P0C0430
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/21/20 1:38	JLB	P0C0430
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/21/20 1:38	JLB	P0C0430
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/21/20 1:38	JLB	P0C0430
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/21/20 1:38	JLB	P0C0430
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	3/21/20 1:38	JLB	P0C0430
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/21/20 1:38	JLB	P0C0430
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/21/20 1:38	JLB	P0C0430
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/21/20 1:38	JLB	P0C0430
Trichloroethylene	0.078 U	ug/L	0.50	0.078	1	8260D	3/21/20 1:38	JLB	P0C0430
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/21/20 1:38	JLB	P0C0430
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/21/20 1:38	JLB	P0C0430

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*
Dibromofluoromethane	*102 %*	*75-129*
Toluene-d8	*100 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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Laboratory Report

03/23/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: FB
Sample ID: 0030166-31
Work Order: 0030166
Time Collected: 03/10/20 11:35
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	0.14 U	ug/L	2.0	0.14	1	8260D SIM	3/16/20 18:20	TBL	P0C0297

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: Trip Blank
Sample ID: 0030166-32
Work Order: 0030166
Time Collected: 03/10/20 00:00
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	3/21/20 1:13	JLB	P0C0430
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	3/21/20 1:13	JLB	P0C0430
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/21/20 1:13	JLB	P0C0430
1,1-Dichloroethane	0.083 U	ug/L	0.50	0.083	1	8260D	3/21/20 1:13	JLB	P0C0430
1,1-Dichloroethylene	0.083 U	ug/L	0.50	0.083	1	8260D	3/21/20 1:13	JLB	P0C0430
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	3/21/20 1:13	JLB	P0C0430
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	3/21/20 1:13	JLB	P0C0430
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	3/21/20 1:13	JLB	P0C0430
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	3/21/20 1:13	JLB	P0C0430
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	3/21/20 1:13	JLB	P0C0430
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	3/21/20 1:13	JLB	P0C0430
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	3/21/20 1:13	JLB	P0C0430
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	3/21/20 1:13	JLB	P0C0430
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	3/21/20 1:13	JLB	P0C0430
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	3/21/20 1:13	JLB	P0C0430
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	3/21/20 1:13	JLB	P0C0430
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	3/21/20 1:13	JLB	P0C0430
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	3/21/20 1:13	JLB	P0C0430
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	3/21/20 1:13	JLB	P0C0430
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	3/21/20 1:13	JLB	P0C0430
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	3/21/20 1:13	JLB	P0C0430
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	3/21/20 1:13	JLB	P0C0430
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	3/21/20 1:13	JLB	P0C0430
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	3/21/20 1:13	JLB	P0C0430
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	3/21/20 1:13	JLB	P0C0430
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	3/21/20 1:13	JLB	P0C0430
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	3/21/20 1:13	JLB	P0C0430
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	3/21/20 1:13	JLB	P0C0430
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	3/21/20 1:13	JLB	P0C0430
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	3/21/20 1:13	JLB	P0C0430
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	3/21/20 1:13	JLB	P0C0430
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	3/21/20 1:13	JLB	P0C0430
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	3/21/20 1:13	JLB	P0C0430
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	3/21/20 1:13	JLB	P0C0430
Trichloroethylene	0.078 U	ug/L	0.50	0.078	1	8260D	3/21/20 1:13	JLB	P0C0430
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	3/21/20 1:13	JLB	P0C0430
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	3/21/20 1:13	JLB	P0C0430

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*102 %*	*75-129*
Toluene-d8	*100 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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Laboratory Report

03/23/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: Trip Blank
Sample ID: 0030166-32
Work Order: 0030166
Time Collected: 03/10/20 00:00
Time Submitted: 03/11/20 17:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	0.14 U	ug/L	2.0	0.14	1	8260D SIM	3/16/20 17:55	TBL	P0C0297

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0332 - 5030B										
Blank (P0C0332-BLK1)				Prepared & Analyzed: 03/17/20						
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Benzene	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	5.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
o-Xylene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	1.5	ug/L							
Surrogate: 4-Bromofluorobenzene	*51.0*		*ug/L*	*50.00*		*102*	*80-124*			
Surrogate: Dibromofluoromethane	*51.0*		*ug/L*	*50.00*		*102*	*75-129*			
Surrogate: Toluene-d8	*49.7*		*ug/L*	*50.00*		*99*	*77-123*			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0332 - 5030B										
LCS (P0C0332-BS1)				Prepared & Analyzed: 03/17/20						
1,1,1,2-Tetrachloroethane	19.8	0.50	ug/L	20.00		99	79-134			
1,1,1-Trichloroethane	20.0	0.50	ug/L	20.00		100	75-136			
1,1,2,2-Tetrachloroethane	19.8	0.50	ug/L	20.00		99	62-127			
1,1,2-Trichloroethane	20.0	0.50	ug/L	20.00		100	70-140			
1,1-Dichloroethane	19.9	0.50	ug/L	20.00		99	78-130			
1,1-Dichloroethylene	18.8	0.50	ug/L	20.00		94	70-154			
1,1-Dichloropropylene	19.2	0.50	ug/L	20.00		96	71-136			
1,2,3-Trichlorobenzene	23.7	2.0	ug/L	20.00		119	58-144			
1,2,3-Trichloropropane	19.0	1.0	ug/L	20.00		95	71-127			
1,2,4-Trichlorobenzene	23.2	1.0	ug/L	20.00		116	66-139			
1,2,4-Trimethylbenzene	21.2	0.50	ug/L	20.00		106	75-133			
1,2-Dibromo-3-chloropropane	20.3	2.0	ug/L	20.00		102	63-134			
1,2-Dibromoethane	19.3	0.50	ug/L	20.00		96	77-135			
1,2-Dichlorobenzene	22.2	0.50	ug/L	20.00		111	78-128			
1,2-Dichloroethane	18.3	0.50	ug/L	20.00		91	68-131			
1,2-Dichloropropane	19.6	0.50	ug/L	20.00		98	77-130			
1,3,5-Trimethylbenzene	21.7	0.50	ug/L	20.00		109	75-131			
1,3-Dichlorobenzene	21.6	0.50	ug/L	20.00		108	77-125			
1,3-Dichloropropane	19.6	0.50	ug/L	20.00		98	76-132			
1,4-Dichlorobenzene	21.0	0.50	ug/L	20.00		105	75-126			
2,2-Dichloropropane	19.9	2.0	ug/L	20.00		99	29-149			
2-Chlorotoluene	21.8	0.50	ug/L	20.00		109	74-126			
4-Chlorotoluene	20.7	0.50	ug/L	20.00		104	78-129			
4-Isopropyltoluene	22.0	0.50	ug/L	20.00		110	69-132			
Acetone	29.0	5.0	ug/L	40.00		72	40-166			
Acrolein	36.9	20	ug/L	40.00		92	70-130			
Acrylonitrile	38.1	20	ug/L	40.00		95	81-127			
Benzene	19.8	0.50	ug/L	20.00		99	77-128			
Bromobenzene	20.7	0.50	ug/L	20.00		104	78-129			
Bromochloromethane	20.2	0.50	ug/L	20.00		101	78-135			
Bromodichloromethane	18.8	0.50	ug/L	20.00		94	76-138			
Bromoform	19.2	1.0	ug/L	20.00		96	71-135			
Bromomethane	23.7	1.0	ug/L	20.00		119	41-168			
Carbon disulfide	19.8	5.0	ug/L	20.00		99	59-135			
Carbon Tetrachloride	19.3	0.50	ug/L	20.00		96	72-142			
Chlorobenzene	20.0	0.50	ug/L	20.00		100	78-119			
Chloroethane	21.2	0.50	ug/L	20.00		106	57-142			
Chloroform	20.2	0.50	ug/L	20.00		101	77-130			
Chloromethane	21.7	0.50	ug/L	20.00		109	47-145			
cis-1,2-Dichloroethylene	19.0	0.50	ug/L	20.00		95	76-141			
cis-1,3-Dichloropropylene	20.7	0.50	ug/L	20.00		104	65-140			
Dibromochloromethane	19.8	0.50	ug/L	20.00		99	75-134			
Dibromomethane	19.1	0.50	ug/L	20.00		95	76-138			
Dichlorodifluoromethane	22.3	5.0	ug/L	20.00		112	28-163			
Ethylbenzene	19.8	0.50	ug/L	20.00		99	80-127			
Hexachlorobutadiene	24.4	2.0	ug/L	20.00		122	61-134			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0332 - 5030B										
LCS (P0C0332-BS1)				Prepared & Analyzed: 03/17/20						
Isopropyl Ether	19.5	0.50	ug/L	20.00		97	60-154			
Isopropylbenzene (Cumene)	21.8	0.50	ug/L	20.00		109	70-130			
m,p-Xylenes	40.6	1.0	ug/L	40.00		101	77-133			
Methyl Butyl Ketone (2-Hexanone)	18.6	5.0	ug/L	20.00		93	64-137			
Methyl Ethyl Ketone (2-Butanone)	18.0	5.0	ug/L	20.00		90	71-134			
Methyl Isobutyl Ketone	19.3	5.0	ug/L	20.00		96	69-134			
Methylene Chloride	17.8	1.0	ug/L	20.00		89	73-131			
Methyl-tert-Butyl Ether	19.3	0.50	ug/L	20.00		96	68-135			
Naphthalene	21.4	1.0	ug/L	20.00		107	64-136			
n-Butylbenzene	22.1	1.0	ug/L	20.00		110	68-134			
n-Propylbenzene	21.6	0.50	ug/L	20.00		108	72-132			
o-Xylene	19.8	0.50	ug/L	20.00		99	78-128			
sec-Butylbenzene	22.0	0.50	ug/L	20.00		110	71-131			
Styrene	20.4	0.50	ug/L	20.00		102	78-129			
tert-Butylbenzene	21.8	0.50	ug/L	20.00		109	70-132			
Tetrachloroethylene	20.9	0.50	ug/L	20.00		105	80-129			
Toluene	20.0	0.50	ug/L	20.00		100	76-131			
trans-1,2-Dichloroethylene	19.6	0.50	ug/L	20.00		98	76-135			
trans-1,3-Dichloropropylene	19.7	0.50	ug/L	20.00		99	67-140			
Trichloroethylene	19.9	0.50	ug/L	20.00		100	77-133			
Trichlorofluoromethane	21.7	0.50	ug/L	20.00		108	62-148			
Vinyl acetate	19.6	2.0	ug/L	20.00		98	34-167			
Vinyl chloride	19.7	0.50	ug/L	20.00		98	57-141			
Xylenes, total	60.4	1.5	ug/L	60.00		101	77-133			
Surrogate: 4-Bromofluorobenzene	*51.2*		*ug/L*	*50.00*		*102*	*80-124*			
Surrogate: Dibromofluoromethane	*50.8*		*ug/L*	*50.00*		*102*	*75-129*			
Surrogate: Toluene-d8	*50.1*		*ug/L*	*50.00*		*100*	*77-123*			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0332 - 5030B										
Matrix Spike (P0C0332-MS1)	**Source: 0030166-07**			Prepared: 03/17/20	Analyzed: 03/18/20					
1,1,1,2-Tetrachloroethane	195	5.0	ug/L	200.0	BRL	98	78-134			
1,1,1-Trichloroethane	202	5.0	ug/L	200.0	BRL	101	67-145			
1,1,2,2-Tetrachloroethane	197	5.0	ug/L	200.0	BRL	99	68-123			
1,1,2-Trichloroethane	197	5.0	ug/L	200.0	BRL	98	75-134			
1,1-Dichloroethane	204	5.0	ug/L	200.0	BRL	102	75-134			
1,1-Dichloroethylene	196	5.0	ug/L	200.0	BRL	98	65-162			
1,1-Dichloropropylene	199	5.0	ug/L	200.0	BRL	99	68-140			
1,2,3-Trichlorobenzene	236	20	ug/L	200.0	BRL	118	56-146			
1,2,3-Trichloropropane	194	10	ug/L	200.0	BRL	97	73-122			
1,2,4-Trichlorobenzene	216	10	ug/L	200.0	BRL	108	67-135			
1,2,4-Trimethylbenzene	205	5.0	ug/L	200.0	BRL	102	75-131			
1,2-Dibromo-3-chloropropane	199	20	ug/L	200.0	BRL	100	64-133			
1,2-Dibromoethane	194	5.0	ug/L	200.0	BRL	97	80-129			
1,2-Dichlorobenzene	215	5.0	ug/L	200.0	BRL	108	80-125			
1,2-Dichloroethane	194	5.0	ug/L	200.0	BRL	97	69-129			
1,2-Dichloropropane	199	5.0	ug/L	200.0	BRL	100	75-131			
1,3,5-Trimethylbenzene	208	5.0	ug/L	200.0	BRL	104	75-131			
1,3-Dichlorobenzene	208	5.0	ug/L	200.0	BRL	104	79-122			
1,3-Dichloropropane	195	5.0	ug/L	200.0	BRL	97	80-125			
1,4-Dichlorobenzene	201	5.0	ug/L	200.0	BRL	101	76-124			
2,2-Dichloropropane	204	20	ug/L	200.0	BRL	102	21-140			
2-Chlorotoluene	213	5.0	ug/L	200.0	BRL	106	75-125			
4-Chlorotoluene	201	5.0	ug/L	200.0	BRL	101	76-130			
4-Isopropyltoluene	212	5.0	ug/L	200.0	BRL	106	72-129			
Acetone	303	50	ug/L	400.0	BRL	76	40-162			
Acrolein	357	200	ug/L	400.0	BRL	89	70-130			
Acrylonitrile	388	200	ug/L	400.0	BRL	97	78-129			
Benzene	201	5.0	ug/L	200.0	BRL	101	73-131			
Bromobenzene	200	5.0	ug/L	200.0	BRL	100	80-125			
Bromochloromethane	208	5.0	ug/L	200.0	BRL	104	78-135			
Bromodichloromethane	193	5.0	ug/L	200.0	BRL	97	74-138			
Bromoform	195	10	ug/L	200.0	BRL	97	72-130			
Bromomethane	210	10	ug/L	200.0	BRL	105	41-173			
Carbon disulfide	197	50	ug/L	200.0	BRL	99	59-138			
Carbon Tetrachloride	201	5.0	ug/L	200.0	BRL	100	66-149			
Chlorobenzene	198	5.0	ug/L	200.0	BRL	99	76-119			
Chloroethane	213	5.0	ug/L	200.0	BRL	107	52-153			
Chloroform	203	5.0	ug/L	200.0	BRL	101	74-136			
Chloromethane	213	5.0	ug/L	200.0	BRL	106	39-155			
cis-1,2-Dichloroethylene	196	5.0	ug/L	200.0	BRL	98	74-144			
cis-1,3-Dichloropropylene	205	5.0	ug/L	200.0	BRL	102	64-132			
Dibromochloromethane	195	5.0	ug/L	200.0	BRL	97	77-131			
Dibromomethane	200	5.0	ug/L	200.0	BRL	100	76-136			
Dichlorodifluoromethane	228	50	ug/L	200.0	BRL	114	22-170			
Ethylbenzene	197	5.0	ug/L	200.0	BRL	98	78-130			
Hexachlorobutadiene	232	20	ug/L	200.0	BRL	116	63-132			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0332 - 5030B										
Matrix Spike (P0C0332-MS1)	**Source: 0030166-07**			Prepared: 03/17/20	Analyzed: 03/18/20					
Isopropyl Ether	196	5.0	ug/L	200.0	BRL	98	62-154			
Isopropylbenzene (Cumene)	211	5.0	ug/L	200.0	BRL	106	72-127			
m,p-Xylenes	406	10	ug/L	400.0	BRL	102	66-144			
Methyl Butyl Ketone (2-Hexanone)	190	50	ug/L	200.0	BRL	95	65-130			
Methyl Ethyl Ketone (2-Butanone)	191	50	ug/L	200.0	BRL	96	65-137			
Methyl Isobutyl Ketone	199	50	ug/L	200.0	BRL	99	64-137			
Methylene Chloride	181	10	ug/L	200.0	BRL	91	71-134			
Methyl-tert-Butyl Ether	198	5.0	ug/L	200.0	BRL	99	71-133			
Naphthalene	208	10	ug/L	200.0	BRL	104	63-134			
n-Butylbenzene	211	10	ug/L	200.0	BRL	106	69-132			
n-Propylbenzene	209	5.0	ug/L	200.0	BRL	104	75-130			
o-Xylene	197	5.0	ug/L	200.0	BRL	99	75-131			
sec-Butylbenzene	212	5.0	ug/L	200.0	BRL	106	72-130			
Styrene	200	5.0	ug/L	200.0	BRL	100	77-128			
tert-Butylbenzene	211	5.0	ug/L	200.0	BRL	106	72-130			
Tetrachloroethylene	201	5.0	ug/L	200.0	BRL	100	76-130			
Toluene	203	5.0	ug/L	200.0	BRL	101	72-135			
trans-1,2-Dichloroethylene	201	5.0	ug/L	200.0	BRL	100	73-141			
trans-1,3-Dichloropropylene	200	5.0	ug/L	200.0	BRL	100	64-137			
Trichloroethylene	198	5.0	ug/L	200.0	BRL	99	72-133			
Trichlorofluoromethane	217	5.0	ug/L	200.0	BRL	108	61-152			
Vinyl acetate	192	20	ug/L	200.0	BRL	96	80-154			
Vinyl chloride	197	5.0	ug/L	200.0	BRL	99	54-146			
Xylenes, total	604	15	ug/L	600.0	BRL	101	66-144			
Surrogate: 4-Bromofluorobenzene	*50.8*		*ug/L*	*50.00*		*102*	*80-124*			
Surrogate: Dibromofluoromethane	*51.3*		*ug/L*	*50.00*		*103*	*75-129*			
Surrogate: Toluene-d8	*49.6*		*ug/L*	*50.00*		*99*	*77-123*			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0332 - 5030B										
Matrix Spike Dup (P0C0332-MSD1)	**Source: 0030166-07**			Prepared: 03/17/20	Analyzed: 03/18/20					
1,1,1,2-Tetrachloroethane	187	5.0	ug/L	200.0	BRL	93	78-134	5	19	
1,1,1-Trichloroethane	192	5.0	ug/L	200.0	BRL	96	67-145	5	18	
1,1,2,2-Tetrachloroethane	192	5.0	ug/L	200.0	BRL	96	68-123	3	19	
1,1,2-Trichloroethane	194	5.0	ug/L	200.0	BRL	97	75-134	2	18	
1,1-Dichloroethane	194	5.0	ug/L	200.0	BRL	97	75-134	5	18	
1,1-Dichloroethylene	179	5.0	ug/L	200.0	BRL	90	65-162	9	20	
1,1-Dichloropropylene	183	5.0	ug/L	200.0	BRL	92	68-140	8	19	
1,2,3-Trichlorobenzene	234	20	ug/L	200.0	BRL	117	56-146	0.8	31	
1,2,3-Trichloropropane	187	10	ug/L	200.0	BRL	94	73-122	4	18	
1,2,4-Trichlorobenzene	213	10	ug/L	200.0	BRL	106	67-135	2	20	
1,2,4-Trimethylbenzene	199	5.0	ug/L	200.0	BRL	100	75-131	3	18	
1,2-Dibromo-3-chloropropane	194	20	ug/L	200.0	BRL	97	64-133	3	25	
1,2-Dibromoethane	186	5.0	ug/L	200.0	BRL	93	80-129	5	19	
1,2-Dichlorobenzene	210	5.0	ug/L	200.0	BRL	105	80-125	2	16	
1,2-Dichloroethane	182	5.0	ug/L	200.0	BRL	91	69-129	6	17	
1,2-Dichloropropane	190	5.0	ug/L	200.0	BRL	95	75-131	5	17	
1,3,5-Trimethylbenzene	202	5.0	ug/L	200.0	BRL	101	75-131	3	19	
1,3-Dichlorobenzene	201	5.0	ug/L	200.0	BRL	101	79-122	3	17	
1,3-Dichloropropane	187	5.0	ug/L	200.0	BRL	93	80-125	4	18	
1,4-Dichlorobenzene	198	5.0	ug/L	200.0	BRL	99	76-124	2	17	
2,2-Dichloropropane	189	20	ug/L	200.0	BRL	94	21-140	8	19	
2-Chlorotoluene	202	5.0	ug/L	200.0	BRL	101	75-125	6	24	
4-Chlorotoluene	194	5.0	ug/L	200.0	BRL	97	76-130	4	16	
4-Isopropyltoluene	202	5.0	ug/L	200.0	BRL	101	72-129	5	19	
Acetone	288	50	ug/L	400.0	BRL	72	40-162	5	23	
Acrolein	354	200	ug/L	400.0	BRL	88	70-130	0.8	20	
Acrylonitrile	365	200	ug/L	400.0	BRL	91	78-129	6	20	
Benzene	188	5.0	ug/L	200.0	BRL	94	73-131	7	17	
Bromobenzene	193	5.0	ug/L	200.0	BRL	97	80-125	3	18	
Bromochloromethane	200	5.0	ug/L	200.0	BRL	100	78-135	3	17	
Bromodichloromethane	186	5.0	ug/L	200.0	BRL	93	74-138	4	19	
Bromoform	185	10	ug/L	200.0	BRL	92	72-130	5	22	
Bromomethane	208	10	ug/L	200.0	BRL	104	41-173	1	33	
Carbon disulfide	186	50	ug/L	200.0	BRL	93	59-138	6	27	
Carbon Tetrachloride	184	5.0	ug/L	200.0	BRL	92	66-149	9	23	
Chlorobenzene	187	5.0	ug/L	200.0	BRL	94	76-119	6	20	
Chloroethane	198	5.0	ug/L	200.0	BRL	99	52-153	7	24	
Chloroform	192	5.0	ug/L	200.0	BRL	96	74-136	6	19	
Chloromethane	207	5.0	ug/L	200.0	BRL	104	39-155	2	20	
cis-1,2-Dichloroethylene	189	5.0	ug/L	200.0	BRL	95	74-144	4	17	
cis-1,3-Dichloropropylene	197	5.0	ug/L	200.0	BRL	99	64-132	4	18	
Dibromochloromethane	188	5.0	ug/L	200.0	BRL	94	77-131	3	21	
Dibromomethane	188	5.0	ug/L	200.0	BRL	94	76-136	6	18	
Dichlorodifluoromethane	207	50	ug/L	200.0	BRL	103	22-170	10	22	
Ethylbenzene	188	5.0	ug/L	200.0	BRL	94	78-130	5	18	
Hexachlorobutadiene	220	20	ug/L	200.0	BRL	110	63-132	5	26	

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0332 - 5030B										
Matrix Spike Dup (P0C0332-MSD1)	**Source: 0030166-07**			Prepared: 03/17/20	Analyzed: 03/18/20					
Isopropyl Ether	190	5.0	ug/L	200.0	BRL	95	62-154	3	18	
Isopropylbenzene (Cumene)	200	5.0	ug/L	200.0	BRL	100	72-127	5	19	
m,p-Xylenes	387	10	ug/L	400.0	BRL	97	66-144	5	19	
Methyl Butyl Ketone (2-Hexanone)	186	50	ug/L	200.0	BRL	93	65-130	2	23	
Methyl Ethyl Ketone (2-Butanone)	186	50	ug/L	200.0	BRL	93	65-137	3	23	
Methyl Isobutyl Ketone	189	50	ug/L	200.0	BRL	95	64-137	5	24	
Methylene Chloride	173	10	ug/L	200.0	BRL	87	71-134	4	17	
Methyl-tert-Butyl Ether	189	5.0	ug/L	200.0	BRL	94	71-133	5	19	
Naphthalene	209	10	ug/L	200.0	BRL	104	63-134	0.3	32	
n-Butylbenzene	203	10	ug/L	200.0	BRL	101	69-132	4	21	
n-Propylbenzene	197	5.0	ug/L	200.0	BRL	98	75-130	6	18	
o-Xylene	190	5.0	ug/L	200.0	BRL	95	75-131	4	20	
sec-Butylbenzene	199	5.0	ug/L	200.0	BRL	100	72-130	6	20	
Styrene	192	5.0	ug/L	200.0	BRL	96	77-128	4	17	
tert-Butylbenzene	201	5.0	ug/L	200.0	BRL	100	72-130	5	20	
Tetrachloroethylene	191	5.0	ug/L	200.0	BRL	96	76-130	5	20	
Toluene	194	5.0	ug/L	200.0	BRL	97	72-135	4	18	
trans-1,2-Dichloroethylene	183	5.0	ug/L	200.0	BRL	92	73-141	9	18	
trans-1,3-Dichloropropylene	195	5.0	ug/L	200.0	BRL	98	64-137	2	21	
Trichloroethylene	189	5.0	ug/L	200.0	BRL	94	72-133	5	17	
Trichlorofluoromethane	204	5.0	ug/L	200.0	BRL	102	61-152	6	27	
Vinyl acetate	182	20	ug/L	200.0	BRL	91	80-154	5	18	
Vinyl chloride	185	5.0	ug/L	200.0	BRL	92	54-146	7	25	
Xylenes, total	577	15	ug/L	600.0	BRL	96	66-144	5	20	
Surrogate: 4-Bromofluorobenzene	*50.7*		*ug/L*	*50.00*		*101*	*80-124*			
Surrogate: Dibromofluoromethane	*51.5*		*ug/L*	*50.00*		*103*	*75-129*			
Surrogate: Toluene-d8	*49.2*		*ug/L*	*50.00*		*98*	*77-123*			

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1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0354 - 5030B										
Blank (P0C0354-BLK1)				Prepared & Analyzed: 03/18/20						
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
Acetone	0.820	5.0	ug/L							J
Benzene	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	5.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
o-Xylene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	1.5	ug/L							
Surrogate: 4-Bromofluorobenzene	*50.3*		*ug/L*	*50.00*		*101*	*80-124*			
Surrogate: Dibromofluoromethane	*50.1*		*ug/L*	*50.00*		*100*	*75-129*			
Surrogate: Toluene-d8	*51.2*		*ug/L*	*50.00*		*102*	*77-123*			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0354 - 5030B										
LCS (P0C0354-BS1)				Prepared & Analyzed: 03/18/20						
1,1,1,2-Tetrachloroethane	21.2	0.50	ug/L	20.00		106	79-134			
1,1,1-Trichloroethane	21.3	0.50	ug/L	20.00		107	75-136			
1,1,2,2-Tetrachloroethane	21.6	0.50	ug/L	20.00		108	62-127			
1,1,2-Trichloroethane	20.8	0.50	ug/L	20.00		104	70-140			
1,1-Dichloroethane	21.2	0.50	ug/L	20.00		106	78-130			
1,1-Dichloroethylene	19.9	0.50	ug/L	20.00		100	70-154			
1,1-Dichloropropylene	20.4	0.50	ug/L	20.00		102	71-136			
1,2,3-Trichlorobenzene	25.1	2.0	ug/L	20.00		125	58-144			
1,2,3-Trichloropropane	21.0	1.0	ug/L	20.00		105	71-127			
1,2,4-Trichlorobenzene	23.8	1.0	ug/L	20.00		119	66-139			
1,2,4-Trimethylbenzene	22.1	0.50	ug/L	20.00		111	75-133			
1,2-Dibromo-3-chloropropane	23.2	2.0	ug/L	20.00		116	63-134			
1,2-Dibromoethane	21.9	0.50	ug/L	20.00		110	77-135			
1,2-Dichlorobenzene	21.7	0.50	ug/L	20.00		109	78-128			
1,2-Dichloroethane	19.6	0.50	ug/L	20.00		98	68-131			
1,2-Dichloropropane	20.8	0.50	ug/L	20.00		104	77-130			
1,3,5-Trimethylbenzene	21.9	0.50	ug/L	20.00		110	75-131			
1,3-Dichlorobenzene	21.5	0.50	ug/L	20.00		108	77-125			
1,3-Dichloropropane	21.2	0.50	ug/L	20.00		106	76-132			
1,4-Dichlorobenzene	21.0	0.50	ug/L	20.00		105	75-126			
2,2-Dichloropropane	22.5	2.0	ug/L	20.00		112	29-149			
2-Chlorotoluene	21.8	0.50	ug/L	20.00		109	74-126			
4-Chlorotoluene	21.2	0.50	ug/L	20.00		106	78-129			
4-Isopropyltoluene	22.3	0.50	ug/L	20.00		112	69-132			
Acetone	31.7	5.0	ug/L	40.00		79	40-166			
Acrolein	48.0	20	ug/L	40.00		120	70-130			
Acrylonitrile	43.1	20	ug/L	40.00		108	81-127			
Benzene	20.4	0.50	ug/L	20.00		102	77-128			
Bromobenzene	21.6	0.50	ug/L	20.00		108	78-129			
Bromochloromethane	20.9	0.50	ug/L	20.00		104	78-135			
Bromodichloromethane	20.2	0.50	ug/L	20.00		101	76-138			
Bromoform	19.0	1.0	ug/L	20.00		95	71-135			
Bromomethane	19.8	1.0	ug/L	20.00		99	41-168			
Carbon disulfide	20.4	5.0	ug/L	20.00		102	59-135			
Carbon Tetrachloride	21.5	0.50	ug/L	20.00		107	72-142			
Chlorobenzene	20.7	0.50	ug/L	20.00		104	78-119			
Chloroethane	17.6	0.50	ug/L	20.00		88	57-142			
Chloroform	20.4	0.50	ug/L	20.00		102	77-130			
Chloromethane	25.1	0.50	ug/L	20.00		126	47-145			
cis-1,2-Dichloroethylene	20.0	0.50	ug/L	20.00		100	76-141			
cis-1,3-Dichloropropylene	22.5	0.50	ug/L	20.00		112	65-140			
Dibromochloromethane	22.2	0.50	ug/L	20.00		111	75-134			
Dibromomethane	20.6	0.50	ug/L	20.00		103	76-138			
Dichlorodifluoromethane	29.0	5.0	ug/L	20.00		145	28-163			
Ethylbenzene	21.4	0.50	ug/L	20.00		107	80-127			
Hexachlorobutadiene	22.9	2.0	ug/L	20.00		114	61-134			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0354 - 5030B										
LCS (P0C0354-BS1)				Prepared & Analyzed: 03/18/20						
Isopropyl Ether	20.9	0.50	ug/L	20.00		104	60-154			
Isopropylbenzene (Cumene)	22.5	0.50	ug/L	20.00		112	70-130			
m,p-Xylenes	43.9	1.0	ug/L	40.00		110	77-133			
Methyl Butyl Ketone (2-Hexanone)	22.1	5.0	ug/L	20.00		111	64-137			
Methyl Ethyl Ketone (2-Butanone)	18.4	5.0	ug/L	20.00		92	71-134			
Methyl Isobutyl Ketone	21.8	5.0	ug/L	20.00		109	69-134			
Methylene Chloride	19.6	1.0	ug/L	20.00		98	73-131			
Methyl-tert-Butyl Ether	20.6	0.50	ug/L	20.00		103	68-135			
Naphthalene	22.4	1.0	ug/L	20.00		112	64-136			
n-Butylbenzene	22.3	1.0	ug/L	20.00		112	68-134			
n-Propylbenzene	21.7	0.50	ug/L	20.00		108	72-132			
o-Xylene	21.4	0.50	ug/L	20.00		107	78-128			
sec-Butylbenzene	22.3	0.50	ug/L	20.00		112	71-131			
Styrene	21.8	0.50	ug/L	20.00		109	78-129			
tert-Butylbenzene	21.9	0.50	ug/L	20.00		109	70-132			
Tetrachloroethylene	21.4	0.50	ug/L	20.00		107	80-129			
Toluene	20.8	0.50	ug/L	20.00		104	76-131			
trans-1,2-Dichloroethylene	20.4	0.50	ug/L	20.00		102	76-135			
trans-1,3-Dichloropropylene	21.7	0.50	ug/L	20.00		109	67-140			
Trichloroethylene	20.7	0.50	ug/L	20.00		104	77-133			
Trichlorofluoromethane	23.6	0.50	ug/L	20.00		118	62-148			
Vinyl acetate	23.5	2.0	ug/L	20.00		118	34-167			
Vinyl chloride	22.7	0.50	ug/L	20.00		114	57-141			
Xylenes, total	65.2	1.5	ug/L	60.00		109	77-133			
Surrogate: 4-Bromofluorobenzene	*49.9*		*ug/L*	*50.00*		*100*	*80-124*			
Surrogate: Dibromofluoromethane	*49.5*		*ug/L*	*50.00*		*99*	*75-129*			
Surrogate: Toluene-d8	*51.0*		*ug/L*	*50.00*		*102*	*77-123*			

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Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0354 - 5030B										
Matrix Spike (P0C0354-MS1)	**Source: 0030166-30**			Prepared & Analyzed: 03/18/20						
1,1,1,2-Tetrachloroethane	202	5.0	ug/L	200.0	BRL	101	78-134			
1,1,1-Trichloroethane	211	5.0	ug/L	200.0	BRL	106	67-145			
1,1,2,2-Tetrachloroethane	206	5.0	ug/L	200.0	BRL	103	68-123			
1,1,2-Trichloroethane	202	5.0	ug/L	200.0	BRL	101	75-134			
1,1-Dichloroethane	210	5.0	ug/L	200.0	BRL	105	75-134			
1,1-Dichloroethylene	196	5.0	ug/L	200.0	BRL	98	65-162			
1,1-Dichloropropylene	202	5.0	ug/L	200.0	BRL	101	68-140			
1,2,3-Trichlorobenzene	226	20	ug/L	200.0	BRL	113	56-146			
1,2,3-Trichloropropane	199	10	ug/L	200.0	BRL	100	73-122			
1,2,4-Trichlorobenzene	224	10	ug/L	200.0	BRL	112	67-135			
1,2,4-Trimethylbenzene	217	5.0	ug/L	200.0	BRL	108	75-131			
1,2-Dibromo-3-chloropropane	204	20	ug/L	200.0	BRL	102	64-133			
1,2-Dibromoethane	206	5.0	ug/L	200.0	BRL	103	80-129			
1,2-Dichlorobenzene	213	5.0	ug/L	200.0	BRL	107	80-125			
1,2-Dichloroethane	192	5.0	ug/L	200.0	BRL	96	69-129			
1,2-Dichloropropane	205	5.0	ug/L	200.0	BRL	103	75-131			
1,3,5-Trimethylbenzene	218	5.0	ug/L	200.0	BRL	109	75-131			
1,3-Dichlorobenzene	211	5.0	ug/L	200.0	BRL	106	79-122			
1,3-Dichloropropane	205	5.0	ug/L	200.0	BRL	103	80-125			
1,4-Dichlorobenzene	204	5.0	ug/L	200.0	BRL	102	76-124			
2,2-Dichloropropane	200	20	ug/L	200.0	BRL	100	21-140			
2-Chlorotoluene	216	5.0	ug/L	200.0	BRL	108	75-125			
4-Chlorotoluene	209	5.0	ug/L	200.0	BRL	105	76-130			
4-Isopropyltoluene	218	5.0	ug/L	200.0	BRL	109	72-129			
Acetone	304	50	ug/L	400.0	BRL	76	40-162			
Acrolein	416	200	ug/L	400.0	BRL	104	70-130			
Acrylonitrile	389	200	ug/L	400.0	BRL	97	78-129			
Benzene	202	5.0	ug/L	200.0	BRL	101	73-131			
Bromobenzene	211	5.0	ug/L	200.0	BRL	106	80-125			
Bromochloromethane	209	5.0	ug/L	200.0	BRL	104	78-135			
Bromodichloromethane	195	5.0	ug/L	200.0	BRL	97	74-138			
Bromoform	172	10	ug/L	200.0	BRL	86	72-130			
Bromomethane	162	10	ug/L	200.0	BRL	81	41-173			
Carbon disulfide	198	50	ug/L	200.0	BRL	99	59-138			
Carbon Tetrachloride	206	5.0	ug/L	200.0	BRL	103	66-149			
Chlorobenzene	203	5.0	ug/L	200.0	BRL	102	76-119			
Chloroethane	172	5.0	ug/L	200.0	BRL	86	52-153			
Chloroform	205	5.0	ug/L	200.0	BRL	102	74-136			
Chloromethane	239	5.0	ug/L	200.0	BRL	120	39-155			
cis-1,2-Dichloroethylene	201	5.0	ug/L	200.0	BRL	101	74-144			
cis-1,3-Dichloropropylene	208	5.0	ug/L	200.0	BRL	104	64-132			
Dibromochloromethane	208	5.0	ug/L	200.0	BRL	104	77-131			
Dibromomethane	204	5.0	ug/L	200.0	BRL	102	76-136			
Dichlorodifluoromethane	285	50	ug/L	200.0	BRL	142	22-170			
Ethylbenzene	207	5.0	ug/L	200.0	BRL	103	78-130			
Hexachlorobutadiene	219	20	ug/L	200.0	BRL	110	63-132			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0354 - 5030B										
Matrix Spike (P0C0354-MS1)	**Source: 0030166-30**			Prepared & Analyzed: 03/18/20						
Isopropyl Ether	205	5.0	ug/L	200.0	BRL	103	62-154			
Isopropylbenzene (Cumene)	221	5.0	ug/L	200.0	BRL	111	72-127			
m,p-Xylenes	428	10	ug/L	400.0	BRL	107	66-144			
Methyl Butyl Ketone (2-Hexanone)	202	50	ug/L	200.0	BRL	101	65-130			
Methyl Ethyl Ketone (2-Butanone)	176	50	ug/L	200.0	BRL	88	65-137			
Methyl Isobutyl Ketone	204	50	ug/L	200.0	BRL	102	64-137			
Methylene Chloride	192	10	ug/L	200.0	BRL	96	71-134			
Methyl-tert-Butyl Ether	200	5.0	ug/L	200.0	BRL	100	71-133			
Naphthalene	202	10	ug/L	200.0	BRL	101	63-134			
n-Butylbenzene	214	10	ug/L	200.0	BRL	107	69-132			
n-Propylbenzene	213	5.0	ug/L	200.0	BRL	106	75-130			
o-Xylene	210	5.0	ug/L	200.0	BRL	105	75-131			
sec-Butylbenzene	218	5.0	ug/L	200.0	BRL	109	72-130			
Styrene	223	5.0	ug/L	200.0	BRL	112	77-128			
tert-Butylbenzene	216	5.0	ug/L	200.0	BRL	108	72-130			
Tetrachloroethylene	208	5.0	ug/L	200.0	BRL	104	76-130			
Toluene	206	5.0	ug/L	200.0	BRL	103	72-135			
trans-1,2-Dichloroethylene	199	5.0	ug/L	200.0	BRL	100	73-141			
trans-1,3-Dichloropropylene	202	5.0	ug/L	200.0	BRL	101	64-137			
Trichloroethylene	205	5.0	ug/L	200.0	BRL	102	72-133			
Trichlorofluoromethane	237	5.0	ug/L	200.0	BRL	118	61-152			
Vinyl acetate	217	20	ug/L	200.0	BRL	108	80-154			
Vinyl chloride	220	5.0	ug/L	200.0	BRL	110	54-146			
Xylenes, total	637	15	ug/L	600.0	BRL	106	66-144			
Surrogate: 4-Bromofluorobenzene	*49.8*		*ug/L*	*50.00*		*100*	*80-124*			
Surrogate: Dibromofluoromethane	*51.0*		*ug/L*	*50.00*		*102*	*75-129*			
Surrogate: Toluene-d8	*51.2*		*ug/L*	*50.00*		*102*	*77-123*			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0354 - 5030B										
Matrix Spike Dup (P0C0354-MSD1)	**Source: 0030166-30**			Prepared & Analyzed: 03/18/20						
1,1,1,2-Tetrachloroethane	201	5.0	ug/L	200.0	BRL	100	78-134	0.5	19	
1,1,1-Trichloroethane	198	5.0	ug/L	200.0	BRL	99	67-145	7	18	
1,1,2,2-Tetrachloroethane	214	5.0	ug/L	200.0	BRL	107	68-123	4	19	
1,1,2-Trichloroethane	204	5.0	ug/L	200.0	BRL	102	75-134	1	18	
1,1-Dichloroethane	198	5.0	ug/L	200.0	BRL	99	75-134	6	18	
1,1-Dichloroethylene	184	5.0	ug/L	200.0	BRL	92	65-162	7	20	
1,1-Dichloropropylene	189	5.0	ug/L	200.0	BRL	95	68-140	6	19	
1,2,3-Trichlorobenzene	220	20	ug/L	200.0	BRL	110	56-146	2	31	
1,2,3-Trichloropropane	210	10	ug/L	200.0	BRL	105	73-122	5	18	
1,2,4-Trichlorobenzene	219	10	ug/L	200.0	BRL	110	67-135	2	20	
1,2,4-Trimethylbenzene	211	5.0	ug/L	200.0	BRL	105	75-131	3	18	
1,2-Dibromo-3-chloropropane	217	20	ug/L	200.0	BRL	109	64-133	6	25	
1,2-Dibromoethane	212	5.0	ug/L	200.0	BRL	106	80-129	3	19	
1,2-Dichlorobenzene	211	5.0	ug/L	200.0	BRL	105	80-125	1	16	
1,2-Dichloroethane	192	5.0	ug/L	200.0	BRL	96	69-129	0	17	
1,2-Dichloropropane	199	5.0	ug/L	200.0	BRL	100	75-131	3	17	
1,3,5-Trimethylbenzene	210	5.0	ug/L	200.0	BRL	105	75-131	4	19	
1,3-Dichlorobenzene	206	5.0	ug/L	200.0	BRL	103	79-122	3	17	
1,3-Dichloropropane	208	5.0	ug/L	200.0	BRL	104	80-125	1	18	
1,4-Dichlorobenzene	203	5.0	ug/L	200.0	BRL	101	76-124	0.8	17	
2,2-Dichloropropane	185	20	ug/L	200.0	BRL	93	21-140	8	19	
2-Chlorotoluene	208	5.0	ug/L	200.0	BRL	104	75-125	4	24	
4-Chlorotoluene	201	5.0	ug/L	200.0	BRL	101	76-130	4	16	
4-Isopropyltoluene	208	5.0	ug/L	200.0	BRL	104	72-129	4	19	
Acetone	323	50	ug/L	400.0	BRL	81	40-162	6	23	
Acrolein	459	200	ug/L	400.0	BRL	115	70-130	10	20	
Acrylonitrile	404	200	ug/L	400.0	BRL	101	78-129	4	20	
Benzene	193	5.0	ug/L	200.0	BRL	97	73-131	4	17	
Bromobenzene	209	5.0	ug/L	200.0	BRL	105	80-125	1	18	
Bromochloromethane	207	5.0	ug/L	200.0	BRL	103	78-135	1	17	
Bromodichloromethane	192	5.0	ug/L	200.0	BRL	96	74-138	1	19	
Bromoform	176	10	ug/L	200.0	BRL	88	72-130	3	22	
Bromomethane	172	10	ug/L	200.0	BRL	86	41-173	6	33	
Carbon disulfide	187	50	ug/L	200.0	BRL	94	59-138	6	27	
Carbon Tetrachloride	192	5.0	ug/L	200.0	BRL	96	66-149	7	23	
Chlorobenzene	198	5.0	ug/L	200.0	BRL	99	76-119	2	20	
Chloroethane	162	5.0	ug/L	200.0	BRL	81	52-153	6	24	
Chloroform	196	5.0	ug/L	200.0	BRL	98	74-136	4	19	
Chloromethane	245	5.0	ug/L	200.0	BRL	123	39-155	3	20	
cis-1,2-Dichloroethylene	194	5.0	ug/L	200.0	BRL	97	74-144	4	17	
cis-1,3-Dichloropropylene	206	5.0	ug/L	200.0	BRL	103	64-132	1	18	
Dibromochloromethane	211	5.0	ug/L	200.0	BRL	106	77-131	1	21	
Dibromomethane	204	5.0	ug/L	200.0	BRL	102	76-136	0.4	18	
Dichlorodifluoromethane	261	50	ug/L	200.0	BRL	130	22-170	9	22	
Ethylbenzene	201	5.0	ug/L	200.0	BRL	101	78-130	3	18	
Hexachlorobutadiene	202	20	ug/L	200.0	BRL	101	63-132	8	26	

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0354 - 5030B										
Matrix Spike Dup (P0C0354-MSD1)	**Source: 0030166-30**			Prepared & Analyzed: 03/18/20						
Isopropyl Ether	203	5.0	ug/L	200.0	BRL	101	62-154	1	18	
Isopropylbenzene (Cumene)	212	5.0	ug/L	200.0	BRL	106	72-127	4	19	
m,p-Xylenes	416	10	ug/L	400.0	BRL	104	66-144	3	19	
Methyl Butyl Ketone (2-Hexanone)	213	50	ug/L	200.0	BRL	106	65-130	5	23	
Methyl Ethyl Ketone (2-Butanone)	183	50	ug/L	200.0	BRL	91	65-137	4	23	
Methyl Isobutyl Ketone	214	50	ug/L	200.0	BRL	107	64-137	5	24	
Methylene Chloride	187	10	ug/L	200.0	BRL	94	71-134	3	17	
Methyl-tert-Butyl Ether	202	5.0	ug/L	200.0	BRL	101	71-133	0.8	19	
Naphthalene	211	10	ug/L	200.0	BRL	105	63-134	4	32	
n-Butylbenzene	206	10	ug/L	200.0	BRL	103	69-132	4	21	
n-Propylbenzene	204	5.0	ug/L	200.0	BRL	102	75-130	4	18	
o-Xylene	204	5.0	ug/L	200.0	BRL	102	75-131	3	20	
sec-Butylbenzene	206	5.0	ug/L	200.0	BRL	103	72-130	6	20	
Styrene	209	5.0	ug/L	200.0	BRL	105	77-128	7	17	
tert-Butylbenzene	206	5.0	ug/L	200.0	BRL	103	72-130	5	20	
Tetrachloroethylene	202	5.0	ug/L	200.0	BRL	101	76-130	3	20	
Toluene	197	5.0	ug/L	200.0	BRL	99	72-135	4	18	
trans-1,2-Dichloroethylene	193	5.0	ug/L	200.0	BRL	96	73-141	3	18	
trans-1,3-Dichloropropylene	203	5.0	ug/L	200.0	BRL	101	64-137	0.2	21	
Trichloroethylene	194	5.0	ug/L	200.0	BRL	97	72-133	5	17	
Trichlorofluoromethane	219	5.0	ug/L	200.0	BRL	109	61-152	8	27	
Vinyl acetate	222	20	ug/L	200.0	BRL	111	80-154	2	18	
Vinyl chloride	210	5.0	ug/L	200.0	BRL	105	54-146	5	25	
Xylenes, total	620	15	ug/L	600.0	BRL	103	66-144	3	20	
Surrogate: 4-Bromofluorobenzene	*49.9*		*ug/L*	*50.00*		*100*	*80-124*			
Surrogate: Dibromofluoromethane	*50.6*		*ug/L*	*50.00*		*101*	*75-129*			
Surrogate: Toluene-d8	*51.5*		*ug/L*	*50.00*		*103*	*77-123*			

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HRP Associates, Inc.
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1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0355 - 5030B										
Blank (P0C0355-BLK1)				Prepared & Analyzed: 03/18/20						
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
Acetone	0.620	5.0	ug/L							J
Benzene	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	5.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
o-Xylene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	1.5	ug/L							
Surrogate: 4-Bromofluorobenzene	*50.1*		*ug/L*	*50.00*		*100*	*80-124*			
Surrogate: Dibromofluoromethane	*51.6*		*ug/L*	*50.00*		*103*	*75-129*			
Surrogate: Toluene-d8	*48.9*		*ug/L*	*50.00*		*98*	*77-123*			

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1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0355 - 5030B										
LCS (P0C0355-BS1)				Prepared & Analyzed: 03/18/20						
1,1,1,2-Tetrachloroethane	18.5	0.50	ug/L	20.00		93	79-134			
1,1,1-Trichloroethane	18.4	0.50	ug/L	20.00		92	75-136			
1,1,2,2-Tetrachloroethane	18.0	0.50	ug/L	20.00		90	62-127			
1,1,2-Trichloroethane	18.7	0.50	ug/L	20.00		94	70-140			
1,1-Dichloroethane	19.1	0.50	ug/L	20.00		95	78-130			
1,1-Dichloroethylene	17.8	0.50	ug/L	20.00		89	70-154			
1,1-Dichloropropylene	18.1	0.50	ug/L	20.00		90	71-136			
1,2,3-Trichlorobenzene	22.1	2.0	ug/L	20.00		110	58-144			
1,2,3-Trichloropropane	17.7	1.0	ug/L	20.00		89	71-127			
1,2,4-Trichlorobenzene	20.8	1.0	ug/L	20.00		104	66-139			
1,2,4-Trimethylbenzene	18.8	0.50	ug/L	20.00		94	75-133			
1,2-Dibromo-3-chloropropane	18.9	2.0	ug/L	20.00		94	63-134			
1,2-Dibromoethane	18.4	0.50	ug/L	20.00		92	77-135			
1,2-Dichlorobenzene	20.0	0.50	ug/L	20.00		100	78-128			
1,2-Dichloroethane	17.9	0.50	ug/L	20.00		89	68-131			
1,2-Dichloropropane	18.8	0.50	ug/L	20.00		94	77-130			
1,3,5-Trimethylbenzene	19.4	0.50	ug/L	20.00		97	75-131			
1,3-Dichlorobenzene	19.6	0.50	ug/L	20.00		98	77-125			
1,3-Dichloropropane	18.1	0.50	ug/L	20.00		90	76-132			
1,4-Dichlorobenzene	19.0	0.50	ug/L	20.00		95	75-126			
2,2-Dichloropropane	18.8	2.0	ug/L	20.00		94	29-149			
2-Chlorotoluene	19.6	0.50	ug/L	20.00		98	74-126			
4-Chlorotoluene	18.7	0.50	ug/L	20.00		93	78-129			
4-Isopropyltoluene	19.8	0.50	ug/L	20.00		99	69-132			
Acetone	27.7	5.0	ug/L	40.00		69	40-166			
Acrolein	38.0	20	ug/L	40.00		95	70-130			
Acrylonitrile	36.9	20	ug/L	40.00		92	81-127			
Benzene	18.8	0.50	ug/L	20.00		94	77-128			
Bromobenzene	18.6	0.50	ug/L	20.00		93	78-129			
Bromochloromethane	19.1	0.50	ug/L	20.00		96	78-135			
Bromodichloromethane	18.1	0.50	ug/L	20.00		90	76-138			
Bromoform	18.4	1.0	ug/L	20.00		92	71-135			
Bromomethane	21.9	1.0	ug/L	20.00		109	41-168			
Carbon disulfide	18.4	5.0	ug/L	20.00		92	59-135			
Carbon Tetrachloride	18.1	0.50	ug/L	20.00		91	72-142			
Chlorobenzene	18.4	0.50	ug/L	20.00		92	78-119			
Chloroethane	20.1	0.50	ug/L	20.00		100	57-142			
Chloroform	18.6	0.50	ug/L	20.00		93	77-130			
Chloromethane	21.4	0.50	ug/L	20.00		107	47-145			
cis-1,2-Dichloroethylene	17.8	0.50	ug/L	20.00		89	76-141			
cis-1,3-Dichloropropylene	19.4	0.50	ug/L	20.00		97	65-140			
Dibromochloromethane	18.4	0.50	ug/L	20.00		92	75-134			
Dibromomethane	18.9	0.50	ug/L	20.00		95	76-138			
Dichlorodifluoromethane	22.6	5.0	ug/L	20.00		113	28-163			
Ethylbenzene	18.4	0.50	ug/L	20.00		92	80-127			
Hexachlorobutadiene	22.3	2.0	ug/L	20.00		111	61-134			

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HRP Associates, Inc.
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Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0355 - 5030B										
LCS (P0C0355-BS1)				Prepared & Analyzed: 03/18/20						
Isopropyl Ether	18.6	0.50	ug/L	20.00		93	60-154			
Isopropylbenzene (Cumene)	19.2	0.50	ug/L	20.00		96	70-130			
m,p-Xylenes	37.8	1.0	ug/L	40.00		95	77-133			
Methyl Butyl Ketone (2-Hexanone)	17.6	5.0	ug/L	20.00		88	64-137			
Methyl Ethyl Ketone (2-Butanone)	18.0	5.0	ug/L	20.00		90	71-134			
Methyl Isobutyl Ketone	18.6	5.0	ug/L	20.00		93	69-134			
Methylene Chloride	17.0	1.0	ug/L	20.00		85	73-131			
Methyl-tert-Butyl Ether	18.5	0.50	ug/L	20.00		92	68-135			
Naphthalene	19.9	1.0	ug/L	20.00		100	64-136			
n-Butylbenzene	19.6	1.0	ug/L	20.00		98	68-134			
n-Propylbenzene	19.2	0.50	ug/L	20.00		96	72-132			
o-Xylene	18.5	0.50	ug/L	20.00		92	78-128			
sec-Butylbenzene	19.5	0.50	ug/L	20.00		98	71-131			
Styrene	18.9	0.50	ug/L	20.00		94	78-129			
tert-Butylbenzene	19.4	0.50	ug/L	20.00		97	70-132			
Tetrachloroethylene	18.9	0.50	ug/L	20.00		94	80-129			
Toluene	18.8	0.50	ug/L	20.00		94	76-131			
trans-1,2-Dichloroethylene	18.2	0.50	ug/L	20.00		91	76-135			
trans-1,3-Dichloropropylene	18.9	0.50	ug/L	20.00		94	67-140			
Trichloroethylene	18.5	0.50	ug/L	20.00		93	77-133			
Trichlorofluoromethane	20.2	0.50	ug/L	20.00		101	62-148			
Vinyl acetate	20.3	2.0	ug/L	20.00		101	34-167			
Vinyl chloride	18.8	0.50	ug/L	20.00		94	57-141			
Xylenes, total	56.3	1.5	ug/L	60.00		94	77-133			
Surrogate: 4-Bromofluorobenzene	*50.0*		*ug/L*	*50.00*		*100*	*80-124*			
Surrogate: Dibromofluoromethane	*52.1*		*ug/L*	*50.00*		*104*	*75-129*			
Surrogate: Toluene-d8	*49.3*		*ug/L*	*50.00*		*99*	*77-123*			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0355 - 5030B										
Matrix Spike (P0C0355-MS1)	**Source: 0030166-27**			Prepared & Analyzed: 03/18/20						
1,1,1,2-Tetrachloroethane	198	5.0	ug/L	200.0	BRL	99	78-134			
1,1,1-Trichloroethane	242	5.0	ug/L	200.0	69.8	86	67-145			
1,1,2,2-Tetrachloroethane	201	5.0	ug/L	200.0	BRL	100	68-123			
1,1,2-Trichloroethane	204	5.0	ug/L	200.0	BRL	102	75-134			
1,1-Dichloroethane	368	5.0	ug/L	200.0	157	106	75-134			
1,1-Dichloroethylene	501	5.0	ug/L	200.0	311	95	65-162			
1,1-Dichloropropylene	200	5.0	ug/L	200.0	BRL	100	68-140			
1,2,3-Trichlorobenzene	232	20	ug/L	200.0	BRL	116	56-146			
1,2,3-Trichloropropane	197	10	ug/L	200.0	BRL	99	73-122			
1,2,4-Trichlorobenzene	217	10	ug/L	200.0	BRL	108	67-135			
1,2,4-Trimethylbenzene	210	5.0	ug/L	200.0	BRL	105	75-131			
1,2-Dibromo-3-chloropropane	194	20	ug/L	200.0	BRL	97	64-133			
1,2-Dibromoethane	198	5.0	ug/L	200.0	BRL	99	80-129			
1,2-Dichlorobenzene	218	5.0	ug/L	200.0	BRL	109	80-125			
1,2-Dichloroethane	196	5.0	ug/L	200.0	3.20	97	69-129			
1,2-Dichloropropane	204	5.0	ug/L	200.0	BRL	102	75-131			
1,3,5-Trimethylbenzene	217	5.0	ug/L	200.0	BRL	108	75-131			
1,3-Dichlorobenzene	212	5.0	ug/L	200.0	BRL	106	79-122			
1,3-Dichloropropane	198	5.0	ug/L	200.0	BRL	99	80-125			
1,4-Dichlorobenzene	208	5.0	ug/L	200.0	BRL	104	76-124			
2,2-Dichloropropane	208	20	ug/L	200.0	BRL	104	21-140			
2-Chlorotoluene	217	5.0	ug/L	200.0	BRL	108	75-125			
4-Chlorotoluene	205	5.0	ug/L	200.0	BRL	102	76-130			
4-Isopropyltoluene	219	5.0	ug/L	200.0	BRL	109	72-129			
Acetone	302	50	ug/L	400.0	BRL	75	40-162			
Acrolein	387	200	ug/L	400.0	BRL	97	70-130			
Acrylonitrile	397	200	ug/L	400.0	BRL	99	78-129			
Benzene	205	5.0	ug/L	200.0	BRL	102	73-131			
Bromobenzene	205	5.0	ug/L	200.0	BRL	102	80-125			
Bromochloromethane	207	5.0	ug/L	200.0	BRL	103	78-135			
Bromodichloromethane	199	5.0	ug/L	200.0	BRL	100	74-138			
Bromoform	192	10	ug/L	200.0	BRL	96	72-130			
Bromomethane	220	10	ug/L	200.0	BRL	110	41-173			
Carbon disulfide	206	50	ug/L	200.0	BRL	103	59-138			
Carbon Tetrachloride	205	5.0	ug/L	200.0	BRL	103	66-149			
Chlorobenzene	202	5.0	ug/L	200.0	BRL	101	76-119			
Chloroethane	229	5.0	ug/L	200.0	BRL	115	52-153			
Chloroform	210	5.0	ug/L	200.0	4.40	103	74-136			
Chloromethane	232	5.0	ug/L	200.0	BRL	116	39-155			
cis-1,2-Dichloroethylene	216	5.0	ug/L	200.0	20.2	98	74-144			
cis-1,3-Dichloropropylene	208	5.0	ug/L	200.0	BRL	104	64-132			
Dibromochloromethane	200	5.0	ug/L	200.0	BRL	100	77-131			
Dibromomethane	197	5.0	ug/L	200.0	BRL	98	76-136			
Dichlorodifluoromethane	257	50	ug/L	200.0	BRL	128	22-170			
Ethylbenzene	202	5.0	ug/L	200.0	BRL	101	78-130			
Hexachlorobutadiene	242	20	ug/L	200.0	BRL	121	63-132			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0355 - 5030B										
Matrix Spike (P0C0355-MS1)	**Source: 0030166-27**			Prepared & Analyzed: 03/18/20						
Isopropyl Ether	200	5.0	ug/L	200.0	BRL	100	62-154			
Isopropylbenzene (Cumene)	218	5.0	ug/L	200.0	BRL	109	72-127			
m,p-Xylenes	414	10	ug/L	400.0	BRL	104	66-144			
Methyl Butyl Ketone (2-Hexanone)	186	50	ug/L	200.0	BRL	93	65-130			
Methyl Ethyl Ketone (2-Butanone)	188	50	ug/L	200.0	BRL	94	65-137			
Methyl Isobutyl Ketone	193	50	ug/L	200.0	BRL	96	64-137			
Methylene Chloride	186	10	ug/L	200.0	BRL	93	71-134			
Methyl-tert-Butyl Ether	197	5.0	ug/L	200.0	BRL	98	71-133			
Naphthalene	200	10	ug/L	200.0	BRL	100	63-134			
n-Butylbenzene	216	10	ug/L	200.0	BRL	108	69-132			
n-Propylbenzene	216	5.0	ug/L	200.0	BRL	108	75-130			
o-Xylene	202	5.0	ug/L	200.0	BRL	101	75-131			
sec-Butylbenzene	216	5.0	ug/L	200.0	BRL	108	72-130			
Styrene	203	5.0	ug/L	200.0	BRL	101	77-128			
tert-Butylbenzene	218	5.0	ug/L	200.0	BRL	109	72-130			
Tetrachloroethylene	213	5.0	ug/L	200.0	BRL	106	76-130			
Toluene	207	5.0	ug/L	200.0	BRL	104	72-135			
trans-1,2-Dichloroethylene	203	5.0	ug/L	200.0	BRL	101	73-141			
trans-1,3-Dichloropropylene	202	5.0	ug/L	200.0	BRL	101	64-137			
Trichloroethylene	274	5.0	ug/L	200.0	71.4	101	72-133			
Trichlorofluoromethane	236	5.0	ug/L	200.0	BRL	118	61-152			
Vinyl acetate	208	20	ug/L	200.0	BRL	104	80-154			
Vinyl chloride	213	5.0	ug/L	200.0	2.20	106	54-146			
Xylenes, total	617	15	ug/L	600.0	BRL	103	66-144			
Surrogate: 4-Bromofluorobenzene	*49.9*		*ug/L*	*50.00*		*100*	*80-124*			
Surrogate: Dibromofluoromethane	*50.9*		*ug/L*	*50.00*		*102*	*75-129*			
Surrogate: Toluene-d8	*49.6*		*ug/L*	*50.00*		*99*	*77-123*			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0355 - 5030B										
Matrix Spike Dup (P0C0355-MSD1)		**Source: 0030166-27**		Prepared & Analyzed: 03/18/20						
1,1,1,2-Tetrachloroethane	188	5.0	ug/L	200.0	BRL	94	78-134	5	19	
1,1,1-Trichloroethane	223	5.0	ug/L	200.0	69.8	76	67-145	8	18	
1,1,2,2-Tetrachloroethane	192	5.0	ug/L	200.0	BRL	96	68-123	4	19	
1,1,2-Trichloroethane	198	5.0	ug/L	200.0	BRL	99	75-134	3	18	
1,1-Dichloroethane	344	5.0	ug/L	200.0	157	93	75-134	7	18	
1,1-Dichloroethylene	457	5.0	ug/L	200.0	311	73	65-162	9	20	
1,1-Dichloropropylene	184	5.0	ug/L	200.0	BRL	92	68-140	9	19	
1,2,3-Trichlorobenzene	241	20	ug/L	200.0	BRL	121	56-146	4	31	
1,2,3-Trichloropropane	188	10	ug/L	200.0	BRL	94	73-122	5	18	
1,2,4-Trichlorobenzene	218	10	ug/L	200.0	BRL	109	67-135	0.6	20	
1,2,4-Trimethylbenzene	196	5.0	ug/L	200.0	BRL	98	75-131	7	18	
1,2-Dibromo-3-chloropropane	201	20	ug/L	200.0	BRL	101	64-133	3	25	
1,2-Dibromoethane	190	5.0	ug/L	200.0	BRL	95	80-129	4	19	
1,2-Dichlorobenzene	211	5.0	ug/L	200.0	BRL	105	80-125	3	16	
1,2-Dichloroethane	185	5.0	ug/L	200.0	3.20	91	69-129	6	17	
1,2-Dichloropropane	191	5.0	ug/L	200.0	BRL	95	75-131	6	17	
1,3,5-Trimethylbenzene	198	5.0	ug/L	200.0	BRL	99	75-131	9	19	
1,3-Dichlorobenzene	200	5.0	ug/L	200.0	BRL	100	79-122	6	17	
1,3-Dichloropropane	187	5.0	ug/L	200.0	BRL	93	80-125	6	18	
1,4-Dichlorobenzene	197	5.0	ug/L	200.0	BRL	98	76-124	5	17	
2,2-Dichloropropane	188	20	ug/L	200.0	BRL	94	21-140	10	19	
2-Chlorotoluene	202	5.0	ug/L	200.0	BRL	101	75-125	7	24	
4-Chlorotoluene	194	5.0	ug/L	200.0	BRL	97	76-130	5	16	
4-Isopropyltoluene	200	5.0	ug/L	200.0	BRL	100	72-129	9	19	
Acetone	298	50	ug/L	400.0	BRL	75	40-162	1	23	
Acrolein	382	200	ug/L	400.0	BRL	96	70-130	1	20	
Acrylonitrile	389	200	ug/L	400.0	BRL	97	78-129	2	20	
Benzene	192	5.0	ug/L	200.0	BRL	96	73-131	7	17	
Bromobenzene	193	5.0	ug/L	200.0	BRL	97	80-125	6	18	
Bromochloromethane	202	5.0	ug/L	200.0	BRL	101	78-135	3	17	
Bromodichloromethane	190	5.0	ug/L	200.0	BRL	95	74-138	5	19	
Bromoform	191	10	ug/L	200.0	BRL	95	72-130	0.7	22	
Bromomethane	223	10	ug/L	200.0	BRL	112	41-173	1	33	
Carbon disulfide	187	50	ug/L	200.0	BRL	94	59-138	9	27	
Carbon Tetrachloride	183	5.0	ug/L	200.0	BRL	92	66-149	11	23	
Chlorobenzene	190	5.0	ug/L	200.0	BRL	95	76-119	6	20	
Chloroethane	209	5.0	ug/L	200.0	BRL	105	52-153	9	24	
Chloroform	198	5.0	ug/L	200.0	4.40	97	74-136	6	19	
Chloromethane	217	5.0	ug/L	200.0	BRL	108	39-155	7	20	
cis-1,2-Dichloroethylene	201	5.0	ug/L	200.0	20.2	90	74-144	8	17	
cis-1,3-Dichloropropylene	201	5.0	ug/L	200.0	BRL	101	64-132	3	18	
Dibromochloromethane	193	5.0	ug/L	200.0	BRL	96	77-131	4	21	
Dibromomethane	196	5.0	ug/L	200.0	BRL	98	76-136	0.2	18	
Dichlorodifluoromethane	229	50	ug/L	200.0	BRL	115	22-170	11	22	
Ethylbenzene	188	5.0	ug/L	200.0	BRL	94	78-130	7	18	
Hexachlorobutadiene	229	20	ug/L	200.0	BRL	114	63-132	6	26	

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0355 - 5030B										
Matrix Spike Dup (P0C0355-MSD1)	**Source: 0030166-27**			Prepared & Analyzed: 03/18/20						
Isopropyl Ether	189	5.0	ug/L	200.0	BRL	95	62-154	5	18	
Isopropylbenzene (Cumene)	201	5.0	ug/L	200.0	BRL	100	72-127	8	19	
m,p-Xylenes	387	10	ug/L	400.0	BRL	97	66-144	7	19	
Methyl Butyl Ketone (2-Hexanone)	188	50	ug/L	200.0	BRL	94	65-130	0.8	23	
Methyl Ethyl Ketone (2-Butanone)	197	50	ug/L	200.0	BRL	99	65-137	5	23	
Methyl Isobutyl Ketone	193	50	ug/L	200.0	BRL	96	64-137	0.05	24	
Methylene Chloride	177	10	ug/L	200.0	BRL	89	71-134	5	17	
Methyl-tert-Butyl Ether	190	5.0	ug/L	200.0	BRL	95	71-133	4	19	
Naphthalene	214	10	ug/L	200.0	BRL	107	63-134	7	32	
n-Butylbenzene	201	10	ug/L	200.0	BRL	100	69-132	7	21	
n-Propylbenzene	196	5.0	ug/L	200.0	BRL	98	75-130	10	18	
o-Xylene	189	5.0	ug/L	200.0	BRL	94	75-131	7	20	
sec-Butylbenzene	200	5.0	ug/L	200.0	BRL	100	72-130	8	20	
Styrene	192	5.0	ug/L	200.0	BRL	96	77-128	5	17	
tert-Butylbenzene	198	5.0	ug/L	200.0	BRL	99	72-130	10	20	
Tetrachloroethylene	194	5.0	ug/L	200.0	BRL	97	76-130	10	20	
Toluene	193	5.0	ug/L	200.0	BRL	97	72-135	7	18	
trans-1,2-Dichloroethylene	187	5.0	ug/L	200.0	BRL	94	73-141	8	18	
trans-1,3-Dichloropropylene	193	5.0	ug/L	200.0	BRL	97	64-137	5	21	
Trichloroethylene	260	5.0	ug/L	200.0	71.4	94	72-133	5	17	
Trichlorofluoromethane	208	5.0	ug/L	200.0	BRL	104	61-152	12	27	
Vinyl acetate	210	20	ug/L	200.0	BRL	105	80-154	1	18	
Vinyl chloride	193	5.0	ug/L	200.0	2.20	95	54-146	10	25	
Xylenes, total	576	15	ug/L	600.0	BRL	96	66-144	7	20	
Surrogate: 4-Bromofluorobenzene	*49.8*		*ug/L*	*50.00*		*100*	*80-124*			
Surrogate: Dibromofluoromethane	*51.3*		*ug/L*	*50.00*		*103*	*75-129*			
Surrogate: Toluene-d8	*49.3*		*ug/L*	*50.00*		*99*	*77-123*			

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HRP Associates, Inc.
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1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0430 - SM6200 B										
Blank (P0C0430-BLK1)				Prepared: 03/20/20 Analyzed: 03/21/20						
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
Acetone	0.790	5.0	ug/L							J
Benzene	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	5.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
o-Xylene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	1.5	ug/L							
Heptane	0.00		ug/L							
Surrogate: 4-Bromofluorobenzene	*50.9*		*ug/L*	*50.00*		*102*	*80-124*			
Surrogate: Dibromofluoromethane	*51.7*		*ug/L*	*50.00*		*103*	*75-129*			
Surrogate: Toluene-d8	*49.8*		*ug/L*	*50.00*		*100*	*77-123*			

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Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0430 - SM6200 B										
LCS (P0C0430-BS1)				Prepared & Analyzed: 03/20/20						
1,1,1,2-Tetrachloroethane	19.2	0.50	ug/L	20.00		96	79-134			
1,1,1-Trichloroethane	18.7	0.50	ug/L	20.00		94	75-136			
1,1,2,2-Tetrachloroethane	19.0	0.50	ug/L	20.00		95	62-127			
1,1,2-Trichloroethane	19.5	0.50	ug/L	20.00		97	70-140			
1,1-Dichloroethane	19.0	0.50	ug/L	20.00		95	78-130			
1,1-Dichloroethylene	18.6	0.50	ug/L	20.00		93	70-154			
1,1-Dichloropropylene	18.9	0.50	ug/L	20.00		95	71-136			
1,2,3-Trichlorobenzene	22.2	2.0	ug/L	20.00		111	58-144			
1,2,3-Trichloropropane	18.2	1.0	ug/L	20.00		91	71-127			
1,2,4-Trichlorobenzene	21.2	1.0	ug/L	20.00		106	66-139			
1,2,4-Trimethylbenzene	19.9	0.50	ug/L	20.00		100	75-133			
1,2-Dibromo-3-chloropropane	19.2	2.0	ug/L	20.00		96	63-134			
1,2-Dibromoethane	18.8	0.50	ug/L	20.00		94	77-135			
1,2-Dichlorobenzene	21.0	0.50	ug/L	20.00		105	78-128			
1,2-Dichloroethane	18.1	0.50	ug/L	20.00		90	68-131			
1,2-Dichloropropane	19.5	0.50	ug/L	20.00		98	77-130			
1,3,5-Trimethylbenzene	20.2	0.50	ug/L	20.00		101	75-131			
1,3-Dichlorobenzene	20.1	0.50	ug/L	20.00		101	77-125			
1,3-Dichloropropane	18.8	0.50	ug/L	20.00		94	76-132			
1,4-Dichlorobenzene	19.8	0.50	ug/L	20.00		99	75-126			
2,2-Dichloropropane	18.7	2.0	ug/L	20.00		93	29-149			
2-Chlorotoluene	20.0	0.50	ug/L	20.00		100	74-126			
4-Chlorotoluene	19.9	0.50	ug/L	20.00		99	78-129			
4-Isopropyltoluene	20.5	0.50	ug/L	20.00		102	69-132			
Acetone	35.0	5.0	ug/L	40.00		88	40-166			
Acrolein	34.1	20	ug/L	40.00		85	70-130			
Acrylonitrile	38.1	20	ug/L	40.00		95	81-127			
Benzene	19.4	0.50	ug/L	20.00		97	77-128			
Bromobenzene	19.5	0.50	ug/L	20.00		98	78-129			
Bromochloromethane	20.2	0.50	ug/L	20.00		101	78-135			
Bromodichloromethane	19.2	0.50	ug/L	20.00		96	76-138			
Bromoform	19.1	1.0	ug/L	20.00		96	71-135			
Bromomethane	23.2	1.0	ug/L	20.00		116	41-168			
Carbon disulfide	18.9	5.0	ug/L	20.00		94	59-135			
Carbon Tetrachloride	18.3	0.50	ug/L	20.00		91	72-142			
Chlorobenzene	19.2	0.50	ug/L	20.00		96	78-119			
Chloroethane	21.3	0.50	ug/L	20.00		107	57-142			
Chloroform	19.2	0.50	ug/L	20.00		96	77-130			
Chloromethane	18.4	0.50	ug/L	20.00		92	47-145			
cis-1,2-Dichloroethylene	19.2	0.50	ug/L	20.00		96	76-141			
cis-1,3-Dichloropropylene	19.0	0.50	ug/L	20.00		95	65-140			
Dibromochloromethane	18.7	0.50	ug/L	20.00		93	75-134			
Dibromomethane	18.6	0.50	ug/L	20.00		93	76-138			
Dichlorodifluoromethane	19.8	5.0	ug/L	20.00		99	28-163			
Ethylbenzene	18.6	0.50	ug/L	20.00		93	80-127			
Hexachlorobutadiene	22.4	2.0	ug/L	20.00		112	61-134			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0430 - SM6200 B										
LCS (P0C0430-BS1)				Prepared & Analyzed: 03/20/20						
Isopropyl Ether	18.8	0.50	ug/L	20.00		94	60-154			
Isopropylbenzene (Cumene)	19.8	0.50	ug/L	20.00		99	70-130			
m,p-Xylenes	38.5	1.0	ug/L	40.00		96	77-133			
Methyl Butyl Ketone (2-Hexanone)	18.5	5.0	ug/L	20.00		92	64-137			
Methyl Ethyl Ketone (2-Butanone)	18.8	5.0	ug/L	20.00		94	71-134			
Methyl Isobutyl Ketone	18.4	5.0	ug/L	20.00		92	69-134			
Methylene Chloride	17.5	1.0	ug/L	20.00		88	73-131			
Methyl-tert-Butyl Ether	19.2	0.50	ug/L	20.00		96	68-135			
Naphthalene	20.6	1.0	ug/L	20.00		103	64-136			
n-Butylbenzene	20.7	1.0	ug/L	20.00		103	68-134			
n-Propylbenzene	20.2	0.50	ug/L	20.00		101	72-132			
o-Xylene	19.1	0.50	ug/L	20.00		95	78-128			
sec-Butylbenzene	20.4	0.50	ug/L	20.00		102	71-131			
Styrene	19.4	0.50	ug/L	20.00		97	78-129			
tert-Butylbenzene	20.3	0.50	ug/L	20.00		102	70-132			
Tetrachloroethylene	19.0	0.50	ug/L	20.00		95	80-129			
Toluene	19.1	0.50	ug/L	20.00		95	76-131			
trans-1,2-Dichloroethylene	19.1	0.50	ug/L	20.00		96	76-135			
trans-1,3-Dichloropropylene	19.0	0.50	ug/L	20.00		95	67-140			
Trichloroethylene	19.2	0.50	ug/L	20.00		96	77-133			
Trichlorofluoromethane	19.9	0.50	ug/L	20.00		100	62-148			
Vinyl acetate	18.1	2.0	ug/L	20.00		91	34-167			
Vinyl chloride	19.1	0.50	ug/L	20.00		95	57-141			
Xylenes, total	57.5	1.5	ug/L	60.00		96	77-133			
Surrogate: 4-Bromofluorobenzene	*50.9*		*ug/L*	*50.00*		*102*	*80-124*			
Surrogate: Dibromofluoromethane	*51.1*		*ug/L*	*50.00*		*102*	*75-129*			
Surrogate: Toluene-d8	*49.6*		*ug/L*	*50.00*		*99*	*77-123*			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS SIM - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0270 - 5030B										
Blank (P0C0270-BLK1)				Prepared & Analyzed: 03/13/20						
1,4-Dioxane	BRL	2.0	ug/L							
LCS (P0C0270-BS1)				Prepared & Analyzed: 03/13/20						
1,4-Dioxane	47.7	2.0	ug/L	50.00		95	55-145			
Matrix Spike (P0C0270-MS1)		**Source: 0030166-02**		Prepared & Analyzed: 03/13/20						
1,4-Dioxane	47.5	2.0	ug/L	50.00	BRL	95	55-145			
Matrix Spike Dup (P0C0270-MSD1)		**Source: 0030166-02**		Prepared & Analyzed: 03/13/20						
1,4-Dioxane	48.2	2.0	ug/L	50.00	BRL	96	55-145	2	30	
Batch P0C0297 - 5030B										
Blank (P0C0297-BLK1)				Prepared & Analyzed: 03/16/20						
1,4-Dioxane	BRL	2.0	ug/L							
LCS (P0C0297-BS1)				Prepared & Analyzed: 03/16/20						
1,4-Dioxane	48.6	2.0	ug/L	50.00		97	55-145			
Matrix Spike (P0C0297-MS1)		**Source: 0030166-21**		Prepared & Analyzed: 03/16/20						
1,4-Dioxane	62.0	2.0	ug/L	50.00	20.2	84	55-145			
Matrix Spike Dup (P0C0297-MSD1)		**Source: 0030166-21**		Prepared & Analyzed: 03/16/20						
1,4-Dioxane	61.6	2.0	ug/L	50.00	20.2	83	55-145	0.6	30	
Batch P0C0308 - 5030B										
Blank (P0C0308-BLK1)				Prepared & Analyzed: 03/17/20						
1,4-Dioxane	BRL	2.0	ug/L							

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030166
Time Submitted: 3/11/2020 5:45:00PM

Volatile Organic Compounds by GC/MS SIM - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0308 - 5030B										
LCS (P0C0308-BS1)				Prepared & Analyzed: 03/17/20						
1,4-Dioxane	50.8	2.0	ug/L	50.00		102	55-145			

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Sample Extraction Data

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
0030166-01	P0C0332	10 mL	10 mL	03/17/20 12:00
0030166-02	P0C0332	10 mL	10 mL	03/17/20 12:00
0030166-03	P0C0332	10 mL	10 mL	03/17/20 12:00
0030166-04	P0C0332	10 mL	10 mL	03/17/20 12:00
0030166-05	P0C0332	10 mL	10 mL	03/17/20 12:00
0030166-06	P0C0332	10 mL	10 mL	03/17/20 12:00
0030166-07	P0C0332	10 mL	10 mL	03/17/20 12:00
0030166-08	P0C0354	10 mL	10 mL	03/18/20 9:00
0030166-09	P0C0332	10 mL	10 mL	03/17/20 12:00
0030166-10	P0C0332	10 mL	10 mL	03/17/20 12:00
0030166-11	P0C0354	10 mL	10 mL	03/18/20 9:00
0030166-12	P0C0332	10 mL	10 mL	03/17/20 12:00
0030166-13	P0C0354	10 mL	10 mL	03/18/20 9:00
0030166-14	P0C0354	10 mL	10 mL	03/18/20 9:00
0030166-15	P0C0354	10 mL	10 mL	03/18/20 9:00
0030166-16	P0C0354	10 mL	10 mL	03/18/20 9:00
0030166-17	P0C0354	10 mL	10 mL	03/18/20 9:00
0030166-18	P0C0354	10 mL	10 mL	03/18/20 9:00
0030166-19	P0C0354	10 mL	10 mL	03/18/20 9:00
0030166-20	P0C0354	10 mL	10 mL	03/18/20 9:00
0030166-21	P0C0354	10 mL	10 mL	03/18/20 9:00
0030166-21	P0C0354	10 mL	10 mL	03/18/20 9:00
0030166-22	P0C0354	10 mL	10 mL	03/18/20 9:00
0030166-23	P0C0355	10 mL	10 mL	03/18/20 9:00
0030166-23	P0C0355	10 mL	10 mL	03/18/20 9:00
0030166-24	P0C0355	10 mL	10 mL	03/18/20 9:00
0030166-25	P0C0355	10 mL	10 mL	03/18/20 9:00
0030166-25	P0C0355	10 mL	10 mL	03/18/20 9:00
0030166-26	P0C0355	10 mL	10 mL	03/18/20 9:00
0030166-27	P0C0355	10 mL	10 mL	03/18/20 9:00
0030166-28	P0C0355	10 mL	10 mL	03/18/20 9:00
0030166-29	P0C0354	10 mL	10 mL	03/18/20 9:00
0030166-30	P0C0354	10 mL	10 mL	03/18/20 9:00

Prep Method: SM6200 B

Lab Number	Batch	Initial	Final	Date/Time
0030166-31	P0C0430	10 mL	10 mL	03/20/20 15:48
0030166-32	P0C0430	10 mL	10 mL	03/20/20 15:48

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
0030166-01	P0C0270	5 mL	5 mL	03/13/20 12:31
0030166-02	P0C0270	5 mL	5 mL	03/13/20 12:31
0030166-03	P0C0270	5 mL	5 mL	03/13/20 12:31
0030166-04	P0C0270	5 mL	5 mL	03/13/20 12:31
0030166-05	P0C0270	5 mL	5 mL	03/13/20 12:31
0030166-06	P0C0270	5 mL	5 mL	03/13/20 12:31
0030166-07	P0C0270	5 mL	5 mL	03/13/20 12:31
0030166-08	P0C0270	5 mL	5 mL	03/13/20 12:31
0030166-09	P0C0270	5 mL	5 mL	03/13/20 12:31
0030166-10	P0C0270	5 mL	5 mL	03/13/20 12:31
0030166-11	P0C0270	5 mL	5 mL	03/13/20 12:31
0030166-12	P0C0270	5 mL	5 mL	03/13/20 12:31
0030166-13	P0C0270	5 mL	5 mL	03/13/20 12:31
0030166-14	P0C0270	5 mL	5 mL	03/13/20 12:31

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Sample Extraction Data

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
0030166-15	P0C0270	5 mL	5 mL	03/13/20 12:31
0030166-16	P0C0270	5 mL	5 mL	03/13/20 12:31
0030166-17	P0C0270	5 mL	5 mL	03/13/20 12:31
0030166-18	P0C0270	5 mL	5 mL	03/13/20 12:31
0030166-19	P0C0270	5 mL	5 mL	03/13/20 12:31
0030166-20	P0C0270	5 mL	5 mL	03/13/20 12:31
0030166-21	P0C0297	5 mL	5 mL	03/16/20 8:12
0030166-22	P0C0308	5 mL	5 mL	03/17/20 9:23
0030166-23	P0C0297	5 mL	5 mL	03/16/20 8:12
0030166-24	P0C0297	5 mL	5 mL	03/16/20 8:12
0030166-25	P0C0308	5 mL	5 mL	03/17/20 9:23
0030166-26	P0C0297	5 mL	5 mL	03/16/20 8:12
0030166-27	P0C0297	5 mL	5 mL	03/16/20 8:12
0030166-28	P0C0297	5 mL	5 mL	03/16/20 8:12
0030166-29	P0C0297	5 mL	5 mL	03/16/20 8:12
0030166-30	P0C0297	5 mL	5 mL	03/16/20 8:12
0030166-31	P0C0297	5 mL	5 mL	03/16/20 8:12
0030166-32	P0C0297	5 mL	5 mL	03/16/20 8:12

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Waypoint ANALYTICAL
449 Springbrook Road • Charlotte, NC 21217
Phone 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 4 QUOTE # TO ENSURE PROPER BILLING:

Project Name: ASCEND
Short Hold Analysis (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: ACCOUNTING@HRPASSOCIATES.COM
Address:

Client Company Name: HRP
Report To/Contact Name: SAM MULLER
Reporting Address: 1327 D MILLER RD GREENVILLE, SC
Phone: Fax (Yes)(No):
Email Address: SLM@HRPASSOCIATES.COM
EDD Type: PDF___ Excel X Other
Site Location Name: ASCEND
Site Location Physical Address: GREENWOOD, SC

Purchase Order No./Billing Reference S-SC-5211
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY WAYPOINT ANALYTICAL, LLC TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IR-14 Observed 2.0 °C /Corr. 2.1 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC____ FL____ NC____
SC X OTHER____ N/A____
Water Chlorinated: YES___ NO X
Sample Iced Upon Collection: YES X NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER, OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSIS REQUESTED 8260 SVOCs PCB's 1,4 Dioxane MNA	REMARKS	ID NO.
NORTH CREEK UP	3-9	1457	W	VOA	6	40mL	HCl	X X		01
NORTH CREEK DOWN	3-9	1445								02
DUCK POND	3-9	1152								03
SOUTH CREEK DOWN	3-9	1225								04
SOUTH CREEK UP	3-9	1238								05
CDS UP	3-9	1257								06
CDS DOWN	3-9	1249								07
OW-55	3-10	1032								08
OW-245	3-10	1020								09
DUP-1	3-9	1448								10

Sampler's Signature: [signature] Sampled By (Print Name): SAM MULLER Affiliation:

PRESS DOWN FIRMLY - 2 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Waypoint Analytical to proceed with the analyses as requested above. Any changes must be submitted in writing to the Waypoint Analytical Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature)	Received By: (Signature)	3-11-20	1320
Relinquished By: (Signature) 3-11-20 1745	Received By: (Signature)		
Relinquished By: (Signature)	Received For Waypoint Analytical By:	3.11.20	1745

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☒ Waypoint Analytical Field Service ☐ Other
COC Group No. 0030 166

Additional Comments:

LAB USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	BRWNFLD	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☒ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐	☐	☐	☐	☐	☐	☐	☐	☐

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

CHAIN OF CUSTODY RECORD

Waypoint ANALYTICAL
449 Springbrook Road • Charlotte, NC 21217
Phone 704/529-6364 • Fax: 704/525-0409

PAGE 2 OF 4 QUOTE # TO ENSURE PROPER BILLING:

Project Name: ASCEND
Short Hold Analysis (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: ACCOUNTING@HRPASSOCIATES.COM
Address:

Client Company Name: HRP
Report To/Contact Name: SAM MULLER
Reporting Address: 1327 D MILLER RD GREENVILLE, SC
Phone: Fax (Yes)(No):
Email Address: SLM@HRPASSOCIATES.COM
EDD Type: PDF___ Excel X Other
Site Location Name: ASCEND
Site Location Physical Address: GREENWOOD, SC

Purchase Order No./Billing Reference
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY WAYPOINT ANALYTICAL, LLC TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IR T-4 Observed 2.0 °C /Corr. 2.1 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ FL____ NC____ SC____ OTHER____ N/A____
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES___NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER, OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSIS REQUESTED: 624 GC/MS LIST	ANALYSIS REQUESTED: 1,4-DIOX	REMARKS	ID NO.
OW-25S	3-10	1042	WT	VOA	6	40mL	HCl	X	X		11
OW-26S	3-9	1627									12
OW-27D	3-9	1653									13
OW-33S	3-9	1610									14
OW-34S	3-10	1157									15
OW-35(D)	3-10	1209									16
OW-36S	3-10	1312									17
PZ-4S	3-10	1131									18
PZ-29S	3-10	1145									19
PZ-31S	3-10	1100									20

Sampler's Signature: Sampled By (Print Name) SAM MULLER Affiliation HRP

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Upon relinquishing, this Chain of Custody is your authorization for Waypoint Analytical to proceed with the analyses as requested above. Any changes must be submitted in writing to the Waypoint Analytical Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature)	Received By: (Signature)	3-11-20	1325
Relinquished By: (Signature) 3-11-20 045	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Waypoint Analytical By:	Date 3.11.20	1745

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Waypoint Analytical Field Service ☐ Other
COC Group No. 0030166

Additional Comments:

LAB USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	BRWNFLD	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐	☐	☐	☐	☐	☐	☐	☐	☐

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

CHAIN OF CUSTODY RECORD

Waypoint ANALYTICAL
449 Springbrook Road • Charlotte, NC 21217
Phone 704/529-6364 • Fax: 704/525-0409

PAGE 3 OF 4 QUOTE # TO ENSURE PROPER BILLING:

Client Company Name: HRP
Report To/Contact Name: SAM MULLER
Reporting Address: 1327 D MILLER RD GREENVILLE, SC
Phone: Fax (Yes)(No):
Email Address: SLM@HRPASSOCIATES.COM
EDD Type: PDF ___ Excel X Other
Site Location Name: ASCEND
Site Location Physical Address: GREENWOOD, SC

Project Name: ASCEND
Short Hold Analysis (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: ACCOUNTING@HRPASSOCIATES.COM
Address:

Purchase Order No./Billing Reference S-SC-5211
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days X Standard 10 days ☐ Rush Work Must Be Pre Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY WAYPOINT ANALYTICAL, LLC TO CLIENT)

LAB USE ONLY

	YES	NO	NA
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IR-T4 Observed 2.0 °C /Corr. 2.1 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC ___ FL ___ NC ___ SC X OTHER ___ N/A ___
Water Chlorinated: YES ___ NO X
Sample Iced Upon Collection: YES X NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER, OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSIS REQUESTED: RECEIVES MS LIST 8260 BTEX+MTBE 14-BLANKS	REMARKS	ID NO.
EW-4D	3-10	1120	WT	VOA	6	40mL	HCl	X X		21
EW-22S	3-9	1644								22
OW-2D	3-10	1336								23
OW-13S	3-10	1420								24
OW-13D	3-10	1429								25
EW-1C	3-10	1347								26
EW-2A	3-10	1359								27
EW-3B	3-10	1406								28
OW-38	3-10	1325								29
OW-39	3-10	1439								30

Sampler's Signature: [signature] Sampled By (Print Name): SAM MULLER Affiliation: HRP

PRESS DOWN FIRMLY - 2 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Waypoint Analytical to proceed with the analyses as requested above. Any changes must be submitted in writing to the Waypoint Analytical Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature) [signature]	Received By: (Signature) [signature]	3-11-20	1320
Relinquished By: (Signature) [signature] 3-11-20 1745	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Waypoint Analytical By: [signature]	Date 3.11.20	1745

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered X Waypoint Analytical Field Service ☐ Other
COC Group No. 0030166

Additional Comments:

LAB USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	BRWNFLD	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC X SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

CHAIN OF CUSTODY RECORD

Waypoint ANALYTICAL
449 Springbrook Road • Charlotte, NC 21217
Phone 704/529-6364 • Fax: 704/525-0409

PAGE 4 OF 4 QUOTE # TO ENSURE PROPER BILLING:

Project Name: ASCEND
Short Hold Analysis (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: ACCOUNTING@HRPASSOCIATES.COM
Address:

Client Company Name: HRP
Report To/Contact Name: SAM MULLER
Reporting Address: 1327 D MILLER RD

Phone: Fax (Yes)(No):
Email Address: SLM@HRPASSOCIATES.COM
EDD Type: PDF___ Excel X Other
Site Location Name: ASCEND
Site Location Physical Address: GREENWOOD, SC

Purchase Order No./Billing Reference
Requested Due Date ❑ 1 Day ❑ 2 Days ❑ 3 Days ❑ 4 Days ❑ 5 Days
"Working Days" ❑ 6-9 Days ❑ Standard 10 days ❑ Rush Work Must Be Pre Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY WAYPOINT ANALYTICAL, LLC TO CLIENT)

LAB USE ONLY

	YES	NO	NA
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IR T-14 Observed 1.0 °C /Corr. 2.1°C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC___ FL___ NC___ SC ✓ OTHER___ N/A___
Water Chlorinated: YES___ NO ✓
Sample Iced Upon Collection: YES ✓ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER, OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSIS REQUESTED: SITE LIST VOC	VOC 624	SIM					REMARKS	ID NO.
FB	3-10	1135	WT	VOA	3	40mL	HCl	X								31
TRIPBLANK	—	—	WT	VOA	4	40mL	" "	X	X							32
TRIP BLANK	—	—	WT	VOA	4	40mL	" "	X	X							1

Sampler's Signature: [signature] Sampled By (Print Name) SAM MULLER Affiliation HRP

PRESS DOWN FIRMLY - 2 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Waypoint Analytical to proceed with the analyses as requested above. Any changes must be submitted in writing to the Waypoint Analytical Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature) [signature]	Received By: (Signature) [signature]	3-11-20	1320
Relinquished By: (Signature) [signature] 3-11-20 1745	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Waypoint Analytical By: [signature]	Date 3.11.20	1745

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
❑ Fed Ex ❑ UPS ❑ Hand-delivered ☒ Waypoint Analytical Field Service ❑ Other
COC Group No. 0030166

Additional Comments:

LAB USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	BRWNFLD	LANDFILL	OTHER:
❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC
❑	❑	❑	❑	❑	❑	❑	❑	❑

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

NC Certification No. 402
NC Drinking Water Cert No. 37735
SC Certification No. 99012

Case Narrative

4/6/20 14:53

HRP Associates, Inc.
Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend
Project No.: Ascend
Lab Submittal Date: 03/30/2020
Work Order: 0030374

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

WAYPOINT ANALYTICAL

Angela D. Overcash

Senior Project Manager

Data Qualifiers Key Reference:

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
U	Not Detected at the MDL
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Sample Receipt Summary

04/06/2020

Work Order: 0030374

Client Sample ID	Lab Sample ID	Matrix	Date/Time Sampled	Date/Time Received
OW-01-55'	0030374-01	Water	03/27/20 11:10	03/30/20 13:15
OW-01-65'	0030374-02	Water	03/27/20 11:15	03/30/20 13:15
OW-01-75'	0030374-03	Water	03/27/20 11:20	03/30/20 13:15
OW-01-85'	0030374-04	Water	03/27/20 11:25	03/30/20 13:15
OW-01-95'	0030374-05	Water	03/27/20 11:30	03/30/20 13:15
OW-16-63'	0030374-06	Water	03/27/20 12:15	03/30/20 13:15
OW-16-74'	0030374-07	Water	03/27/20 12:20	03/30/20 13:15
OW-17-23'	0030374-08	Water	03/27/20 12:40	03/30/20 13:15
OW-17-34'	0030374-09	Water	03/27/20 12:45	03/30/20 13:15
OW-17-46'	0030374-10	Water	03/27/20 12:50	03/30/20 13:15
OW-17-57'	0030374-11	Water	03/27/20 12:55	03/30/20 13:15
OW-37D	0030374-12	Water	03/27/20 13:30	03/30/20 13:15
OW-10D-19'	0030374-13	Water	03/27/20 14:00	03/30/20 13:15
OW-10D-28'	0030374-14	Water	03/27/20 14:05	03/30/20 13:15
OW-10D-37'	0030374-15	Water	03/27/20 14:15	03/30/20 13:15
OW-28D-87'	0030374-16	Water	03/27/20 14:40	03/30/20 13:15
OW-28D-98'	0030374-17	Water	03/27/20 14:45	03/30/20 13:15
OW-28D-108'	0030374-18	Water	03/27/20 14:50	03/30/20 13:15
Dup-GW	0030374-19	Water	03/27/20 14:52	03/30/20 13:15
Trip Blank	0030374-20	Water	03/27/20 0:00	03/30/20 13:15

Samples were received in good condition at 2.2 degrees C unless otherwise noted.

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

04/06/2020

Work Order: 0030374

Waypoint ID	Client ID	Parameter	Method	Result		Units
0030374-01	OW-01-55'	1,1-Dichloroethane	8260D	3.8		ug/L
0030374-01	OW-01-55'	1,1-Dichloroethylene	8260D	10		ug/L
0030374-01	OW-01-55'	cis-1,2-Dichloroethylene	8260D	0.47	J	ug/L
0030374-01	OW-01-55'	Trichloroethylene	8260D	2.2		ug/L
0030374-01	OW-01-55'	1,4-Dioxane	8260D SIM	5.8		ug/L
0030374-02	OW-01-65'	1,1-Dichloroethane	8260D	7.0		ug/L
0030374-02	OW-01-65'	1,1-Dichloroethylene	8260D	5.6		ug/L
0030374-02	OW-01-65'	Acetone	8260D	12		ug/L
0030374-02	OW-01-65'	cis-1,2-Dichloroethylene	8260D	0.27	J	ug/L
0030374-02	OW-01-65'	Trichloroethylene	8260D	1.1		ug/L
0030374-02	OW-01-65'	Vinyl chloride	8260D	7.9		ug/L
0030374-02	OW-01-65'	1,4-Dioxane	8260D SIM	7.7		ug/L
0030374-03	OW-01-75'	1,1-Dichloroethane	8260D	14		ug/L
0030374-03	OW-01-75'	1,1-Dichloroethylene	8260D	0.51		ug/L
0030374-03	OW-01-75'	1,2-Dichloroethane	8260D	0.34	J	ug/L
0030374-03	OW-01-75'	Acetone	8260D	4.6	J	ug/L
0030374-03	OW-01-75'	Vinyl chloride	8260D	20		ug/L
0030374-03	OW-01-75'	1,4-Dioxane	8260D SIM	17		ug/L
0030374-04	OW-01-85'	1,1-Dichloroethane	8260D	12		ug/L
0030374-04	OW-01-85'	1,1-Dichloroethylene	8260D	0.47	J	ug/L
0030374-04	OW-01-85'	Vinyl chloride	8260D	16		ug/L
0030374-04	OW-01-85'	1,4-Dioxane	8260D SIM	20		ug/L
0030374-05	OW-01-95'	1,1-Dichloroethane	8260D	11		ug/L
0030374-05	OW-01-95'	1,1-Dichloroethylene	8260D	0.60		ug/L
0030374-05	OW-01-95'	1,2-Dichloroethane	8260D	0.30	J	ug/L
0030374-05	OW-01-95'	Vinyl chloride	8260D	15		ug/L
0030374-05	OW-01-95'	1,4-Dioxane	8260D SIM	20		ug/L
0030374-06	OW-16-63'	1,1-Dichloroethane	8260D	59		ug/L
0030374-06	OW-16-63'	1,1-Dichloroethylene	8260D	81		ug/L
0030374-06	OW-16-63'	1,2-Dichloroethane	8260D	0.82		ug/L
0030374-06	OW-16-63'	Carbon Tetrachloride	8260D	4.9		ug/L
0030374-06	OW-16-63'	Chloroform	8260D	4.6		ug/L
0030374-06	OW-16-63'	cis-1,2-Dichloroethylene	8260D	4.7		ug/L
0030374-06	OW-16-63'	Tetrachloroethylene	8260D	0.34	J	ug/L
0030374-06	OW-16-63'	Trichloroethylene	8260D	76		ug/L
0030374-06	OW-16-63'	1,4-Dioxane	8260D SIM	61		ug/L
0030374-07	OW-16-74'	1,1-Dichloroethane	8260D	46		ug/L
0030374-07	OW-16-74'	1,1-Dichloroethylene	8260D	60		ug/L
0030374-07	OW-16-74'	1,2-Dichloroethane	8260D	0.67		ug/L
0030374-07	OW-16-74'	Carbon Tetrachloride	8260D	3.8		ug/L
0030374-07	OW-16-74'	Chloroform	8260D	3.6		ug/L
0030374-07	OW-16-74'	cis-1,2-Dichloroethylene	8260D	3.6		ug/L

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Waypoint ANALYTICAL

Summary of Detections

04/06/2020

Work Order: 0030374

Waypoint ID	Client ID	Parameter	Method	Result		Units
0030374-07	OW-16-74'	Tetrachloroethylene	8260D	0.28	J	ug/L
0030374-07	OW-16-74'	Trichloroethylene	8260D	59		ug/L
0030374-07	OW-16-74'	1,4-Dioxane	8260D SIM	61		ug/L
0030374-08	OW-17-23'	1,1-Dichloroethane	8260D	1.1		ug/L
0030374-08	OW-17-23'	1,1-Dichloroethylene	8260D	16		ug/L
0030374-08	OW-17-23'	Carbon Tetrachloride	8260D	9.3		ug/L
0030374-08	OW-17-23'	Chloroform	8260D	6.4		ug/L
0030374-08	OW-17-23'	Tetrachloroethylene	8260D	0.59		ug/L
0030374-08	OW-17-23'	Trichloroethylene	8260D	19		ug/L
0030374-08	OW-17-23'	1,4-Dioxane	8260D SIM	4.4		ug/L
0030374-09	OW-17-34'	1,1-Dichloroethane	8260D	1.0		ug/L
0030374-09	OW-17-34'	1,1-Dichloroethylene	8260D	16		ug/L
0030374-09	OW-17-34'	Carbon Tetrachloride	8260D	8.9		ug/L
0030374-09	OW-17-34'	Chloroform	8260D	6.5		ug/L
0030374-09	OW-17-34'	Tetrachloroethylene	8260D	0.49	J	ug/L
0030374-09	OW-17-34'	Trichloroethylene	8260D	18		ug/L
0030374-09	OW-17-34'	1,4-Dioxane	8260D SIM	3.9		ug/L
0030374-10	OW-17-46'	1,1-Dichloroethane	8260D	1.2		ug/L
0030374-10	OW-17-46'	1,1-Dichloroethylene	8260D	17		ug/L
0030374-10	OW-17-46'	Carbon Tetrachloride	8260D	7.9		ug/L
0030374-10	OW-17-46'	Chloroform	8260D	8.2		ug/L
0030374-10	OW-17-46'	Tetrachloroethylene	8260D	0.45	J	ug/L
0030374-10	OW-17-46'	Trichloroethylene	8260D	17		ug/L
0030374-10	OW-17-46'	1,4-Dioxane	8260D SIM	4.1		ug/L
0030374-11	OW-17-57'	1,1-Dichloroethane	8260D	1.3		ug/L
0030374-11	OW-17-57'	1,1-Dichloroethylene	8260D	19		ug/L
0030374-11	OW-17-57'	Carbon Tetrachloride	8260D	9.0		ug/L
0030374-11	OW-17-57'	Chloroform	8260D	8.6		ug/L
0030374-11	OW-17-57'	Tetrachloroethylene	8260D	0.52		ug/L
0030374-11	OW-17-57'	Trichloroethylene	8260D	20		ug/L
0030374-11	OW-17-57'	1,4-Dioxane	8260D SIM	3.9		ug/L
0030374-13	OW-10D-19'	1,1-Dichloroethylene	8260D	5.9		ug/L
0030374-13	OW-10D-19'	Dichlorodifluoromethane	8260D	0.82	J	ug/L
0030374-13	OW-10D-19'	Tetrachloroethylene	8260D	0.29	J	ug/L
0030374-13	OW-10D-19'	Trichloroethylene	8260D	5.9		ug/L
0030374-14	OW-10D-28'	1,1-Dichloroethylene	8260D	6.0		ug/L
0030374-14	OW-10D-28'	Dichlorodifluoromethane	8260D	0.88	J	ug/L
0030374-14	OW-10D-28'	Tetrachloroethylene	8260D	0.29	J	ug/L
0030374-14	OW-10D-28'	Trichloroethylene	8260D	5.8		ug/L
0030374-15	OW-10D-37'	1,1-Dichloroethylene	8260D	6.0		ug/L
0030374-15	OW-10D-37'	Dichlorodifluoromethane	8260D	0.84	J	ug/L
0030374-15	OW-10D-37'	Tetrachloroethylene	8260D	0.27	J	ug/L
0030374-15	OW-10D-37'	Trichloroethylene	8260D	5.6		ug/L
0030374-16	OW-28D-87'	1,1-Dichloroethane	8260D	3.3		ug/L
0030374-16	OW-28D-87'	1,1-Dichloroethylene	8260D	200		ug/L

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

04/06/2020

Work Order: 0030374

Waypoint ID	Client ID	Parameter	Method	Result		Units
0030374-16	OW-28D-87'	1,2-Dichloroethane	8260D	1.6		ug/L
0030374-16	OW-28D-87'	Carbon Tetrachloride	8260D	0.45	J	ug/L
0030374-16	OW-28D-87'	Chloroform	8260D	37		ug/L
0030374-16	OW-28D-87'	Tetrachloroethylene	8260D	22		ug/L
0030374-16	OW-28D-87'	Trichloroethylene	8260D	250		ug/L
0030374-16	OW-28D-87'	1,4-Dioxane	8260D SIM	33		ug/L
0030374-17	OW-28D-98'	1,1-Dichloroethane	8260D	3.1		ug/L
0030374-17	OW-28D-98'	1,1-Dichloroethylene	8260D	160		ug/L
0030374-17	OW-28D-98'	1,2-Dichloroethane	8260D	1.6		ug/L
0030374-17	OW-28D-98'	Carbon Tetrachloride	8260D	0.40	J	ug/L
0030374-17	OW-28D-98'	Chloroform	8260D	39		ug/L
0030374-17	OW-28D-98'	Tetrachloroethylene	8260D	19		ug/L
0030374-17	OW-28D-98'	Trichloroethylene	8260D	190		ug/L
0030374-17	OW-28D-98'	1,4-Dioxane	8260D SIM	34		ug/L
0030374-18	OW-28D-108'	1,1,1-Trichloroethane	8260D	0.25	J	ug/L
0030374-18	OW-28D-108'	1,1-Dichloroethane	8260D	3.9		ug/L
0030374-18	OW-28D-108'	1,1-Dichloroethylene	8260D	170		ug/L
0030374-18	OW-28D-108'	1,2-Dichloroethane	8260D	1.8		ug/L
0030374-18	OW-28D-108'	Carbon Tetrachloride	8260D	0.63		ug/L
0030374-18	OW-28D-108'	Chloroform	8260D	51		ug/L
0030374-18	OW-28D-108'	Methylene Chloride	8260D	0.24	J	ug/L
0030374-18	OW-28D-108'	Tetrachloroethylene	8260D	24		ug/L
0030374-18	OW-28D-108'	Trichloroethylene	8260D	210		ug/L
0030374-18	OW-28D-108'	1,4-Dioxane	8260D SIM	40		ug/L
0030374-19	Dup-GW	1,1-Dichloroethane	8260D	3.0		ug/L
0030374-19	Dup-GW	1,1-Dichloroethylene	8260D	150		ug/L
0030374-19	Dup-GW	1,2-Dichloroethane	8260D	1.6		ug/L
0030374-19	Dup-GW	Carbon Tetrachloride	8260D	0.40	J	ug/L
0030374-19	Dup-GW	Chloroform	8260D	38		ug/L
0030374-19	Dup-GW	Tetrachloroethylene	8260D	21		ug/L
0030374-19	Dup-GW	Trichloroethylene	8260D	190		ug/L
0030374-19	Dup-GW	1,4-Dioxane	8260D SIM	6.6		ug/L

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-01-55'
Sample ID: 0030374-01
Work Order: 0030374
Time Collected: 03/27/20 11:10
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 21:45	JLB	P0D0019
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	4/1/20 21:45	JLB	P0D0019
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 21:45	JLB	P0D0019
1,1-Dichloroethane	**3.8**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 21:45**	**JLB**	**P0D0019**
1,1-Dichloroethylene	**10**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 21:45**	**JLB**	**P0D0019**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 21:45	JLB	P0D0019
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 21:45	JLB	P0D0019
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	4/1/20 21:45	JLB	P0D0019
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	4/1/20 21:45	JLB	P0D0019
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 21:45	JLB	P0D0019
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	4/1/20 21:45	JLB	P0D0019
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	4/1/20 21:45	JLB	P0D0019
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	4/1/20 21:45	JLB	P0D0019
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 21:45	JLB	P0D0019
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 21:45	JLB	P0D0019
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	4/1/20 21:45	JLB	P0D0019
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	4/1/20 21:45	JLB	P0D0019
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 21:45	JLB	P0D0019
cis-1,2-Dichloroethylene	**0.47** J	**ug/L**	**0.50**	**0.056**	**1**	**8260D**	**4/1/20 21:45**	**JLB**	**P0D0019**
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 21:45	JLB	P0D0019
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	4/1/20 21:45	JLB	P0D0019
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	4/1/20 21:45	JLB	P0D0019
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 21:45	JLB	P0D0019
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	4/1/20 21:45	JLB	P0D0019
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	4/1/20 21:45	JLB	P0D0019
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	4/1/20 21:45	JLB	P0D0019
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	4/1/20 21:45	JLB	P0D0019
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	4/1/20 21:45	JLB	P0D0019
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 21:45	JLB	P0D0019
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	4/1/20 21:45	JLB	P0D0019
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	4/1/20 21:45	JLB	P0D0019
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 21:45	JLB	P0D0019
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	4/1/20 21:45	JLB	P0D0019
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	4/1/20 21:45	JLB	P0D0019
Trichloroethylene	**2.2**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**4/1/20 21:45**	**JLB**	**P0D0019**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	4/1/20 21:45	JLB	P0D0019
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	4/1/20 21:45	JLB	P0D0019

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*
Dibromofluoromethane	*105 %*	*75-129*
Toluene-d8	*97 %*	*77-123*

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-01-55'
Sample ID: 0030374-01
Work Order: 0030374
Time Collected: 03/27/20 11:10
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**5.8**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/31/20 11:27**	**TBL**	**P0C0573**

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-01-65'
Sample ID: 0030374-02
Work Order: 0030374
Time Collected: 03/27/20 11:15
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 22:09	JLB	P0D0019
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	4/1/20 22:09	JLB	P0D0019
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 22:09	JLB	P0D0019
1,1-Dichloroethane	**7.0**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 22:09**	**JLB**	**P0D0019**
1,1-Dichloroethylene	**5.6**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 22:09**	**JLB**	**P0D0019**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 22:09	JLB	P0D0019
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 22:09	JLB	P0D0019
Acetone	**12**	**ug/L**	**5.0**	**0.31**	**1**	**8260D**	**4/1/20 22:09**	**JLB**	**P0D0019**
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	4/1/20 22:09	JLB	P0D0019
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 22:09	JLB	P0D0019
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	4/1/20 22:09	JLB	P0D0019
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	4/1/20 22:09	JLB	P0D0019
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	4/1/20 22:09	JLB	P0D0019
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 22:09	JLB	P0D0019
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 22:09	JLB	P0D0019
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	4/1/20 22:09	JLB	P0D0019
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	4/1/20 22:09	JLB	P0D0019
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 22:09	JLB	P0D0019
cis-1,2-Dichloroethylene	**0.27** J	**ug/L**	**0.50**	**0.056**	**1**	**8260D**	**4/1/20 22:09**	**JLB**	**P0D0019**
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 22:09	JLB	P0D0019
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	4/1/20 22:09	JLB	P0D0019
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	4/1/20 22:09	JLB	P0D0019
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 22:09	JLB	P0D0019
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	4/1/20 22:09	JLB	P0D0019
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	4/1/20 22:09	JLB	P0D0019
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	4/1/20 22:09	JLB	P0D0019
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	4/1/20 22:09	JLB	P0D0019
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	4/1/20 22:09	JLB	P0D0019
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 22:09	JLB	P0D0019
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	4/1/20 22:09	JLB	P0D0019
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	4/1/20 22:09	JLB	P0D0019
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 22:09	JLB	P0D0019
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	4/1/20 22:09	JLB	P0D0019
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	4/1/20 22:09	JLB	P0D0019
Trichloroethylene	**1.1**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**4/1/20 22:09**	**JLB**	**P0D0019**
Vinyl chloride	**7.9**	**ug/L**	**0.50**	**0.097**	**1**	**8260D**	**4/1/20 22:09**	**JLB**	**P0D0019**
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	4/1/20 22:09	JLB	P0D0019

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*
Dibromofluoromethane	*106 %*	*75-129*
Toluene-d8	*98 %*	*77-123*

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-01-65'
Sample ID: 0030374-02
Work Order: 0030374
Time Collected: 03/27/20 11:15
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**7.7**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/31/20 11:52**	**TBL**	**P0C0573**

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-01-75'
Sample ID: 0030374-03
Work Order: 0030374
Time Collected: 03/27/20 11:20
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 22:34	JLB	P0D0019
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	4/1/20 22:34	JLB	P0D0019
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 22:34	JLB	P0D0019
1,1-Dichloroethane	**14**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 22:34**	**JLB**	**P0D0019**
1,1-Dichloroethylene	**0.51**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 22:34**	**JLB**	**P0D0019**
1,2-Dichloroethane	**0.34** J	**ug/L**	**0.50**	**0.066**	**1**	**8260D**	**4/1/20 22:34**	**JLB**	**P0D0019**
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 22:34	JLB	P0D0019
Acetone	**4.6** J	**ug/L**	**5.0**	**0.31**	**1**	**8260D**	**4/1/20 22:34**	**JLB**	**P0D0019**
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	4/1/20 22:34	JLB	P0D0019
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 22:34	JLB	P0D0019
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	4/1/20 22:34	JLB	P0D0019
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	4/1/20 22:34	JLB	P0D0019
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	4/1/20 22:34	JLB	P0D0019
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 22:34	JLB	P0D0019
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 22:34	JLB	P0D0019
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	4/1/20 22:34	JLB	P0D0019
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	4/1/20 22:34	JLB	P0D0019
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 22:34	JLB	P0D0019
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	4/1/20 22:34	JLB	P0D0019
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 22:34	JLB	P0D0019
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	4/1/20 22:34	JLB	P0D0019
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	4/1/20 22:34	JLB	P0D0019
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 22:34	JLB	P0D0019
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	4/1/20 22:34	JLB	P0D0019
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	4/1/20 22:34	JLB	P0D0019
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	4/1/20 22:34	JLB	P0D0019
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	4/1/20 22:34	JLB	P0D0019
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	4/1/20 22:34	JLB	P0D0019
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 22:34	JLB	P0D0019
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	4/1/20 22:34	JLB	P0D0019
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	4/1/20 22:34	JLB	P0D0019
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 22:34	JLB	P0D0019
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	4/1/20 22:34	JLB	P0D0019
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	4/1/20 22:34	JLB	P0D0019
Trichloroethylene	0.078 U	ug/L	0.50	0.078	1	8260D	4/1/20 22:34	JLB	P0D0019
Vinyl chloride	**20**	**ug/L**	**0.50**	**0.097**	**1**	**8260D**	**4/1/20 22:34**	**JLB**	**P0D0019**
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	4/1/20 22:34	JLB	P0D0019

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*106 %*	*75-129*
Toluene-d8	*97 %*	*77-123*

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-01-75'
Sample ID: 0030374-03
Work Order: 0030374
Time Collected: 03/27/20 11:20
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**17**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/31/20 12:17**	**TBL**	**P0C0573**

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-01-85'
Sample ID: 0030374-04
Work Order: 0030374
Time Collected: 03/27/20 11:25
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 22:59	JLB	P0D0019
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	4/1/20 22:59	JLB	P0D0019
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 22:59	JLB	P0D0019
1,1-Dichloroethane	**12**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 22:59**	**JLB**	**P0D0019**
1,1-Dichloroethylene	**0.47** J	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 22:59**	**JLB**	**P0D0019**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 22:59	JLB	P0D0019
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 22:59	JLB	P0D0019
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	4/1/20 22:59	JLB	P0D0019
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	4/1/20 22:59	JLB	P0D0019
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 22:59	JLB	P0D0019
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	4/1/20 22:59	JLB	P0D0019
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	4/1/20 22:59	JLB	P0D0019
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	4/1/20 22:59	JLB	P0D0019
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 22:59	JLB	P0D0019
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 22:59	JLB	P0D0019
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	4/1/20 22:59	JLB	P0D0019
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	4/1/20 22:59	JLB	P0D0019
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 22:59	JLB	P0D0019
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	4/1/20 22:59	JLB	P0D0019
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 22:59	JLB	P0D0019
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	4/1/20 22:59	JLB	P0D0019
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	4/1/20 22:59	JLB	P0D0019
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 22:59	JLB	P0D0019
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	4/1/20 22:59	JLB	P0D0019
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	4/1/20 22:59	JLB	P0D0019
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	4/1/20 22:59	JLB	P0D0019
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	4/1/20 22:59	JLB	P0D0019
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	4/1/20 22:59	JLB	P0D0019
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 22:59	JLB	P0D0019
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	4/1/20 22:59	JLB	P0D0019
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	4/1/20 22:59	JLB	P0D0019
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 22:59	JLB	P0D0019
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	4/1/20 22:59	JLB	P0D0019
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	4/1/20 22:59	JLB	P0D0019
Trichloroethylene	0.078 U	ug/L	0.50	0.078	1	8260D	4/1/20 22:59	JLB	P0D0019
Vinyl chloride	**16**	**ug/L**	**0.50**	**0.097**	**1**	**8260D**	**4/1/20 22:59**	**JLB**	**P0D0019**
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	4/1/20 22:59	JLB	P0D0019

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*105 %*	*75-129*
Toluene-d8	*99 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-01-85'
Sample ID: 0030374-04
Work Order: 0030374
Time Collected: 03/27/20 11:25
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	**20**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/31/20 12:43**	**TBL**	**P0C0573**

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-01-95'
Sample ID: 0030374-05
Work Order: 0030374
Time Collected: 03/27/20 11:30
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 23:23	JLB	P0D0019
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	4/1/20 23:23	JLB	P0D0019
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 23:23	JLB	P0D0019
1,1-Dichloroethane	**11**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 23:23**	**JLB**	**P0D0019**
1,1-Dichloroethylene	**0.60**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 23:23**	**JLB**	**P0D0019**
1,2-Dichloroethane	**0.30** J	**ug/L**	**0.50**	**0.066**	**1**	**8260D**	**4/1/20 23:23**	**JLB**	**P0D0019**
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 23:23	JLB	P0D0019
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	4/1/20 23:23	JLB	P0D0019
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	4/1/20 23:23	JLB	P0D0019
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 23:23	JLB	P0D0019
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	4/1/20 23:23	JLB	P0D0019
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	4/1/20 23:23	JLB	P0D0019
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	4/1/20 23:23	JLB	P0D0019
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 23:23	JLB	P0D0019
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 23:23	JLB	P0D0019
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	4/1/20 23:23	JLB	P0D0019
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	4/1/20 23:23	JLB	P0D0019
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 23:23	JLB	P0D0019
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	4/1/20 23:23	JLB	P0D0019
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 23:23	JLB	P0D0019
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	4/1/20 23:23	JLB	P0D0019
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	4/1/20 23:23	JLB	P0D0019
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 23:23	JLB	P0D0019
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	4/1/20 23:23	JLB	P0D0019
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	4/1/20 23:23	JLB	P0D0019
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	4/1/20 23:23	JLB	P0D0019
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	4/1/20 23:23	JLB	P0D0019
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	4/1/20 23:23	JLB	P0D0019
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 23:23	JLB	P0D0019
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	4/1/20 23:23	JLB	P0D0019
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	4/1/20 23:23	JLB	P0D0019
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 23:23	JLB	P0D0019
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	4/1/20 23:23	JLB	P0D0019
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	4/1/20 23:23	JLB	P0D0019
Trichloroethylene	0.078 U	ug/L	0.50	0.078	1	8260D	4/1/20 23:23	JLB	P0D0019
Vinyl chloride	**15**	**ug/L**	**0.50**	**0.097**	**1**	**8260D**	**4/1/20 23:23**	**JLB**	**P0D0019**
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	4/1/20 23:23	JLB	P0D0019

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*106 %*	*75-129*
Toluene-d8	*97 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-01-95'
Sample ID: 0030374-05
Work Order: 0030374
Time Collected: 03/27/20 11:30
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	**20**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/31/20 13:08**	**TBL**	**P0C0573**

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-16-63'
Sample ID: 0030374-06
Work Order: 0030374
Time Collected: 03/27/20 12:15
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	4/2/20 0:40	JLB	P0D0018
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	4/2/20 0:40	JLB	P0D0018
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/2/20 0:40	JLB	P0D0018
1,1-Dichloroethane	**59**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/2/20 0:40**	**JLB**	**P0D0018**
1,1-Dichloroethylene	**81**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/2/20 0:40**	**JLB**	**P0D0018**
1,2-Dichloroethane	**0.82**	**ug/L**	**0.50**	**0.066**	**1**	**8260D**	**4/2/20 0:40**	**JLB**	**P0D0018**
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	4/2/20 0:40	JLB	P0D0018
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	4/2/20 0:40	JLB	P0D0018
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	4/2/20 0:40	JLB	P0D0018
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	4/2/20 0:40	JLB	P0D0018
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	4/2/20 0:40	JLB	P0D0018
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	4/2/20 0:40	JLB	P0D0018
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	4/2/20 0:40	JLB	P0D0018
Carbon Tetrachloride	**4.9**	**ug/L**	**0.50**	**0.11**	**1**	**8260D**	**4/2/20 0:40**	**JLB**	**P0D0018**
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	4/2/20 0:40	JLB	P0D0018
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	4/2/20 0:40	JLB	P0D0018
Chloroform	**4.6**	**ug/L**	**0.50**	**0.076**	**1**	**8260D**	**4/2/20 0:40**	**JLB**	**P0D0018**
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	4/2/20 0:40	JLB	P0D0018
cis-1,2-Dichloroethylene	**4.7**	**ug/L**	**0.50**	**0.056**	**1**	**8260D**	**4/2/20 0:40**	**JLB**	**P0D0018**
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	4/2/20 0:40	JLB	P0D0018
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	4/2/20 0:40	JLB	P0D0018
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	4/2/20 0:40	JLB	P0D0018
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	4/2/20 0:40	JLB	P0D0018
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	4/2/20 0:40	JLB	P0D0018
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	4/2/20 0:40	JLB	P0D0018
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	4/2/20 0:40	JLB	P0D0018
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	4/2/20 0:40	JLB	P0D0018
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	4/2/20 0:40	JLB	P0D0018
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	4/2/20 0:40	JLB	P0D0018
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	4/2/20 0:40	JLB	P0D0018
Tetrachloroethylene	**0.34** J	**ug/L**	**0.50**	**0.098**	**1**	**8260D**	**4/2/20 0:40**	**JLB**	**P0D0018**
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	4/2/20 0:40	JLB	P0D0018
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	4/2/20 0:40	JLB	P0D0018
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	4/2/20 0:40	JLB	P0D0018
Trichloroethylene	**76**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**4/2/20 0:40**	**JLB**	**P0D0018**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	4/2/20 0:40	JLB	P0D0018
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	4/2/20 0:40	JLB	P0D0018

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*106 %*	*75-129*
Toluene-d8	*105 %*	*77-123*

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-16-63'
Sample ID: 0030374-06
Work Order: 0030374
Time Collected: 03/27/20 12:15
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**61**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/31/20 13:33**	**TBL**	**P0C0573**

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-16-74'
Sample ID: 0030374-07
Work Order: 0030374
Time Collected: 03/27/20 12:20
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	4/2/20 1:05	JLB	P0D0018
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	4/2/20 1:05	JLB	P0D0018
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/2/20 1:05	JLB	P0D0018
1,1-Dichloroethane	**46**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/2/20 1:05**	**JLB**	**P0D0018**
1,1-Dichloroethylene	**60**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/2/20 1:05**	**JLB**	**P0D0018**
1,2-Dichloroethane	**0.67**	**ug/L**	**0.50**	**0.066**	**1**	**8260D**	**4/2/20 1:05**	**JLB**	**P0D0018**
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	4/2/20 1:05	JLB	P0D0018
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	4/2/20 1:05	JLB	P0D0018
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	4/2/20 1:05	JLB	P0D0018
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	4/2/20 1:05	JLB	P0D0018
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	4/2/20 1:05	JLB	P0D0018
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	4/2/20 1:05	JLB	P0D0018
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	4/2/20 1:05	JLB	P0D0018
Carbon Tetrachloride	**3.8**	**ug/L**	**0.50**	**0.11**	**1**	**8260D**	**4/2/20 1:05**	**JLB**	**P0D0018**
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	4/2/20 1:05	JLB	P0D0018
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	4/2/20 1:05	JLB	P0D0018
Chloroform	**3.6**	**ug/L**	**0.50**	**0.076**	**1**	**8260D**	**4/2/20 1:05**	**JLB**	**P0D0018**
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	4/2/20 1:05	JLB	P0D0018
cis-1,2-Dichloroethylene	**3.6**	**ug/L**	**0.50**	**0.056**	**1**	**8260D**	**4/2/20 1:05**	**JLB**	**P0D0018**
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	4/2/20 1:05	JLB	P0D0018
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	4/2/20 1:05	JLB	P0D0018
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	4/2/20 1:05	JLB	P0D0018
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	4/2/20 1:05	JLB	P0D0018
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	4/2/20 1:05	JLB	P0D0018
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	4/2/20 1:05	JLB	P0D0018
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	4/2/20 1:05	JLB	P0D0018
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	4/2/20 1:05	JLB	P0D0018
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	4/2/20 1:05	JLB	P0D0018
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	4/2/20 1:05	JLB	P0D0018
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	4/2/20 1:05	JLB	P0D0018
Tetrachloroethylene	**0.28** J	**ug/L**	**0.50**	**0.098**	**1**	**8260D**	**4/2/20 1:05**	**JLB**	**P0D0018**
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	4/2/20 1:05	JLB	P0D0018
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	4/2/20 1:05	JLB	P0D0018
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	4/2/20 1:05	JLB	P0D0018
Trichloroethylene	**59**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**4/2/20 1:05**	**JLB**	**P0D0018**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	4/2/20 1:05	JLB	P0D0018
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	4/2/20 1:05	JLB	P0D0018

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*107 %*	*75-129*
Toluene-d8	*104 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-16-74'
Sample ID: 0030374-07
Work Order: 0030374
Time Collected: 03/27/20 12:20
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**61**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/31/20 13:58**	**TBL**	**P0C0573**

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-17-23'
Sample ID: 0030374-08
Work Order: 0030374
Time Collected: 03/27/20 12:40
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 18:05	JLB	P0D0018
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	4/1/20 18:05	JLB	P0D0018
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 18:05	JLB	P0D0018
1,1-Dichloroethane	**1.1**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 18:05**	**JLB**	**P0D0018**
1,1-Dichloroethylene	**16**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 18:05**	**JLB**	**P0D0018**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 18:05	JLB	P0D0018
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 18:05	JLB	P0D0018
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	4/1/20 18:05	JLB	P0D0018
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	4/1/20 18:05	JLB	P0D0018
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 18:05	JLB	P0D0018
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	4/1/20 18:05	JLB	P0D0018
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	4/1/20 18:05	JLB	P0D0018
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	4/1/20 18:05	JLB	P0D0018
Carbon Tetrachloride	**9.3**	**ug/L**	**0.50**	**0.11**	**1**	**8260D**	**4/1/20 18:05**	**JLB**	**P0D0018**
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 18:05	JLB	P0D0018
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	4/1/20 18:05	JLB	P0D0018
Chloroform	**6.4**	**ug/L**	**0.50**	**0.076**	**1**	**8260D**	**4/1/20 18:05**	**JLB**	**P0D0018**
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 18:05	JLB	P0D0018
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	4/1/20 18:05	JLB	P0D0018
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 18:05	JLB	P0D0018
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	4/1/20 18:05	JLB	P0D0018
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	4/1/20 18:05	JLB	P0D0018
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 18:05	JLB	P0D0018
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	4/1/20 18:05	JLB	P0D0018
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	4/1/20 18:05	JLB	P0D0018
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	4/1/20 18:05	JLB	P0D0018
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	4/1/20 18:05	JLB	P0D0018
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	4/1/20 18:05	JLB	P0D0018
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 18:05	JLB	P0D0018
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	4/1/20 18:05	JLB	P0D0018
Tetrachloroethylene	**0.59**	**ug/L**	**0.50**	**0.098**	**1**	**8260D**	**4/1/20 18:05**	**JLB**	**P0D0018**
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 18:05	JLB	P0D0018
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	4/1/20 18:05	JLB	P0D0018
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	4/1/20 18:05	JLB	P0D0018
Trichloroethylene	**19**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**4/1/20 18:05**	**JLB**	**P0D0018**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	4/1/20 18:05	JLB	P0D0018
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	4/1/20 18:05	JLB	P0D0018

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*80-124*
Dibromofluoromethane	*109 %*	*75-129*
Toluene-d8	*105 %*	*77-123*

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-17-23'
Sample ID: 0030374-08
Work Order: 0030374
Time Collected: 03/27/20 12:40
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**4.4**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/31/20 14:23**	**TBL**	**P0C0573**

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-17-34'
Sample ID: 0030374-09
Work Order: 0030374
Time Collected: 03/27/20 12:45
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 18:30	JLB	P0D0018
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	4/1/20 18:30	JLB	P0D0018
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 18:30	JLB	P0D0018
1,1-Dichloroethane	**1.0**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 18:30**	**JLB**	**P0D0018**
1,1-Dichloroethylene	**16**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 18:30**	**JLB**	**P0D0018**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 18:30	JLB	P0D0018
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 18:30	JLB	P0D0018
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	4/1/20 18:30	JLB	P0D0018
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	4/1/20 18:30	JLB	P0D0018
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 18:30	JLB	P0D0018
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	4/1/20 18:30	JLB	P0D0018
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	4/1/20 18:30	JLB	P0D0018
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	4/1/20 18:30	JLB	P0D0018
Carbon Tetrachloride	**8.9**	**ug/L**	**0.50**	**0.11**	**1**	**8260D**	**4/1/20 18:30**	**JLB**	**P0D0018**
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 18:30	JLB	P0D0018
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	4/1/20 18:30	JLB	P0D0018
Chloroform	**6.5**	**ug/L**	**0.50**	**0.076**	**1**	**8260D**	**4/1/20 18:30**	**JLB**	**P0D0018**
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 18:30	JLB	P0D0018
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	4/1/20 18:30	JLB	P0D0018
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 18:30	JLB	P0D0018
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	4/1/20 18:30	JLB	P0D0018
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	4/1/20 18:30	JLB	P0D0018
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 18:30	JLB	P0D0018
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	4/1/20 18:30	JLB	P0D0018
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	4/1/20 18:30	JLB	P0D0018
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	4/1/20 18:30	JLB	P0D0018
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	4/1/20 18:30	JLB	P0D0018
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	4/1/20 18:30	JLB	P0D0018
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 18:30	JLB	P0D0018
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	4/1/20 18:30	JLB	P0D0018
Tetrachloroethylene	**0.49** J	**ug/L**	**0.50**	**0.098**	**1**	**8260D**	**4/1/20 18:30**	**JLB**	**P0D0018**
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 18:30	JLB	P0D0018
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	4/1/20 18:30	JLB	P0D0018
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	4/1/20 18:30	JLB	P0D0018
Trichloroethylene	**18**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**4/1/20 18:30**	**JLB**	**P0D0018**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	4/1/20 18:30	JLB	P0D0018
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	4/1/20 18:30	JLB	P0D0018

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*80-124*
Dibromofluoromethane	*108 %*	*75-129*
Toluene-d8	*106 %*	*77-123*

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-17-34'
Sample ID: 0030374-09
Work Order: 0030374
Time Collected: 03/27/20 12:45
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**3.9**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/31/20 14:48**	**TBL**	**P0C0573**

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-17-46'
Sample ID: 0030374-10
Work Order: 0030374
Time Collected: 03/27/20 12:50
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 18:55	JLB	P0D0018
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	4/1/20 18:55	JLB	P0D0018
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 18:55	JLB	P0D0018
1,1-Dichloroethane	**1.2**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 18:55**	**JLB**	**P0D0018**
1,1-Dichloroethylene	**17**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 18:55**	**JLB**	**P0D0018**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 18:55	JLB	P0D0018
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 18:55	JLB	P0D0018
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	4/1/20 18:55	JLB	P0D0018
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	4/1/20 18:55	JLB	P0D0018
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 18:55	JLB	P0D0018
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	4/1/20 18:55	JLB	P0D0018
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	4/1/20 18:55	JLB	P0D0018
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	4/1/20 18:55	JLB	P0D0018
Carbon Tetrachloride	**7.9**	**ug/L**	**0.50**	**0.11**	**1**	**8260D**	**4/1/20 18:55**	**JLB**	**P0D0018**
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 18:55	JLB	P0D0018
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	4/1/20 18:55	JLB	P0D0018
Chloroform	**8.2**	**ug/L**	**0.50**	**0.076**	**1**	**8260D**	**4/1/20 18:55**	**JLB**	**P0D0018**
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 18:55	JLB	P0D0018
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	4/1/20 18:55	JLB	P0D0018
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 18:55	JLB	P0D0018
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	4/1/20 18:55	JLB	P0D0018
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	4/1/20 18:55	JLB	P0D0018
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 18:55	JLB	P0D0018
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	4/1/20 18:55	JLB	P0D0018
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	4/1/20 18:55	JLB	P0D0018
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	4/1/20 18:55	JLB	P0D0018
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	4/1/20 18:55	JLB	P0D0018
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	4/1/20 18:55	JLB	P0D0018
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 18:55	JLB	P0D0018
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	4/1/20 18:55	JLB	P0D0018
Tetrachloroethylene	**0.45** J	**ug/L**	**0.50**	**0.098**	**1**	**8260D**	**4/1/20 18:55**	**JLB**	**P0D0018**
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 18:55	JLB	P0D0018
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	4/1/20 18:55	JLB	P0D0018
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	4/1/20 18:55	JLB	P0D0018
Trichloroethylene	**17**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**4/1/20 18:55**	**JLB**	**P0D0018**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	4/1/20 18:55	JLB	P0D0018
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	4/1/20 18:55	JLB	P0D0018

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*107 %*	*75-129*
Toluene-d8	*105 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-17-46'
Sample ID: 0030374-10
Work Order: 0030374
Time Collected: 03/27/20 12:50
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**4.1**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/31/20 15:13**	**TBL**	**P0C0573**

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-17-57'
Sample ID: 0030374-11
Work Order: 0030374
Time Collected: 03/27/20 12:55
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 20:58	JLB	P0D0018
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	4/1/20 20:58	JLB	P0D0018
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 20:58	JLB	P0D0018
1,1-Dichloroethane	**1.3**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 20:58**	**JLB**	**P0D0018**
1,1-Dichloroethylene	**19**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 20:58**	**JLB**	**P0D0018**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 20:58	JLB	P0D0018
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 20:58	JLB	P0D0018
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	4/1/20 20:58	JLB	P0D0018
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	4/1/20 20:58	JLB	P0D0018
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 20:58	JLB	P0D0018
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	4/1/20 20:58	JLB	P0D0018
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	4/1/20 20:58	JLB	P0D0018
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	4/1/20 20:58	JLB	P0D0018
Carbon Tetrachloride	**9.0**	**ug/L**	**0.50**	**0.11**	**1**	**8260D**	**4/1/20 20:58**	**JLB**	**P0D0018**
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 20:58	JLB	P0D0018
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	4/1/20 20:58	JLB	P0D0018
Chloroform	**8.6**	**ug/L**	**0.50**	**0.076**	**1**	**8260D**	**4/1/20 20:58**	**JLB**	**P0D0018**
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 20:58	JLB	P0D0018
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	4/1/20 20:58	JLB	P0D0018
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 20:58	JLB	P0D0018
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	4/1/20 20:58	JLB	P0D0018
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	4/1/20 20:58	JLB	P0D0018
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 20:58	JLB	P0D0018
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	4/1/20 20:58	JLB	P0D0018
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	4/1/20 20:58	JLB	P0D0018
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	4/1/20 20:58	JLB	P0D0018
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	4/1/20 20:58	JLB	P0D0018
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	4/1/20 20:58	JLB	P0D0018
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 20:58	JLB	P0D0018
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	4/1/20 20:58	JLB	P0D0018
Tetrachloroethylene	**0.52**	**ug/L**	**0.50**	**0.098**	**1**	**8260D**	**4/1/20 20:58**	**JLB**	**P0D0018**
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 20:58	JLB	P0D0018
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	4/1/20 20:58	JLB	P0D0018
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	4/1/20 20:58	JLB	P0D0018
Trichloroethylene	**20**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**4/1/20 20:58**	**JLB**	**P0D0018**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	4/1/20 20:58	JLB	P0D0018
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	4/1/20 20:58	JLB	P0D0018

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*107 %*	*75-129*
Toluene-d8	*105 %*	*77-123*

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-17-57'
Sample ID: 0030374-11
Work Order: 0030374
Time Collected: 03/27/20 12:55
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**3.9**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/31/20 15:39**	**TBL**	**P0C0573**

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-37D
Sample ID: 0030374-12
Work Order: 0030374
Time Collected: 03/27/20 13:30
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 19:19	JLB	P0D0018
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	4/1/20 19:19	JLB	P0D0018
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 19:19	JLB	P0D0018
1,1-Dichloroethane	0.083 U	ug/L	0.50	0.083	1	8260D	4/1/20 19:19	JLB	P0D0018
1,1-Dichloroethylene	0.083 U	ug/L	0.50	0.083	1	8260D	4/1/20 19:19	JLB	P0D0018
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 19:19	JLB	P0D0018
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 19:19	JLB	P0D0018
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	4/1/20 19:19	JLB	P0D0018
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	4/1/20 19:19	JLB	P0D0018
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 19:19	JLB	P0D0018
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	4/1/20 19:19	JLB	P0D0018
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	4/1/20 19:19	JLB	P0D0018
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	4/1/20 19:19	JLB	P0D0018
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 19:19	JLB	P0D0018
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 19:19	JLB	P0D0018
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	4/1/20 19:19	JLB	P0D0018
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	4/1/20 19:19	JLB	P0D0018
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 19:19	JLB	P0D0018
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	4/1/20 19:19	JLB	P0D0018
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 19:19	JLB	P0D0018
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	4/1/20 19:19	JLB	P0D0018
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	4/1/20 19:19	JLB	P0D0018
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 19:19	JLB	P0D0018
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	4/1/20 19:19	JLB	P0D0018
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	4/1/20 19:19	JLB	P0D0018
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	4/1/20 19:19	JLB	P0D0018
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	4/1/20 19:19	JLB	P0D0018
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	4/1/20 19:19	JLB	P0D0018
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 19:19	JLB	P0D0018
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	4/1/20 19:19	JLB	P0D0018
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	4/1/20 19:19	JLB	P0D0018
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 19:19	JLB	P0D0018
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	4/1/20 19:19	JLB	P0D0018
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	4/1/20 19:19	JLB	P0D0018
Trichloroethylene	0.078 U	ug/L	0.50	0.078	1	8260D	4/1/20 19:19	JLB	P0D0018
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	4/1/20 19:19	JLB	P0D0018
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	4/1/20 19:19	JLB	P0D0018

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*105 %*	*80-124*
Dibromofluoromethane	*107 %*	*75-129*
Toluene-d8	*105 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-37D
Sample ID: 0030374-12
Work Order: 0030374
Time Collected: 03/27/20 13:30
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	0.14 U	ug/L	2.0	0.14	1	8260D SIM	3/31/20 16:04	TBL	P0C0573

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-10D-19'
Sample ID: 0030374-13
Work Order: 0030374
Time Collected: 03/27/20 14:00
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 19:44	JLB	P0D0018
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	4/1/20 19:44	JLB	P0D0018
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 19:44	JLB	P0D0018
1,1-Dichloroethane	0.083 U	ug/L	0.50	0.083	1	8260D	4/1/20 19:44	JLB	P0D0018
1,1-Dichloroethylene	**5.9**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 19:44**	**JLB**	**P0D0018**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 19:44	JLB	P0D0018
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 19:44	JLB	P0D0018
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	4/1/20 19:44	JLB	P0D0018
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	4/1/20 19:44	JLB	P0D0018
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 19:44	JLB	P0D0018
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	4/1/20 19:44	JLB	P0D0018
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	4/1/20 19:44	JLB	P0D0018
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	4/1/20 19:44	JLB	P0D0018
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 19:44	JLB	P0D0018
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 19:44	JLB	P0D0018
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	4/1/20 19:44	JLB	P0D0018
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	4/1/20 19:44	JLB	P0D0018
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 19:44	JLB	P0D0018
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	4/1/20 19:44	JLB	P0D0018
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 19:44	JLB	P0D0018
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	4/1/20 19:44	JLB	P0D0018
Dichlorodifluoromethane	**0.82** J	**ug/L**	**5.0**	**0.11**	**1**	**8260D**	**4/1/20 19:44**	**JLB**	**P0D0018**
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 19:44	JLB	P0D0018
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	4/1/20 19:44	JLB	P0D0018
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	4/1/20 19:44	JLB	P0D0018
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	4/1/20 19:44	JLB	P0D0018
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	4/1/20 19:44	JLB	P0D0018
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	4/1/20 19:44	JLB	P0D0018
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 19:44	JLB	P0D0018
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	4/1/20 19:44	JLB	P0D0018
Tetrachloroethylene	**0.29** J	**ug/L**	**0.50**	**0.098**	**1**	**8260D**	**4/1/20 19:44**	**JLB**	**P0D0018**
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 19:44	JLB	P0D0018
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	4/1/20 19:44	JLB	P0D0018
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	4/1/20 19:44	JLB	P0D0018
Trichloroethylene	**5.9**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**4/1/20 19:44**	**JLB**	**P0D0018**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	4/1/20 19:44	JLB	P0D0018
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	4/1/20 19:44	JLB	P0D0018

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*80-124*
Dibromofluoromethane	*108 %*	*75-129*
Toluene-d8	*105 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-10D-19'
Sample ID: 0030374-13
Work Order: 0030374
Time Collected: 03/27/20 14:00
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	0.14 U	ug/L	2.0	0.14	1	8260D SIM	3/31/20 16:29	TBL	P0C0573

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-10D-28'
Sample ID: 0030374-14
Work Order: 0030374
Time Collected: 03/27/20 14:05
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 20:09	JLB	P0D0018
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	4/1/20 20:09	JLB	P0D0018
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 20:09	JLB	P0D0018
1,1-Dichloroethane	0.083 U	ug/L	0.50	0.083	1	8260D	4/1/20 20:09	JLB	P0D0018
1,1-Dichloroethylene	**6.0**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 20:09**	**JLB**	**P0D0018**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 20:09	JLB	P0D0018
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 20:09	JLB	P0D0018
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	4/1/20 20:09	JLB	P0D0018
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	4/1/20 20:09	JLB	P0D0018
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 20:09	JLB	P0D0018
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	4/1/20 20:09	JLB	P0D0018
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	4/1/20 20:09	JLB	P0D0018
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	4/1/20 20:09	JLB	P0D0018
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 20:09	JLB	P0D0018
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 20:09	JLB	P0D0018
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	4/1/20 20:09	JLB	P0D0018
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	4/1/20 20:09	JLB	P0D0018
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 20:09	JLB	P0D0018
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	4/1/20 20:09	JLB	P0D0018
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 20:09	JLB	P0D0018
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	4/1/20 20:09	JLB	P0D0018
Dichlorodifluoromethane	**0.88** J	**ug/L**	**5.0**	**0.11**	**1**	**8260D**	**4/1/20 20:09**	**JLB**	**P0D0018**
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 20:09	JLB	P0D0018
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	4/1/20 20:09	JLB	P0D0018
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	4/1/20 20:09	JLB	P0D0018
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	4/1/20 20:09	JLB	P0D0018
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	4/1/20 20:09	JLB	P0D0018
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	4/1/20 20:09	JLB	P0D0018
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 20:09	JLB	P0D0018
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	4/1/20 20:09	JLB	P0D0018
Tetrachloroethylene	**0.29** J	**ug/L**	**0.50**	**0.098**	**1**	**8260D**	**4/1/20 20:09**	**JLB**	**P0D0018**
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 20:09	JLB	P0D0018
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	4/1/20 20:09	JLB	P0D0018
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	4/1/20 20:09	JLB	P0D0018
Trichloroethylene	**5.8**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**4/1/20 20:09**	**JLB**	**P0D0018**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	4/1/20 20:09	JLB	P0D0018
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	4/1/20 20:09	JLB	P0D0018

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*80-124*
Dibromofluoromethane	*107 %*	*75-129*
Toluene-d8	*106 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-10D-28'
Sample ID: 0030374-14
Work Order: 0030374
Time Collected: 03/27/20 14:05
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	0.14 U	ug/L	2.0	0.14	1	8260D SIM	3/31/20 16:54	TBL	P0C0573

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-10D-37'
Sample ID: 0030374-15
Work Order: 0030374
Time Collected: 03/27/20 14:15
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 20:33	JLB	P0D0018
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	4/1/20 20:33	JLB	P0D0018
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 20:33	JLB	P0D0018
1,1-Dichloroethane	0.083 U	ug/L	0.50	0.083	1	8260D	4/1/20 20:33	JLB	P0D0018
1,1-Dichloroethylene	**6.0**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 20:33**	**JLB**	**P0D0018**
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 20:33	JLB	P0D0018
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 20:33	JLB	P0D0018
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	4/1/20 20:33	JLB	P0D0018
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	4/1/20 20:33	JLB	P0D0018
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 20:33	JLB	P0D0018
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	4/1/20 20:33	JLB	P0D0018
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	4/1/20 20:33	JLB	P0D0018
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	4/1/20 20:33	JLB	P0D0018
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 20:33	JLB	P0D0018
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 20:33	JLB	P0D0018
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	4/1/20 20:33	JLB	P0D0018
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	4/1/20 20:33	JLB	P0D0018
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 20:33	JLB	P0D0018
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	4/1/20 20:33	JLB	P0D0018
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 20:33	JLB	P0D0018
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	4/1/20 20:33	JLB	P0D0018
Dichlorodifluoromethane	**0.84** J	**ug/L**	**5.0**	**0.11**	**1**	**8260D**	**4/1/20 20:33**	**JLB**	**P0D0018**
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 20:33	JLB	P0D0018
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	4/1/20 20:33	JLB	P0D0018
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	4/1/20 20:33	JLB	P0D0018
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	4/1/20 20:33	JLB	P0D0018
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	4/1/20 20:33	JLB	P0D0018
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	4/1/20 20:33	JLB	P0D0018
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 20:33	JLB	P0D0018
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	4/1/20 20:33	JLB	P0D0018
Tetrachloroethylene	**0.27** J	**ug/L**	**0.50**	**0.098**	**1**	**8260D**	**4/1/20 20:33**	**JLB**	**P0D0018**
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 20:33	JLB	P0D0018
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	4/1/20 20:33	JLB	P0D0018
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	4/1/20 20:33	JLB	P0D0018
Trichloroethylene	**5.6**	**ug/L**	**0.50**	**0.078**	**1**	**8260D**	**4/1/20 20:33**	**JLB**	**P0D0018**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	4/1/20 20:33	JLB	P0D0018
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	4/1/20 20:33	JLB	P0D0018

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*80-124*
Dibromofluoromethane	*107 %*	*75-129*
Toluene-d8	*106 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-10D-37'
Sample ID: 0030374-15
Work Order: 0030374
Time Collected: 03/27/20 14:15
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	0.14 U	ug/L	2.0	0.14	1	8260D SIM	3/31/20 17:19	TBL	P0C0573

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-28D-87'
Sample ID: 0030374-16
Work Order: 0030374
Time Collected: 03/27/20 14:40
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 23:02	JLB	P0D0018
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	4/1/20 23:02	JLB	P0D0018
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 23:02	JLB	P0D0018
1,1-Dichloroethane	**3.3**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 23:02**	**JLB**	**P0D0018**
1,1-Dichloroethylene	**200**	**ug/L**	**5.0**	**0.83**	**10**	**8260D**	**4/1/20 23:26**	**JLB**	**P0D0018**
1,2-Dichloroethane	**1.6**	**ug/L**	**0.50**	**0.066**	**1**	**8260D**	**4/1/20 23:02**	**JLB**	**P0D0018**
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 23:02	JLB	P0D0018
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	4/1/20 23:02	JLB	P0D0018
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	4/1/20 23:02	JLB	P0D0018
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 23:02	JLB	P0D0018
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	4/1/20 23:02	JLB	P0D0018
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	4/1/20 23:02	JLB	P0D0018
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	4/1/20 23:02	JLB	P0D0018
Carbon Tetrachloride	**0.45** J	**ug/L**	**0.50**	**0.11**	**1**	**8260D**	**4/1/20 23:02**	**JLB**	**P0D0018**
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 23:02	JLB	P0D0018
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	4/1/20 23:02	JLB	P0D0018
Chloroform	**37**	**ug/L**	**0.50**	**0.076**	**1**	**8260D**	**4/1/20 23:02**	**JLB**	**P0D0018**
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 23:02	JLB	P0D0018
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	4/1/20 23:02	JLB	P0D0018
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 23:02	JLB	P0D0018
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	4/1/20 23:02	JLB	P0D0018
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	4/1/20 23:02	JLB	P0D0018
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 23:02	JLB	P0D0018
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	4/1/20 23:02	JLB	P0D0018
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	4/1/20 23:02	JLB	P0D0018
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	4/1/20 23:02	JLB	P0D0018
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	4/1/20 23:02	JLB	P0D0018
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	4/1/20 23:02	JLB	P0D0018
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 23:02	JLB	P0D0018
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	4/1/20 23:02	JLB	P0D0018
Tetrachloroethylene	**22**	**ug/L**	**0.50**	**0.098**	**1**	**8260D**	**4/1/20 23:02**	**JLB**	**P0D0018**
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 23:02	JLB	P0D0018
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	4/1/20 23:02	JLB	P0D0018
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	4/1/20 23:02	JLB	P0D0018
Trichloroethylene	**250**	**ug/L**	**5.0**	**0.78**	**10**	**8260D**	**4/1/20 23:26**	**JLB**	**P0D0018**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	4/1/20 23:02	JLB	P0D0018
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	4/1/20 23:02	JLB	P0D0018

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*106 %*	*75-129*
Toluene-d8	*105 %*	*77-123*

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-28D-87'
Sample ID: 0030374-16
Work Order: 0030374
Time Collected: 03/27/20 14:40
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**33**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/31/20 17:44**	**TBL**	**P0C0573**

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-28D-98'
Sample ID: 0030374-17
Work Order: 0030374
Time Collected: 03/27/20 14:45
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 23:51	JLB	P0D0018
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	4/1/20 23:51	JLB	P0D0018
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 23:51	JLB	P0D0018
1,1-Dichloroethane	**3.1**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 23:51**	**JLB**	**P0D0018**
1,1-Dichloroethylene	**160**	**ug/L**	**5.0**	**0.83**	**10**	**8260D**	**4/2/20 0:16**	**JLB**	**P0D0018**
1,2-Dichloroethane	**1.6**	**ug/L**	**0.50**	**0.066**	**1**	**8260D**	**4/1/20 23:51**	**JLB**	**P0D0018**
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 23:51	JLB	P0D0018
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	4/1/20 23:51	JLB	P0D0018
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	4/1/20 23:51	JLB	P0D0018
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 23:51	JLB	P0D0018
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	4/1/20 23:51	JLB	P0D0018
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	4/1/20 23:51	JLB	P0D0018
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	4/1/20 23:51	JLB	P0D0018
Carbon Tetrachloride	**0.40** J	**ug/L**	**0.50**	**0.11**	**1**	**8260D**	**4/1/20 23:51**	**JLB**	**P0D0018**
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 23:51	JLB	P0D0018
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	4/1/20 23:51	JLB	P0D0018
Chloroform	**39**	**ug/L**	**0.50**	**0.076**	**1**	**8260D**	**4/1/20 23:51**	**JLB**	**P0D0018**
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 23:51	JLB	P0D0018
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	4/1/20 23:51	JLB	P0D0018
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 23:51	JLB	P0D0018
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	4/1/20 23:51	JLB	P0D0018
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	4/1/20 23:51	JLB	P0D0018
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 23:51	JLB	P0D0018
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	4/1/20 23:51	JLB	P0D0018
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	4/1/20 23:51	JLB	P0D0018
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	4/1/20 23:51	JLB	P0D0018
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	4/1/20 23:51	JLB	P0D0018
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	4/1/20 23:51	JLB	P0D0018
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 23:51	JLB	P0D0018
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	4/1/20 23:51	JLB	P0D0018
Tetrachloroethylene	**19**	**ug/L**	**0.50**	**0.098**	**1**	**8260D**	**4/1/20 23:51**	**JLB**	**P0D0018**
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 23:51	JLB	P0D0018
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	4/1/20 23:51	JLB	P0D0018
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	4/1/20 23:51	JLB	P0D0018
Trichloroethylene	**190**	**ug/L**	**5.0**	**0.78**	**10**	**8260D**	**4/2/20 0:16**	**JLB**	**P0D0018**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	4/1/20 23:51	JLB	P0D0018
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	4/1/20 23:51	JLB	P0D0018

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*80-124*
Dibromofluoromethane	*106 %*	*75-129*
Toluene-d8	*104 %*	*77-123*

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-28D-98'
Sample ID: 0030374-17
Work Order: 0030374
Time Collected: 03/27/20 14:45
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**34**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/31/20 18:09**	**TBL**	**P0C0573**

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-28D-108'
Sample ID: 0030374-18
Work Order: 0030374
Time Collected: 03/27/20 14:50
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	**0.25** J	**ug/L**	**0.50**	**0.061**	**1**	**8260D**	**4/1/20 22:12**	**JLB**	**P0D0018**
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	4/1/20 22:12	JLB	P0D0018
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 22:12	JLB	P0D0018
1,1-Dichloroethane	**3.9**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 22:12**	**JLB**	**P0D0018**
1,1-Dichloroethylene	**170**	**ug/L**	**5.0**	**0.83**	**10**	**8260D**	**4/1/20 22:37**	**JLB**	**P0D0018**
1,2-Dichloroethane	**1.8**	**ug/L**	**0.50**	**0.066**	**1**	**8260D**	**4/1/20 22:12**	**JLB**	**P0D0018**
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 22:12	JLB	P0D0018
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	4/1/20 22:12	JLB	P0D0018
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	4/1/20 22:12	JLB	P0D0018
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 22:12	JLB	P0D0018
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	4/1/20 22:12	JLB	P0D0018
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	4/1/20 22:12	JLB	P0D0018
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	4/1/20 22:12	JLB	P0D0018
Carbon Tetrachloride	**0.63**	**ug/L**	**0.50**	**0.11**	**1**	**8260D**	**4/1/20 22:12**	**JLB**	**P0D0018**
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 22:12	JLB	P0D0018
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	4/1/20 22:12	JLB	P0D0018
Chloroform	**51**	**ug/L**	**0.50**	**0.076**	**1**	**8260D**	**4/1/20 22:12**	**JLB**	**P0D0018**
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 22:12	JLB	P0D0018
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	4/1/20 22:12	JLB	P0D0018
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 22:12	JLB	P0D0018
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	4/1/20 22:12	JLB	P0D0018
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	4/1/20 22:12	JLB	P0D0018
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 22:12	JLB	P0D0018
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	4/1/20 22:12	JLB	P0D0018
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	4/1/20 22:12	JLB	P0D0018
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	4/1/20 22:12	JLB	P0D0018
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	4/1/20 22:12	JLB	P0D0018
Methylene Chloride	**0.24** J	**ug/L**	**1.0**	**0.083**	**1**	**8260D**	**4/1/20 22:12**	**JLB**	**P0D0018**
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 22:12	JLB	P0D0018
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	4/1/20 22:12	JLB	P0D0018
Tetrachloroethylene	**24**	**ug/L**	**0.50**	**0.098**	**1**	**8260D**	**4/1/20 22:12**	**JLB**	**P0D0018**
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 22:12	JLB	P0D0018
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	4/1/20 22:12	JLB	P0D0018
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	4/1/20 22:12	JLB	P0D0018
Trichloroethylene	**210**	**ug/L**	**5.0**	**0.78**	**10**	**8260D**	**4/1/20 22:37**	**JLB**	**P0D0018**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	4/1/20 22:12	JLB	P0D0018
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	4/1/20 22:12	JLB	P0D0018

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*105 %*	*75-129*
Toluene-d8	*104 %*	*77-123*

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: OW-28D-108'
Sample ID: 0030374-18
Work Order: 0030374
Time Collected: 03/27/20 14:50
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**40**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/31/20 18:35**	**TBL**	**P0C0573**

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: Dup-GW
Sample ID: 0030374-19
Work Order: 0030374
Time Collected: 03/27/20 14:52
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 21:23	JLB	P0D0018
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	4/1/20 21:23	JLB	P0D0018
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 21:23	JLB	P0D0018
1,1-Dichloroethane	**3.0**	**ug/L**	**0.50**	**0.083**	**1**	**8260D**	**4/1/20 21:23**	**JLB**	**P0D0018**
1,1-Dichloroethylene	**150**	**ug/L**	**5.0**	**0.83**	**10**	**8260D**	**4/1/20 21:47**	**JLB**	**P0D0018**
1,2-Dichloroethane	**1.6**	**ug/L**	**0.50**	**0.066**	**1**	**8260D**	**4/1/20 21:23**	**JLB**	**P0D0018**
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 21:23	JLB	P0D0018
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	4/1/20 21:23	JLB	P0D0018
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	4/1/20 21:23	JLB	P0D0018
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 21:23	JLB	P0D0018
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	4/1/20 21:23	JLB	P0D0018
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	4/1/20 21:23	JLB	P0D0018
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	4/1/20 21:23	JLB	P0D0018
Carbon Tetrachloride	**0.40** J	**ug/L**	**0.50**	**0.11**	**1**	**8260D**	**4/1/20 21:23**	**JLB**	**P0D0018**
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 21:23	JLB	P0D0018
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	4/1/20 21:23	JLB	P0D0018
Chloroform	**38**	**ug/L**	**0.50**	**0.076**	**1**	**8260D**	**4/1/20 21:23**	**JLB**	**P0D0018**
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 21:23	JLB	P0D0018
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	4/1/20 21:23	JLB	P0D0018
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 21:23	JLB	P0D0018
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	4/1/20 21:23	JLB	P0D0018
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	4/1/20 21:23	JLB	P0D0018
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 21:23	JLB	P0D0018
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	4/1/20 21:23	JLB	P0D0018
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	4/1/20 21:23	JLB	P0D0018
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	4/1/20 21:23	JLB	P0D0018
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	4/1/20 21:23	JLB	P0D0018
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	4/1/20 21:23	JLB	P0D0018
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 21:23	JLB	P0D0018
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	4/1/20 21:23	JLB	P0D0018
Tetrachloroethylene	**21**	**ug/L**	**0.50**	**0.098**	**1**	**8260D**	**4/1/20 21:23**	**JLB**	**P0D0018**
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 21:23	JLB	P0D0018
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	4/1/20 21:23	JLB	P0D0018
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	4/1/20 21:23	JLB	P0D0018
Trichloroethylene	**190**	**ug/L**	**5.0**	**0.78**	**10**	**8260D**	**4/1/20 21:47**	**JLB**	**P0D0018**
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	4/1/20 21:23	JLB	P0D0018
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	4/1/20 21:23	JLB	P0D0018

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*104 %*	*75-129*
Toluene-d8	*105 %*	*77-123*

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: Dup-GW
Sample ID: 0030374-19
Work Order: 0030374
Time Collected: 03/27/20 14:52
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS SIM									
1,4-Dioxane	**6.6**	**ug/L**	**2.0**	**0.14**	**1**	**8260D SIM**	**3/31/20 19:00**	**TBL**	**P0C0573**

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Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: Trip Blank
Sample ID: 0030374-20
Work Order: 0030374
Time Collected: 03/27/20 00:00
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 18:53	JLB	P0D0019
1,1,2,2-Tetrachloroethane	0.036 U	ug/L	0.50	0.036	1	8260D	4/1/20 18:53	JLB	P0D0019
1,1,2-Trichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 18:53	JLB	P0D0019
1,1-Dichloroethane	0.083 U	ug/L	0.50	0.083	1	8260D	4/1/20 18:53	JLB	P0D0019
1,1-Dichloroethylene	0.083 U	ug/L	0.50	0.083	1	8260D	4/1/20 18:53	JLB	P0D0019
1,2-Dichloroethane	0.066 U	ug/L	0.50	0.066	1	8260D	4/1/20 18:53	JLB	P0D0019
1,2-Dichloropropane	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 18:53	JLB	P0D0019
Acetone	0.31 U	ug/L	5.0	0.31	1	8260D	4/1/20 18:53	JLB	P0D0019
Benzene	0.048 U	ug/L	0.50	0.048	1	8260D	4/1/20 18:53	JLB	P0D0019
Bromodichloromethane	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 18:53	JLB	P0D0019
Bromoform	0.040 U	ug/L	1.0	0.040	1	8260D	4/1/20 18:53	JLB	P0D0019
Bromomethane	0.18 U	ug/L	1.0	0.18	1	8260D	4/1/20 18:53	JLB	P0D0019
Carbon disulfide	0.075 U	ug/L	5.0	0.075	1	8260D	4/1/20 18:53	JLB	P0D0019
Carbon Tetrachloride	0.11 U	ug/L	0.50	0.11	1	8260D	4/1/20 18:53	JLB	P0D0019
Chlorobenzene	0.062 U	ug/L	0.50	0.062	1	8260D	4/1/20 18:53	JLB	P0D0019
Chloroethane	0.22 U	ug/L	0.50	0.22	1	8260D	4/1/20 18:53	JLB	P0D0019
Chloroform	0.076 U	ug/L	0.50	0.076	1	8260D	4/1/20 18:53	JLB	P0D0019
Chloromethane	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 18:53	JLB	P0D0019
cis-1,2-Dichloroethylene	0.056 U	ug/L	0.50	0.056	1	8260D	4/1/20 18:53	JLB	P0D0019
cis-1,3-Dichloropropylene	0.079 U	ug/L	0.50	0.079	1	8260D	4/1/20 18:53	JLB	P0D0019
Dibromochloromethane	0.081 U	ug/L	0.50	0.081	1	8260D	4/1/20 18:53	JLB	P0D0019
Dichlorodifluoromethane	0.11 U	ug/L	5.0	0.11	1	8260D	4/1/20 18:53	JLB	P0D0019
Ethylbenzene	0.061 U	ug/L	0.50	0.061	1	8260D	4/1/20 18:53	JLB	P0D0019
m,p-Xylenes	0.12 U	ug/L	1.0	0.12	1	8260D	4/1/20 18:53	JLB	P0D0019
Methyl Butyl Ketone (2-Hexanone)	0.065 U	ug/L	5.0	0.065	1	8260D	4/1/20 18:53	JLB	P0D0019
Methyl Ethyl Ketone (2-Butanone)	0.24 U	ug/L	5.0	0.24	1	8260D	4/1/20 18:53	JLB	P0D0019
Methyl Isobutyl Ketone	0.078 U	ug/L	5.0	0.078	1	8260D	4/1/20 18:53	JLB	P0D0019
Methylene Chloride	0.083 U	ug/L	1.0	0.083	1	8260D	4/1/20 18:53	JLB	P0D0019
o-Xylene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 18:53	JLB	P0D0019
Styrene	0.047 U	ug/L	0.50	0.047	1	8260D	4/1/20 18:53	JLB	P0D0019
Tetrachloroethylene	0.098 U	ug/L	0.50	0.098	1	8260D	4/1/20 18:53	JLB	P0D0019
Toluene	0.044 U	ug/L	0.50	0.044	1	8260D	4/1/20 18:53	JLB	P0D0019
trans-1,2-Dichloroethylene	0.094 U	ug/L	0.50	0.094	1	8260D	4/1/20 18:53	JLB	P0D0019
trans-1,3-Dichloropropylene	0.070 U	ug/L	0.50	0.070	1	8260D	4/1/20 18:53	JLB	P0D0019
Trichloroethylene	0.078 U	ug/L	0.50	0.078	1	8260D	4/1/20 18:53	JLB	P0D0019
Vinyl chloride	0.097 U	ug/L	0.50	0.097	1	8260D	4/1/20 18:53	JLB	P0D0019
Xylenes, total	0.15 U	ug/L	1.5	0.15	1	8260D	4/1/20 18:53	JLB	P0D0019

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*106 %*	*75-129*
Toluene-d8	*96 %*	*77-123*

Volatile Organic Compounds by GC/MS SIM

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Laboratory Report

04/06/2020

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No.: Ascend
Sample Matrix: Water

Client Sample ID: Trip Blank
Sample ID: 0030374-20
Work Order: 0030374
Time Collected: 03/27/20 00:00
Time Submitted: 03/30/20 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dioxane	0.14 U	ug/L	2.0	0.14	1	8260D SIM	3/31/20 11:02	TBL	P0C0573

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030374
Time Submitted: 3/30/2020 1:15:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0D0018 - 5030B										
Blank (P0D0018-BLK1)				Prepared & Analyzed: 04/01/20						
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
Acetone	0.720	5.0	ug/L							J
Benzene	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	5.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
o-Xylene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	1.5	ug/L							
Surrogate: 4-Bromofluorobenzene	*51.8*		*ug/L*	*50.00*		*104*	*80-124*			
Surrogate: Dibromofluoromethane	*53.2*		*ug/L*	*50.00*		*106*	*75-129*			
Surrogate: Toluene-d8	*52.9*		*ug/L*	*50.00*		*106*	*77-123*			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030374
Time Submitted: 3/30/2020 1:15:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0D0018 - 5030B										
LCS (P0D0018-BS1)				Prepared & Analyzed: 04/01/20						
1,1,1,2-Tetrachloroethane	18.9	0.50	ug/L	20.00		94	79-134			
1,1,1-Trichloroethane	17.8	0.50	ug/L	20.00		89	75-136			
1,1,2,2-Tetrachloroethane	21.2	0.50	ug/L	20.00		106	62-127			
1,1,2-Trichloroethane	18.4	0.50	ug/L	20.00		92	70-140			
1,1-Dichloroethane	17.9	0.50	ug/L	20.00		90	78-130			
1,1-Dichloroethylene	17.2	0.50	ug/L	20.00		86	70-154			
1,1-Dichloropropylene	17.7	0.50	ug/L	20.00		89	71-136			
1,2,3-Trichlorobenzene	23.7	2.0	ug/L	20.00		119	58-144			
1,2,3-Trichloropropane	20.4	1.0	ug/L	20.00		102	71-127			
1,2,4-Trichlorobenzene	23.4	1.0	ug/L	20.00		117	66-139			
1,2,4-Trimethylbenzene	22.0	0.50	ug/L	20.00		110	75-133			
1,2-Dibromo-3-chloropropane	22.3	2.0	ug/L	20.00		112	63-134			
1,2-Dibromoethane	18.7	0.50	ug/L	20.00		93	77-135			
1,2-Dichlorobenzene	21.7	0.50	ug/L	20.00		108	78-128			
1,2-Dichloroethane	17.6	0.50	ug/L	20.00		88	68-131			
1,2-Dichloropropane	18.2	0.50	ug/L	20.00		91	77-130			
1,3,5-Trimethylbenzene	21.8	0.50	ug/L	20.00		109	75-131			
1,3-Dichlorobenzene	21.4	0.50	ug/L	20.00		107	77-125			
1,3-Dichloropropane	18.4	0.50	ug/L	20.00		92	76-132			
1,4-Dichlorobenzene	20.9	0.50	ug/L	20.00		104	75-126			
2,2-Dichloropropane	18.4	2.0	ug/L	20.00		92	29-149			
2-Chlorotoluene	20.8	0.50	ug/L	20.00		104	74-126			
4-Chlorotoluene	20.9	0.50	ug/L	20.00		104	78-129			
4-Isopropyltoluene	21.7	0.50	ug/L	20.00		108	69-132			
Acetone	31.0	5.0	ug/L	40.00		78	40-166			
Acrolein	42.4	20	ug/L	40.00		106	70-130			
Acrylonitrile	38.7	20	ug/L	40.00		97	81-127			
Benzene	17.6	0.50	ug/L	20.00		88	77-128			
Bromobenzene	21.1	0.50	ug/L	20.00		106	78-129			
Bromochloromethane	18.4	0.50	ug/L	20.00		92	78-135			
Bromodichloromethane	18.4	0.50	ug/L	20.00		92	76-138			
Bromoform	18.0	1.0	ug/L	20.00		90	71-135			
Bromomethane	17.9	1.0	ug/L	20.00		89	41-168			
Carbon disulfide	17.1	5.0	ug/L	20.00		85	59-135			
Carbon Tetrachloride	17.9	0.50	ug/L	20.00		90	72-142			
Chlorobenzene	18.4	0.50	ug/L	20.00		92	78-119			
Chloroethane	18.1	0.50	ug/L	20.00		90	57-142			
Chloroform	17.5	0.50	ug/L	20.00		88	77-130			
Chloromethane	20.6	0.50	ug/L	20.00		103	47-145			
cis-1,2-Dichloroethylene	17.9	0.50	ug/L	20.00		89	76-141			
cis-1,3-Dichloropropylene	18.7	0.50	ug/L	20.00		94	65-140			
Dibromochloromethane	20.0	0.50	ug/L	20.00		100	75-134			
Dibromomethane	18.3	0.50	ug/L	20.00		92	76-138			
Dichlorodifluoromethane	23.5	5.0	ug/L	20.00		118	28-163			
Ethylbenzene	18.2	0.50	ug/L	20.00		91	80-127			
Hexachlorobutadiene	22.4	2.0	ug/L	20.00		112	61-134			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030374
Time Submitted: 3/30/2020 1:15:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0D0018 - 5030B										
LCS (P0D0018-BS1)				Prepared & Analyzed: 04/01/20						
Isopropyl Ether	17.8	0.50	ug/L	20.00		89	60-154			
Isopropylbenzene (Cumene)	21.4	0.50	ug/L	20.00		107	70-130			
m,p-Xylenes	37.5	1.0	ug/L	40.00		94	77-133			
Methyl Butyl Ketone (2-Hexanone)	19.1	5.0	ug/L	20.00		95	64-137			
Methyl Ethyl Ketone (2-Butanone)	16.8	5.0	ug/L	20.00		84	71-134			
Methyl Isobutyl Ketone	18.4	5.0	ug/L	20.00		92	69-134			
Methylene Chloride	17.1	1.0	ug/L	20.00		86	73-131			
Methyl-tert-Butyl Ether	17.9	0.50	ug/L	20.00		89	68-135			
Naphthalene	22.0	1.0	ug/L	20.00		110	64-136			
n-Butylbenzene	22.1	1.0	ug/L	20.00		111	68-134			
n-Propylbenzene	21.4	0.50	ug/L	20.00		107	72-132			
o-Xylene	18.7	0.50	ug/L	20.00		94	78-128			
sec-Butylbenzene	21.7	0.50	ug/L	20.00		108	71-131			
Styrene	19.0	0.50	ug/L	20.00		95	78-129			
tert-Butylbenzene	21.5	0.50	ug/L	20.00		107	70-132			
Tetrachloroethylene	18.3	0.50	ug/L	20.00		91	80-129			
Toluene	17.8	0.50	ug/L	20.00		89	76-131			
trans-1,2-Dichloroethylene	17.6	0.50	ug/L	20.00		88	76-135			
trans-1,3-Dichloropropylene	18.6	0.50	ug/L	20.00		93	67-140			
Trichloroethylene	18.1	0.50	ug/L	20.00		91	77-133			
Trichlorofluoromethane	22.5	0.50	ug/L	20.00		112	62-148			
Vinyl acetate	19.9	2.0	ug/L	20.00		100	34-167			
Vinyl chloride	21.9	0.50	ug/L	20.00		109	57-141			
Xylenes, total	56.2	1.5	ug/L	60.00		94	77-133			
Surrogate: 4-Bromofluorobenzene	*51.3*		*ug/L*	*50.00*		*103*	*80-124*			
Surrogate: Dibromofluoromethane	*52.8*		*ug/L*	*50.00*		*106*	*75-129*			
Surrogate: Toluene-d8	*52.9*		*ug/L*	*50.00*		*106*	*77-123*			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030374
Time Submitted: 3/30/2020 1:15:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0D0018 - 5030B										
Matrix Spike (P0D0018-MS1)	**Source: 0030374-08**			Prepared: 04/01/20	Analyzed: 04/02/20					
1,1,1,2-Tetrachloroethane	193	5.0	ug/L	200.0	BRL	96	78-134			
1,1,1-Trichloroethane	190	5.0	ug/L	200.0	BRL	95	67-145			
1,1,2,2-Tetrachloroethane	216	5.0	ug/L	200.0	BRL	108	68-123			
1,1,2-Trichloroethane	190	5.0	ug/L	200.0	BRL	95	75-134			
1,1-Dichloroethane	191	5.0	ug/L	200.0	1.06	95	75-134			
1,1-Dichloroethylene	197	5.0	ug/L	200.0	15.9	91	65-162			
1,1-Dichloropropylene	190	5.0	ug/L	200.0	BRL	95	68-140			
1,2,3-Trichlorobenzene	228	20	ug/L	200.0	BRL	114	56-146			
1,2,3-Trichloropropane	212	10	ug/L	200.0	BRL	106	73-122			
1,2,4-Trichlorobenzene	230	10	ug/L	200.0	BRL	115	67-135			
1,2,4-Trimethylbenzene	231	5.0	ug/L	200.0	BRL	115	75-131			
1,2-Dibromo-3-chloropropane	218	20	ug/L	200.0	BRL	109	64-133			
1,2-Dibromoethane	190	5.0	ug/L	200.0	BRL	95	80-129			
1,2-Dichlorobenzene	225	5.0	ug/L	200.0	BRL	113	80-125			
1,2-Dichloroethane	190	5.0	ug/L	200.0	BRL	95	69-129			
1,2-Dichloropropane	192	5.0	ug/L	200.0	BRL	96	75-131			
1,3,5-Trimethylbenzene	230	5.0	ug/L	200.0	BRL	115	75-131			
1,3-Dichlorobenzene	225	5.0	ug/L	200.0	BRL	113	79-122			
1,3-Dichloropropane	192	5.0	ug/L	200.0	BRL	96	80-125			
1,4-Dichlorobenzene	219	5.0	ug/L	200.0	BRL	110	76-124			
2,2-Dichloropropane	177	20	ug/L	200.0	BRL	88	21-140			
2-Chlorotoluene	222	5.0	ug/L	200.0	BRL	111	75-125			
4-Chlorotoluene	223	5.0	ug/L	200.0	BRL	111	76-130			
4-Isopropyltoluene	230	5.0	ug/L	200.0	BRL	115	72-129			
Acetone	285	50	ug/L	400.0	BRL	71	40-162			
Acrolein	441	200	ug/L	400.0	BRL	110	70-130			
Acrylonitrile	392	200	ug/L	400.0	BRL	98	78-129			
Benzene	188	5.0	ug/L	200.0	BRL	94	73-131			
Bromobenzene	220	5.0	ug/L	200.0	BRL	110	80-125			
Bromochloromethane	195	5.0	ug/L	200.0	BRL	98	78-135			
Bromodichloromethane	196	5.0	ug/L	200.0	BRL	98	74-138			
Bromoform	173	10	ug/L	200.0	BRL	86	72-130			
Bromomethane	144	10	ug/L	200.0	BRL	72	41-173			
Carbon disulfide	180	50	ug/L	200.0	BRL	90	59-138			
Carbon Tetrachloride	198	5.0	ug/L	200.0	9.32	94	66-149			
Chlorobenzene	193	5.0	ug/L	200.0	BRL	96	76-119			
Chloroethane	175	5.0	ug/L	200.0	BRL	87	52-153			
Chloroform	195	5.0	ug/L	200.0	6.37	95	74-136			
Chloromethane	210	5.0	ug/L	200.0	BRL	105	39-155			
cis-1,2-Dichloroethylene	193	5.0	ug/L	200.0	BRL	96	74-144			
cis-1,3-Dichloropropylene	188	5.0	ug/L	200.0	BRL	94	64-132			
Dibromochloromethane	194	5.0	ug/L	200.0	BRL	97	77-131			
Dibromomethane	193	5.0	ug/L	200.0	BRL	96	76-136			
Dichlorodifluoromethane	228	50	ug/L	200.0	BRL	114	22-170			
Ethylbenzene	192	5.0	ug/L	200.0	BRL	96	78-130			
Hexachlorobutadiene	219	20	ug/L	200.0	BRL	109	63-132			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030374
Time Submitted: 3/30/2020 1:15:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0D0018 - 5030B										
Matrix Spike (P0D0018-MS1)	**Source: 0030374-08**			Prepared: 04/01/20	Analyzed: 04/02/20					
Isopropyl Ether	188	5.0	ug/L	200.0	BRL	94	62-154			
Isopropylbenzene (Cumene)	228	5.0	ug/L	200.0	BRL	114	72-127			
m,p-Xylenes	394	10	ug/L	400.0	BRL	98	66-144			
Methyl Butyl Ketone (2-Hexanone)	183	50	ug/L	200.0	BRL	92	65-130			
Methyl Ethyl Ketone (2-Butanone)	158	50	ug/L	200.0	BRL	79	65-137			
Methyl Isobutyl Ketone	184	50	ug/L	200.0	BRL	92	64-137			
Methylene Chloride	180	10	ug/L	200.0	BRL	90	71-134			
Methyl-tert-Butyl Ether	187	5.0	ug/L	200.0	BRL	93	71-133			
Naphthalene	212	10	ug/L	200.0	BRL	106	63-134			
n-Butylbenzene	227	10	ug/L	200.0	BRL	113	69-132			
n-Propylbenzene	228	5.0	ug/L	200.0	BRL	114	75-130			
o-Xylene	196	5.0	ug/L	200.0	BRL	98	75-131			
sec-Butylbenzene	231	5.0	ug/L	200.0	BRL	115	72-130			
Styrene	200	5.0	ug/L	200.0	BRL	100	77-128			
tert-Butylbenzene	227	5.0	ug/L	200.0	BRL	114	72-130			
Tetrachloroethylene	194	5.0	ug/L	200.0	BRL	97	76-130			
Toluene	190	5.0	ug/L	200.0	BRL	95	72-135			
trans-1,2-Dichloroethylene	186	5.0	ug/L	200.0	BRL	93	73-141			
trans-1,3-Dichloropropylene	188	5.0	ug/L	200.0	BRL	94	64-137			
Trichloroethylene	210	5.0	ug/L	200.0	18.9	96	72-133			
Trichlorofluoromethane	224	5.0	ug/L	200.0	BRL	112	61-152			
Vinyl acetate	209	20	ug/L	200.0	BRL	104	80-154			
Vinyl chloride	212	5.0	ug/L	200.0	BRL	106	54-146			
Xylenes, total	590	15	ug/L	600.0	BRL	98	66-144			
Surrogate: 4-Bromofluorobenzene	*51.2*		*ug/L*	*50.00*		*102*	*80-124*			
Surrogate: Dibromofluoromethane	*53.7*		*ug/L*	*50.00*		*107*	*75-129*			
Surrogate: Toluene-d8	*51.7*		*ug/L*	*50.00*		*103*	*77-123*			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030374
Time Submitted: 3/30/2020 1:15:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0D0018 - 5030B										
Matrix Spike Dup (P0D0018-MSD1)	**Source: 0030374-08**			Prepared: 04/01/20	Analyzed: 04/02/20					
1,1,1,2-Tetrachloroethane	184	5.0	ug/L	200.0	BRL	92	78-134	4	19	
1,1,1-Trichloroethane	183	5.0	ug/L	200.0	BRL	92	67-145	4	18	
1,1,2,2-Tetrachloroethane	212	5.0	ug/L	200.0	BRL	106	68-123	2	19	
1,1,2-Trichloroethane	188	5.0	ug/L	200.0	BRL	94	75-134	1	18	
1,1-Dichloroethane	185	5.0	ug/L	200.0	1.06	92	75-134	3	18	
1,1-Dichloroethylene	187	5.0	ug/L	200.0	15.9	86	65-162	5	20	
1,1-Dichloropropylene	180	5.0	ug/L	200.0	BRL	90	68-140	5	19	
1,2,3-Trichlorobenzene	244	20	ug/L	200.0	BRL	122	56-146	7	31	
1,2,3-Trichloropropane	201	10	ug/L	200.0	BRL	101	73-122	5	18	
1,2,4-Trichlorobenzene	232	10	ug/L	200.0	BRL	116	67-135	1	20	
1,2,4-Trimethylbenzene	218	5.0	ug/L	200.0	BRL	109	75-131	6	18	
1,2-Dibromo-3-chloropropane	210	20	ug/L	200.0	BRL	105	64-133	4	25	
1,2-Dibromoethane	186	5.0	ug/L	200.0	BRL	93	80-129	2	19	
1,2-Dichlorobenzene	218	5.0	ug/L	200.0	BRL	109	80-125	3	16	
1,2-Dichloroethane	184	5.0	ug/L	200.0	BRL	92	69-129	4	17	
1,2-Dichloropropane	186	5.0	ug/L	200.0	BRL	93	75-131	3	17	
1,3,5-Trimethylbenzene	215	5.0	ug/L	200.0	BRL	108	75-131	7	19	
1,3-Dichlorobenzene	212	5.0	ug/L	200.0	BRL	106	79-122	6	17	
1,3-Dichloropropane	184	5.0	ug/L	200.0	BRL	92	80-125	4	18	
1,4-Dichlorobenzene	209	5.0	ug/L	200.0	BRL	104	76-124	5	17	
2,2-Dichloropropane	168	20	ug/L	200.0	BRL	84	21-140	5	19	
2-Chlorotoluene	209	5.0	ug/L	200.0	BRL	104	75-125	6	24	
4-Chlorotoluene	210	5.0	ug/L	200.0	BRL	105	76-130	6	16	
4-Isopropyltoluene	214	5.0	ug/L	200.0	BRL	107	72-129	7	19	
Acetone	285	50	ug/L	400.0	BRL	71	40-162	0.1	23	
Acrolein	436	200	ug/L	400.0	BRL	109	70-130	1	20	
Acrylonitrile	394	200	ug/L	400.0	BRL	99	78-129	0.6	20	
Benzene	182	5.0	ug/L	200.0	BRL	91	73-131	3	17	
Bromobenzene	209	5.0	ug/L	200.0	BRL	104	80-125	5	18	
Bromochloromethane	196	5.0	ug/L	200.0	BRL	98	78-135	0.05	17	
Bromodichloromethane	188	5.0	ug/L	200.0	BRL	94	74-138	4	19	
Bromoform	170	10	ug/L	200.0	BRL	85	72-130	2	22	
Bromomethane	150	10	ug/L	200.0	BRL	75	41-173	4	33	
Carbon disulfide	170	50	ug/L	200.0	BRL	85	59-138	6	27	
Carbon Tetrachloride	189	5.0	ug/L	200.0	9.32	90	66-149	5	23	
Chlorobenzene	183	5.0	ug/L	200.0	BRL	91	76-119	5	20	
Chloroethane	162	5.0	ug/L	200.0	BRL	81	52-153	7	24	
Chloroform	191	5.0	ug/L	200.0	6.37	92	74-136	2	19	
Chloromethane	182	5.0	ug/L	200.0	BRL	91	39-155	14	20	
cis-1,2-Dichloroethylene	185	5.0	ug/L	200.0	BRL	92	74-144	4	17	
cis-1,3-Dichloropropylene	185	5.0	ug/L	200.0	BRL	92	64-132	2	18	
Dibromochloromethane	192	5.0	ug/L	200.0	BRL	96	77-131	1	21	
Dibromomethane	190	5.0	ug/L	200.0	BRL	95	76-136	1	18	
Dichlorodifluoromethane	216	50	ug/L	200.0	BRL	108	22-170	6	22	
Ethylbenzene	182	5.0	ug/L	200.0	BRL	91	78-130	5	18	
Hexachlorobutadiene	213	20	ug/L	200.0	BRL	107	63-132	2	26	

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030374
Time Submitted: 3/30/2020 1:15:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0D0018 - 5030B										
Matrix Spike Dup (P0D0018-MSD1)	**Source: 0030374-08**			Prepared: 04/01/20	Analyzed: 04/02/20					
Isopropyl Ether	186	5.0	ug/L	200.0	BRL	93	62-154	1	18	
Isopropylbenzene (Cumene)	213	5.0	ug/L	200.0	BRL	106	72-127	7	19	
m,p-Xylenes	375	10	ug/L	400.0	BRL	94	66-144	5	19	
Methyl Butyl Ketone (2-Hexanone)	178	50	ug/L	200.0	BRL	89	65-130	3	23	
Methyl Ethyl Ketone (2-Butanone)	159	50	ug/L	200.0	BRL	79	65-137	0.2	23	
Methyl Isobutyl Ketone	183	50	ug/L	200.0	BRL	91	64-137	0.8	24	
Methylene Chloride	176	10	ug/L	200.0	BRL	88	71-134	2	17	
Methyl-tert-Butyl Ether	186	5.0	ug/L	200.0	BRL	93	71-133	0.3	19	
Naphthalene	219	10	ug/L	200.0	BRL	109	63-134	3	32	
n-Butylbenzene	209	10	ug/L	200.0	BRL	104	69-132	8	21	
n-Propylbenzene	211	5.0	ug/L	200.0	BRL	106	75-130	8	18	
o-Xylene	188	5.0	ug/L	200.0	BRL	94	75-131	4	20	
sec-Butylbenzene	212	5.0	ug/L	200.0	BRL	106	72-130	8	20	
Styrene	190	5.0	ug/L	200.0	BRL	95	77-128	5	17	
tert-Butylbenzene	213	5.0	ug/L	200.0	BRL	106	72-130	7	20	
Tetrachloroethylene	184	5.0	ug/L	200.0	BRL	92	76-130	5	20	
Toluene	185	5.0	ug/L	200.0	BRL	92	72-135	3	18	
trans-1,2-Dichloroethylene	180	5.0	ug/L	200.0	BRL	90	73-141	3	18	
trans-1,3-Dichloropropylene	185	5.0	ug/L	200.0	BRL	92	64-137	2	21	
Trichloroethylene	200	5.0	ug/L	200.0	18.9	90	72-133	5	17	
Trichlorofluoromethane	210	5.0	ug/L	200.0	BRL	105	61-152	6	27	
Vinyl acetate	206	20	ug/L	200.0	BRL	103	80-154	1	18	
Vinyl chloride	205	5.0	ug/L	200.0	BRL	103	54-146	3	25	
Xylenes, total	563	15	ug/L	600.0	BRL	94	66-144	5	20	
Surrogate: 4-Bromofluorobenzene	*50.7*		*ug/L*	*50.00*		*101*	*80-124*			
Surrogate: Dibromofluoromethane	*54.1*		*ug/L*	*50.00*		*108*	*75-129*			
Surrogate: Toluene-d8	*51.6*		*ug/L*	*50.00*		*103*	*77-123*			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030374
Time Submitted: 3/30/2020 1:15:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0D0019 - SM6200 B										
Blank (P0D0019-BLK1)				Prepared & Analyzed: 04/01/20						
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
Acetone	0.640	5.0	ug/L							J
Benzene	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	5.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
o-Xylene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	1.5	ug/L							
Surrogate: 4-Bromofluorobenzene	*50.6*		*ug/L*	*50.00*		*101*	*80-124*			
Surrogate: Dibromofluoromethane	*52.5*		*ug/L*	*50.00*		*105*	*75-129*			
Surrogate: Toluene-d8	*48.5*		*ug/L*	*50.00*		*97*	*77-123*			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030374
Time Submitted: 3/30/2020 1:15:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0D0019 - SM6200 B										
LCS (P0D0019-BS1)				Prepared & Analyzed: 04/01/20						
1,1,1,2-Tetrachloroethane	18.1	0.50	ug/L	20.00		90	79-134			
1,1,1-Trichloroethane	18.5	0.50	ug/L	20.00		92	75-136			
1,1,2,2-Tetrachloroethane	18.0	0.50	ug/L	20.00		90	62-127			
1,1,2-Trichloroethane	19.0	0.50	ug/L	20.00		95	70-140			
1,1-Dichloroethane	18.8	0.50	ug/L	20.00		94	78-130			
1,1-Dichloroethylene	18.7	0.50	ug/L	20.00		93	70-154			
1,1-Dichloropropylene	18.6	0.50	ug/L	20.00		93	71-136			
1,2,3-Trichlorobenzene	22.5	2.0	ug/L	20.00		112	58-144			
1,2,3-Trichloropropane	17.4	1.0	ug/L	20.00		87	71-127			
1,2,4-Trichlorobenzene	20.4	1.0	ug/L	20.00		102	66-139			
1,2,4-Trimethylbenzene	19.0	0.50	ug/L	20.00		95	75-133			
1,2-Dibromo-3-chloropropane	18.7	2.0	ug/L	20.00		94	63-134			
1,2-Dibromoethane	17.8	0.50	ug/L	20.00		89	77-135			
1,2-Dichlorobenzene	19.8	0.50	ug/L	20.00		99	78-128			
1,2-Dichloroethane	17.2	0.50	ug/L	20.00		86	68-131			
1,2-Dichloropropane	18.5	0.50	ug/L	20.00		93	77-130			
1,3,5-Trimethylbenzene	19.3	0.50	ug/L	20.00		96	75-131			
1,3-Dichlorobenzene	19.5	0.50	ug/L	20.00		98	77-125			
1,3-Dichloropropane	17.3	0.50	ug/L	20.00		86	76-132			
1,4-Dichlorobenzene	18.7	0.50	ug/L	20.00		93	75-126			
2,2-Dichloropropane	18.8	2.0	ug/L	20.00		94	29-149			
2-Chlorotoluene	19.1	0.50	ug/L	20.00		96	74-126			
4-Chlorotoluene	19.0	0.50	ug/L	20.00		95	78-129			
4-Isopropyltoluene	20.1	0.50	ug/L	20.00		100	69-132			
Acetone	31.4	5.0	ug/L	40.00		79	40-166			
Acrolein	35.7	20	ug/L	40.00		89	70-130			
Acrylonitrile	39.2	20	ug/L	40.00		98	81-127			
Benzene	19.2	0.50	ug/L	20.00		96	77-128			
Bromobenzene	18.3	0.50	ug/L	20.00		92	78-129			
Bromochloromethane	19.1	0.50	ug/L	20.00		95	78-135			
Bromodichloromethane	18.6	0.50	ug/L	20.00		93	76-138			
Bromoform	17.9	1.0	ug/L	20.00		90	71-135			
Bromomethane	19.4	1.0	ug/L	20.00		97	41-168			
Carbon disulfide	18.9	5.0	ug/L	20.00		94	59-135			
Carbon Tetrachloride	18.4	0.50	ug/L	20.00		92	72-142			
Chlorobenzene	18.3	0.50	ug/L	20.00		92	78-119			
Chloroethane	25.1	0.50	ug/L	20.00		125	57-142			
Chloroform	18.6	0.50	ug/L	20.00		93	77-130			
Chloromethane	20.2	0.50	ug/L	20.00		101	47-145			
cis-1,2-Dichloroethylene	18.5	0.50	ug/L	20.00		92	76-141			
cis-1,3-Dichloropropylene	18.4	0.50	ug/L	20.00		92	65-140			
Dibromochloromethane	17.6	0.50	ug/L	20.00		88	75-134			
Dibromomethane	18.3	0.50	ug/L	20.00		91	76-138			
Dichlorodifluoromethane	23.0	5.0	ug/L	20.00		115	28-163			
Ethylbenzene	18.1	0.50	ug/L	20.00		90	80-127			
Hexachlorobutadiene	23.2	2.0	ug/L	20.00		116	61-134			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030374
Time Submitted: 3/30/2020 1:15:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0D0019 - SM6200 B										
LCS (P0D0019-BS1)				Prepared & Analyzed: 04/01/20						
Isopropyl Ether	17.8	0.50	ug/L	20.00		89	60-154			
Isopropylbenzene (Cumene)	19.4	0.50	ug/L	20.00		97	70-130			
m,p-Xylenes	37.0	1.0	ug/L	40.00		92	77-133			
Methyl Butyl Ketone (2-Hexanone)	17.1	5.0	ug/L	20.00		85	64-137			
Methyl Ethyl Ketone (2-Butanone)	19.3	5.0	ug/L	20.00		97	71-134			
Methyl Isobutyl Ketone	18.0	5.0	ug/L	20.00		90	69-134			
Methylene Chloride	16.6	1.0	ug/L	20.00		83	73-131			
Methyl-tert-Butyl Ether	18.0	0.50	ug/L	20.00		90	68-135			
Naphthalene	20.1	1.0	ug/L	20.00		100	64-136			
n-Butylbenzene	20.0	1.0	ug/L	20.00		100	68-134			
n-Propylbenzene	19.9	0.50	ug/L	20.00		99	72-132			
o-Xylene	18.2	0.50	ug/L	20.00		91	78-128			
sec-Butylbenzene	19.9	0.50	ug/L	20.00		100	71-131			
Styrene	18.5	0.50	ug/L	20.00		92	78-129			
tert-Butylbenzene	19.8	0.50	ug/L	20.00		99	70-132			
Tetrachloroethylene	18.4	0.50	ug/L	20.00		92	80-129			
Toluene	18.9	0.50	ug/L	20.00		95	76-131			
trans-1,2-Dichloroethylene	18.7	0.50	ug/L	20.00		94	76-135			
trans-1,3-Dichloropropylene	18.2	0.50	ug/L	20.00		91	67-140			
Trichloroethylene	19.5	0.50	ug/L	20.00		97	77-133			
Trichlorofluoromethane	24.5	0.50	ug/L	20.00		122	62-148			
Vinyl acetate	20.2	2.0	ug/L	20.00		101	34-167			
Vinyl chloride	23.0	0.50	ug/L	20.00		115	57-141			
Xylenes, total	55.2	1.5	ug/L	60.00		92	77-133			
Surrogate: 4-Bromofluorobenzene	*51.3*		*ug/L*	*50.00*		*103*	*80-124*			
Surrogate: Dibromofluoromethane	*51.7*		*ug/L*	*50.00*		*103*	*75-129*			
Surrogate: Toluene-d8	*48.8*		*ug/L*	*50.00*		*98*	*77-123*			

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HRP Associates, Inc.
Attn: Daniel McDonnell
1327 Miller Road, Suite D
Greenville, SC 29607

Project: Ascend

Project No: Ascend

Work Order: 0030374
Time Submitted: 3/30/2020 1:15:00PM

Volatile Organic Compounds by GC/MS SIM - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0C0573 - 5030B										
Blank (P0C0573-BLK1)				Prepared & Analyzed: 03/31/20						
1,4-Dioxane	BRL	2.0	ug/L							
LCS (P0C0573-BS1)				Prepared & Analyzed: 03/31/20						
1,4-Dioxane	50.8	2.0	ug/L	50.00		102	55-145			
Matrix Spike (P0C0573-MS1)	**Source: 0030374-01**			Prepared & Analyzed: 03/31/20						
1,4-Dioxane	54.0	2.0	ug/L	50.00	5.82	96	55-145			
Matrix Spike Dup (P0C0573-MSD1)	**Source: 0030374-01**			Prepared & Analyzed: 03/31/20						
1,4-Dioxane	53.7	2.0	ug/L	50.00	5.82	96	55-145	0.6	30	

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Sample Extraction Data

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
0030374-06	P0D0018	10 mL	10 mL	04/01/20 15:00
0030374-07	P0D0018	10 mL	10 mL	04/01/20 15:00
0030374-08	P0D0018	10 mL	10 mL	04/01/20 15:00
0030374-09	P0D0018	10 mL	10 mL	04/01/20 15:00
0030374-10	P0D0018	10 mL	10 mL	04/01/20 15:00
0030374-11	P0D0018	10 mL	10 mL	04/01/20 15:00
0030374-12	P0D0018	10 mL	10 mL	04/01/20 15:00
0030374-13	P0D0018	10 mL	10 mL	04/01/20 15:00
0030374-14	P0D0018	10 mL	10 mL	04/01/20 15:00
0030374-15	P0D0018	10 mL	10 mL	04/01/20 15:00
0030374-16	P0D0018	10 mL	10 mL	04/01/20 15:00
0030374-16	P0D0018	10 mL	10 mL	04/01/20 15:00
0030374-17	P0D0018	10 mL	10 mL	04/01/20 15:00
0030374-17	P0D0018	10 mL	10 mL	04/01/20 15:00
0030374-18	P0D0018	10 mL	10 mL	04/01/20 15:00
0030374-18	P0D0018	10 mL	10 mL	04/01/20 15:00
0030374-19	P0D0018	10 mL	10 mL	04/01/20 15:00
0030374-19	P0D0018	10 mL	10 mL	04/01/20 15:00

Prep Method: SM6200 B

Lab Number	Batch	Initial	Final	Date/Time
0030374-01	P0D0019	10 mL	10 mL	04/01/20 15:00
0030374-02	P0D0019	10 mL	10 mL	04/01/20 15:00
0030374-03	P0D0019	10 mL	10 mL	04/01/20 15:00
0030374-04	P0D0019	10 mL	10 mL	04/01/20 15:00
0030374-05	P0D0019	10 mL	10 mL	04/01/20 15:00
0030374-20	P0D0019	10 mL	10 mL	04/01/20 15:00

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
0030374-01	P0C0573	5 mL	5 mL	03/31/20 6:49
0030374-02	P0C0573	5 mL	5 mL	03/31/20 6:49
0030374-03	P0C0573	5 mL	5 mL	03/31/20 6:49
0030374-04	P0C0573	5 mL	5 mL	03/31/20 6:49
0030374-05	P0C0573	5 mL	5 mL	03/31/20 6:49
0030374-06	P0C0573	5 mL	5 mL	03/31/20 6:49
0030374-07	P0C0573	5 mL	5 mL	03/31/20 6:49
0030374-08	P0C0573	5 mL	5 mL	03/31/20 6:49
0030374-09	P0C0573	5 mL	5 mL	03/31/20 6:49
0030374-10	P0C0573	5 mL	5 mL	03/31/20 6:49
0030374-11	P0C0573	5 mL	5 mL	03/31/20 6:49
0030374-12	P0C0573	5 mL	5 mL	03/31/20 6:49
0030374-13	P0C0573	5 mL	5 mL	03/31/20 6:49
0030374-14	P0C0573	5 mL	5 mL	03/31/20 6:49
0030374-15	P0C0573	5 mL	5 mL	03/31/20 6:49
0030374-16	P0C0573	5 mL	5 mL	03/31/20 6:49
0030374-17	P0C0573	5 mL	5 mL	03/31/20 6:49
0030374-18	P0C0573	5 mL	5 mL	03/31/20 6:49
0030374-19	P0C0573	5 mL	5 mL	03/31/20 6:49
0030374-20	P0C0573	5 mL	5 mL	03/31/20 6:49

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CHAIN OF CUSTODY RECORD

Waypoint ANALYTICAL
449 Springbrook Road • Charlotte, NC 21217
Phone 704/529-6364 • Fax: 704/525-0409

PAGE 1 OF 2 QUOTE # TO ENSURE PROPER BILLING:

Client Company Name: HRP Associates
Report To/Contact Name: Dan McDonnell
Reporting Address: 1327 Miller Road Suite D, Greenville, SC 29607
Phone: 864-254-0311 Fax (Yes)(No):
Email Address: daniel.mcdonnell@hrpassociates.com
EDD Type: PDF___ Excel X Other
Site Location Name: ASCend
Site Location Physical Address: Greenwood, SC

Project Name: ASCend Performance
Short Hold Analysis (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: HRP Invoices
Address: 197 Scottswamp Road Farmington, CT 06032
Purchase Order No./Billing Reference ASC7oc5.6W

Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days X Standard 10 days ☐ Rush Work Must Be Pre Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY WAYPOINT ANALYTICAL, LLC TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?			

TEMP: Therm ID: IRT-14 Observed 2.1°C /Corr. 2.2°C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ FL____ NC____
SC____ OTHER____ N/A____
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES___NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER, OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSIS REQUESTED 8260	6126 SIM 1,4-Dioxane					REMARKS	ID NO.
CW-01-55'	3-27-20	1110	WT	AG	6	40mL	HCL	X	X						01
CW-01-65'		1115													02
CW-01-75'		1120													03
CW-01-85'		1125													04
CW-01-95'		1130													05
CW-16-63'		1215													06
CW-16-74'		1220													07
CW-17-23'		1240													08
CW-17-34'		1245													09
CW-17-46'	3-27-20	1250	WT	CG	6	40mL	HCL	X	X						10

Sampler's Signature: G. Storm
Sampled By (Print Name): Storm Caldwell
Affiliation: HRP

PRESS DOWN FIRMLY - 2 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Waypoint Analytical to proceed with the analyses as requested above. Any changes must be submitted in writing to the Waypoint Analytical Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
G. Storm		3-30-20	11:15
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Waypoint Analytical By:	Date	
		3-30-20	13:15

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered X Waypoint Analytical Field Service ☐ Other

COC Group No. 00 30374

Additional Comments:

LAB USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	BRWNFLD	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC X SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

CHAIN OF CUSTODY RECORD

Waypoint ANALYTICAL
449 Springbrook Road • Charlotte, NC 21217
Phone 704/529-6364 • Fax: 704/525-0409

PAGE 2 OF 2 QUOTE # TO ENSURE PROPER BILLING:

Project Name: Ascend Performance
Short Hold Analysis (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: See Page 1
Address:

Client Company Name: HRP Associates
Report To/Contact Name: Dan McDonnell
Reporting Address: 1327 Miller Road, Suite D Greenville, SC 29607
Phone: 864-289-0311 Fax (Yes)(No):
Email Address: daniel.mcdonnell@hrpassociates.com
EDD Type: PDF___ Excel ✓ Other
Site Location Name: Ascend
Site Location Physical Address: Greenwood, SC

Purchase Order No./Billing Reference ASC7005.GW
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY WAYPOINT ANALYTICAL, LLC TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		✓
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IRT-14 Observed 2.1 °C /Corr. 2.2 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC___ FL___ NC___
SC___ OTHER___ N/A___
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES___ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER, OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSIS REQUESTED 8260	ANALYSIS REQUESTED 8260 STM 1,4-Dioxane	REMARKS	ID NO.
GW-17-57'	3-27-20	1255	WT	CG	6	40ML	HCL	X	X		11
GW-37D		1330									12
GW-10D-19'		1400									13
GW-10D-28'		1405									14
GW-10D-37'		1415									15
GW-28D-87'		1445 40									16
GW-28D-98'		1456 45									17
GW-28D-108'		1452 50							X		18
DUP-GW	3-27-20	1452			6			X	X	*Ran out of Bottle Types for 8260 STM Bottles	19
TRIP BLANK	—	—	WT	CG	2	40ML	HCL	X			20

Sampler's Signature: [signature] Sampled By (Print Name): Storm Caldwell Affiliation: HRP

PRESS DOWN FIRMLY - 2 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Waypoint Analytical to proceed with the analyses as requested above. Any changes must be submitted in writing to the Waypoint Analytical Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature) [signature]	Received By: (Signature) [signature]	3-30-20	11:15
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature) [signature]	Received For Waypoint Analytical By: [signature]	Date 3-30-20	13:15

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☒ Waypoint Analytical Field Service ☐ Other
COC Group No. 0030374

Additional Comments:

LAB USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	BRWNFLD	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☒ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

APPENDIX G
Receptor Survey Documents

Adjacent Property Owners

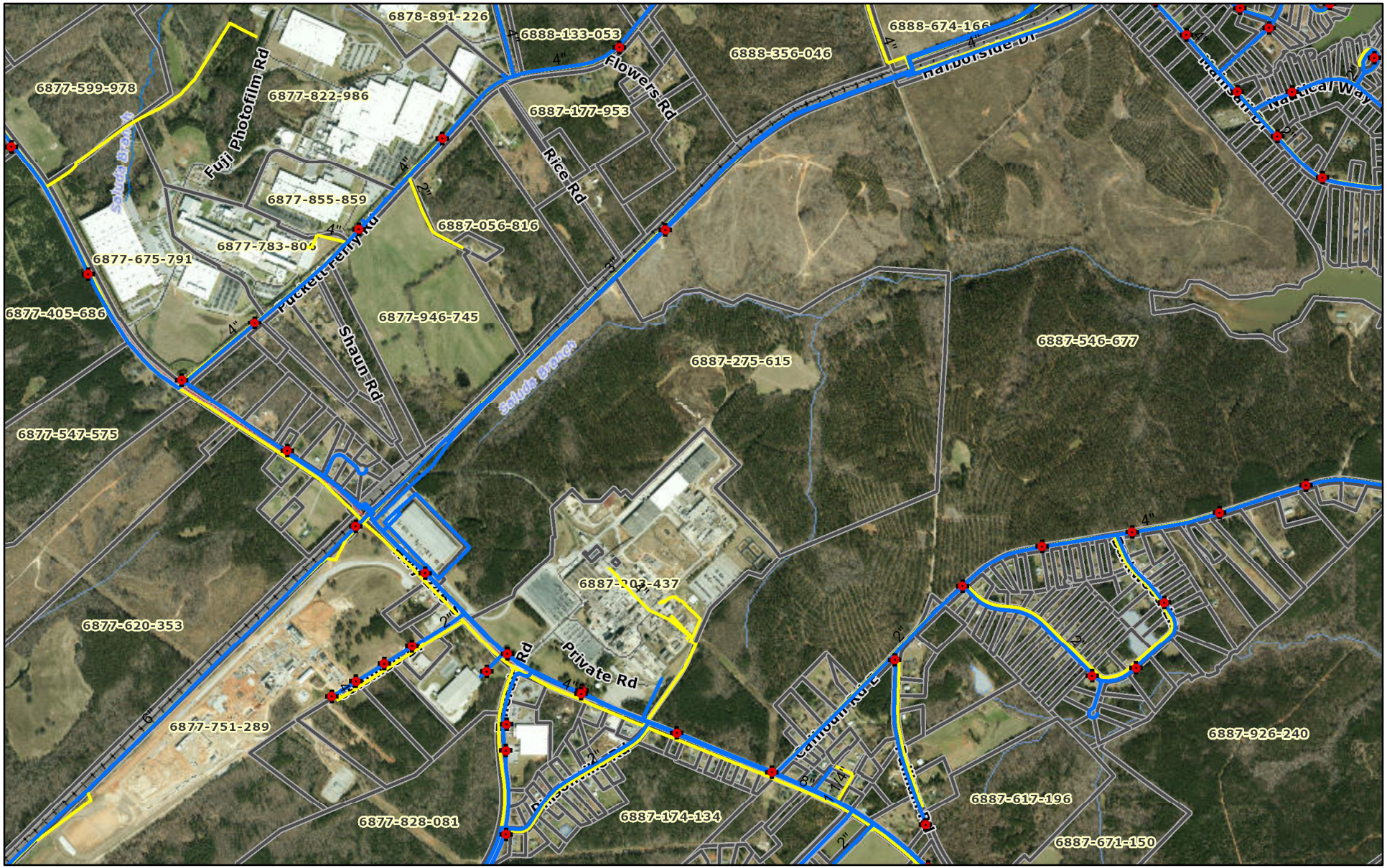
Ascend Performance Materials Operations - Greenwood, South Carolina

Relative Location to Site	Owner	Address	Tax Parcel #	Acreage	Property Use and Activities
Northwest	Carla Duncan Pinson	Puckett Ferry Road	6887-139-823	11.02	Undeveloped, Wooded
	Earl Ray Pinson/Et al. as Trustees	404 Puckett Ferry Road	6887-056-816	48.84	Residential
	P. Childres Buchanan	308 Puckett Ferry Road	6877-946-745	67.46	Residential
	Harold M. Crisp	304 Puckett Ferry Road	6877-916-676	9.697	Residential
	Virginia & Merlin W. Jr. Butler	218 Shaun Road	6877-884-625	8.1	Residential
	Mike & Connie Martin	111 Windfield Court	6877-923-561	0.75	Residential
	Susan M. Davis	110 Windfield Court	6877-911-546	0.76	Residential
	CSX	NA	NA	NA	Railroad
Southwest	Ascend Performance Materials Operations	1401 Highway 246 S	6877-970-489	11.59	Industrial
	Joel A. & Page G. Myers	1216 Highway 246 S	6877-856-509	8.0	Residential
	Patrick W Moore	1410 Highway 246 S	6877-961-412	3.39	Commercial
	Coronaca Volunteer Fire & Rescue	1418 Highway 246 S	6877-984-397	2.74	Fire Station
	Angstrom Real Estate Group LLC	1508 Highway 246 S	687-015-332	17.79	Industrial
	Neighbors United Credit Union	1518 Highway 246 S	6887-085-322	Unkown	Commercial
	Gerald A. & Jacquelyn Burton	1606 Highway 246 S	6887-121-294	Uknown	Automotive Junk Yard
	Robert S. Watson & Teresa L. Wiley	1610 Highway 246 S	6887-157-295	1.0	Commercial
	Anthony Joel Hayes	1612 Highway 246 S	6887-157-279	1.0	Residential
	Ashleigh LLC	1628 Highway 246 S	6887-179-286 & 6887-198-278	2.09	Gas Station
Southeast & Northeast	Donna L. Garber	1706 Highway 246 S	6887-221-268	Unkown	Residential
	Ascend Performance Materials Operations	1701 Highway 246 S	6887-546-677	750.471	Undeveloped, Wooded

NOTES:

- 2020 parcel information provided by the Greenwood County GIS system (July 2, 2020).

Utility Line Map



May 4, 2017

1:18,056

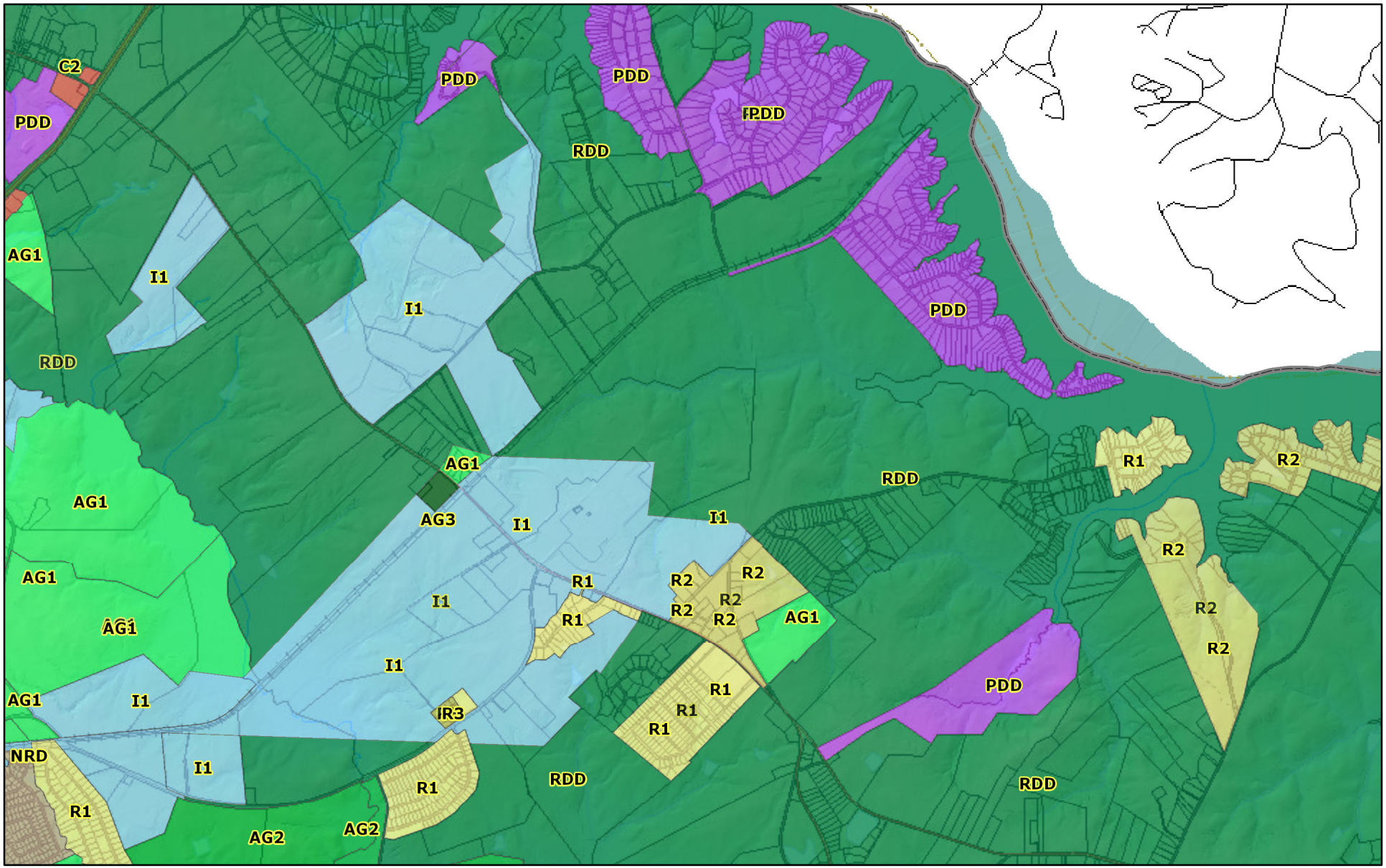
0 800 1,600 3,200 ft

0 250 500 1,000 m

None
sdf

Disclaimer: Map and parcel data are believed to be accurate, but accuracy is not guaranteed. This is not a legal document and should not be substituted for a title search,appraisal, survey, or for zoning verification.

Zoning Map



May 16, 2017

1:36,112

0 0.3 0.6 1.2 mi

0 0.5 1 2 km

None
sdf

Disclaimer: Map and parcel data are believed to be accurate, but accuracy is not guaranteed. This is not a legal document and should not be substituted for a title search,appraisal, survey, or for zoning verification.