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February 23, 2017

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New York State Department of Environmental Conservation
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Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7015

Subject: AST Decommissioning Report

Ciba-Geigy/Hercules Site EPA ID: NYD002069748

Site No.: 557011

Dear Mr. Jankauskas:

On behalf of Hercules Incorporated, a wholly-owned subsidiary of Ashland, Inc. (Ashland) and BASF Corporation, Antea® Group is pleased to submit the enclosed AST Decommissioning Report for the Pretreatment Plant (PTP) Solid Waste Management Unit (SWMU) at the Ciba-Geigy/Hercules Site, located at 89 Lower Warren Street, Queensbury, New York. Activities conducted at the PTP were in accordance with the requirements specified in the New York State Department of Environmental Conservation Part 373 Hazardous Waste Permit No. 5-5234-00008/00096, dated March 2015 as well as the NYSDEC-approved Work Plan dated September 23, 2015.

The attached final report addresses the NSYDEC comments sent on October 21, 2016, with the exception of comment number 4 regarding sampling of locations noted in Section 7, bullets 1 and 3. A sampling plan for these locations will be included as part of the tank demolition plan.

If you need a hardcopy of this report, please notify us and we will prepare and submit the required number of reports in hardcopy format. Should you have any questions or require additional information please feel free to contact James Vondracek (Ashland, Inc.), Stephen Havlik (BASF) or myself at 914-495-9937 or Christopher.Meyer@anteagroup.com.

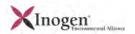
Sincerely,

Christopher Meyer Senior Project Manager

Antea Group

cc: Mr. James Vondracek – Ashland

Mr. Stephen Havlik – BASF Mr. John Swartwout - NYSDEC





# **AST Decommissioning Report**

Former CIBA-GEIGY/HERCULES Plant Site 89 Lower Warren Street, Queensbury, NY EPA ID: NYD002069748

Antea Group Project No. GLENSFA151 February 23, 2017

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#### 1.0 INTRODUCTION

On behalf of Hercules Incorporated (Hercules), Antea Group has prepared this Tank Decommissioning Report for the former Ciba Geigy Corporation (CIBA) pigments manufacturing facility located at 89 Lower Warren Street in Queensbury, NY (the Site). The Site was purchased by CIBA from Hercules in 1979, and was historically operated as a pigments manufacturing facility until 1989. Since that time, Ashland Inc. (Ashland) acquired Hercules and BASF Corporation (BASF) acquired CIBA. Site environmental activities are conducted under a Hazardous Waste Management (HWM) Post Closure Permit issued by the New York State Department of Environmental Conservation (NYSDEC; Site No. 557011, Permit no. 5-5234-00008/00096, EPA ID No. NYD002069748). Hercules and CIBA are the Site Permittees and share responsibility for on-going environmental activities.

As a matter of background, the New York State Department of Environmental Conservation (NYSDEC) conducted an annual Resource Conservation and Recovery Act (RCRA) inspection at the Site on July 17, 2014. During the inspection, three vessels were observed at the Pretreatment Plant (PTP) area of the site, including one aboveground storage tank (AST) and two skid-mounted vessels. Figure 1 shows the location of the PTP. The vessels consisted of AST T-110 (T-110), which had an operating capacity of 500,000 gallons, and two vessels (reportedly sand filters with approximately 8,000 pounds capacity each), both attached to the same skid-mounted support structure. The locations of the tank and sand filter vessels are shown on Figure 2. A historical process summary for the tank, vessels, and other equipment is presented in Appendix A.

According to available documentation, the tank and vessels were historically used for:

- storage and/or treatment of facility process water during historical plant operation;
- treatment of water from interim remedial measures (IRMs);
- for management of construction water and storm water generated during Corrective Measures Implementation (CMI), and
- collection of water generated from operation of the groundwater extraction system (GWES) prior to discharge under permit to the City of Glens Falls Sewer System.

Additional information pertaining to historical usage of the PTP was presented in the NYSDEC approved Work Plan, dated September 23, 2015.

In July 2014, the NYSDEC inquired as to whether the AST and skid-mounted vessels had been properly cleaned after the Groundwater Extraction System (GWES) Pretreatment Process was shut-down in 2002, and if so, whether or not documentation/certification could be provided confirming the cleaning was completed in accordance with



applicable NYSDEC regulations. A review of available project records was conducted and summary information was provided to NYSDEC; however, specific information which directly detailed/certified the final cleaning of the AST and vessels could not be located.

A Work Plan for the AST decommissioning was prepared in accordance with the requirements of the Site Permit and applicable NYSDEC Division of Environmental Remediation regulations, including "DER-10 Technical Guidance for Site Investigation and Remediation," and applicable Division of Environmental Remediation regulations guidance documents and procedures which specifically include NYCRR Part 373 regulations for Hazardous Waste Management Facilities. The Work Plan, dated September 23, 2015, was sent to the NYSDEC and was approved by NYSDEC in a letter dated September 30, 2015 (reference Appendix B).

AST decommissioning work began at the PTP on October 12, 2015. A description of the work completed and results of confirmation sampling to document cleaning and decommissioning activities are discussed herein. Photographs of the tank, vessels, and equipment are provided in Appendix C.

#### 2.0 WORK PERFORMED

Per the Work Plan, AST decommissioning activities at the PTP Solid Waste Management Unit (SWMU) were completed between October 12, 2015 and December 2, 2015. Project oversight was provided by Antea Group (Site Manager). Project work was completed by Op-Tech (subcontractors), who provided cleaning and removal services for the tank, vessels and ancillary pipe work. A summary of the work is as follows. Note that the details related to sample collection and waste determination are described in Sections 3 and 4.

- Work began October 12, 2015 when subcontractors mobilized to the site and staged equipment in dedicated work areas determined by the Antea Group Site Manager. Before work activity began, the scope of work, health and safety procedures, and community air monitoring plans were reviewed with subcontractors.
- The first step in cleaning T-110 was the removal of the standing water that had accumulated in the tank. In order to drain the water, a hole was cut through the tank wall near above the water line near the access port door and the standing water was pumped out of the tank using a vacuum truck. The water was pumped through a bag filter equipped with a 50-micron sock filter, into Frac tank #1 and Frac tank #3 (note that Frac tank #2 was used later in the process to hold wash water from pressure washing). The frac tanks are 21,000 gallon closed-top stainless steel tanks. Once the standing water was removed, the tank contents were allowed to settle overnight. This free-liquid removal process was conducted over a four day period and a total of approximately 38,000 gallons of water were pumped from T-110.



- The solid environmental media accumulations that remained were later determined by the NYSDEC to be bio-accumulation that had occurred over time (additional detail regarding this determination can be found in the "Contained-In" Determination Request letter dated November 3, 2015 are provided in section 4.4.3 and presented in Appendix B). The remaining environmental media was then removed from T-110 using a vacuum truck. The material was placed in two 25-yard roll-off containers (Roll-off #1 and Roll-off #2), which were deployed on poly-sheeting and lined on the interior with fabric filter liners.
- An estimated 32 tons of environmental media was removed from T-110 and transferred to the two roll-offs containers for dewatering and solidification. Due to the saturation of the environmental media following initial removal from T-110, the environmental media was left to sit on the filter liner in the roll-offs to dewater as much as possible before solidification and transport. As the environmental media was dewatering, water accumulated in the bottom of the roll-offs, and was subsequently pumped into Frac tank #2. In order to minimize turbidity during the transfer of the accumulated water, a 50-micron filter sock was placed over the end of the transfer hose, as well as in the pump. As a result, any water that was pumped from the roll-offs and into Frac #2 was double-filtered. Water generated during subsequent cleaning events was also emptied into Frac #2.
- After all water and environmental media had been removed from T-110, subcontractors began the initial
  wash. The interior tank wall was found to be covered in a dark brown build-up. In order for the build-up to
  wash off down to the white undercoating, 3,000 PSI pressure washers had to be placed close to the interior
  walls, often less than one-inch from the wall. Washing was conducted until wash water flowed clear.
- Due to the large size of T-110, the tank decontamination was conducted in separate steps. A general summary of the steps are as follows:
  - An initial wash was conducted to remove the outermost layer of material that had collected on the tank walls (build-up believed to be a combination of protective coating overlain by layers of historic process water accumulation). Following the initial wash, the tank walls and floor were divided into quadrants (NE, NW, SE, and SW) for more focused cleaning. Surfaces were considered clean when visual observations by the Site Manager indicated no loose material remained and removable discoloration was no longer observed.
  - A second, more in-depth cleaning took place quadrant-by-quadrant, where any residual build-up left from the initial wash was pressure washed clean. Based upon visual inspection and review of preliminary rinsate results, some areas were re-addressed with additional washing.
  - During the initial wash, the build-up/coating of the walls would break off in chips of various sizes.
     These chips were periodically collected in 55-gallon steel drums, as necessary, to keep the floor free of debris. Any residual build-up remaining on the wall was washed again, until the white



- undercoating was visible, or, until no material was chipping off with the pressure washer. Any water generated from the cleaning was transferred into the frac tanks.
- O As described in the approved Work Plan, following a preliminary 'clean' determination, the AST was triple rinsed using pressure washers on a mist setting, detailed below (see section 3.0). Decontamination water and residual waste that accumulated at the bottom of T-110 during the cleanings was removed using a pump or tanker truck, and transferred to the Frac tanks (liquids only) or 55-gallon drums (solids only).
- Two ancillary pipes located on the tank interior in the northwest quadrant were removed prior to the second round of cleaning so that the pressure washers could access the area of the wall underneath the piping, where build-up appeared to have accumulated in heavier amounts compared to other areas. These pipes were adjacent to the large 16-inch influent pipe located near the top of T-110. The two pipes were decontaminated in the tank, then removed and placed in the PTP building, wrapped in plastic, and staged on-site for disposal during demolition activities.
- The floor quadrants were cleaned following the same procedure outlined above, with the exception of the pressure washers. A 10,000 PSI pressure washer was utilized during floor cleaning activities in order to improve the efficiency of the cleaning process. Debris was squeegeed and drummed at the end of each quadrant cleaning to ensure contaminated chips were not falling into cleaned quadrants. Water from floor cleaning was vacuumed out daily and emptied into frac tanks.
- Upon opening the sand filter vessels (Vessel 1 and Vessel 2), approximately 1,000 gallons of water was observed in each of the vessels and was drained into Frac tank #1. After the initial draining, the vessels were decontaminated. An initial wash was conducted using a 3,000 PSI pressure washer. The pressure washing was conducted from the outside of the vessels, with pressure washer attachments reaching the interior through the opening ports on the side and top of the vessels. No change in color of the walls resulted from pressure washing. Washing of the vessels continued until wash water flowed clear. Water from the initial and second cleaning of each vessel was pumped through a filter before being emptied into Frac #1. Confirmation rinsate samples were collected on November 4, 2015 following a visual determination of cleanliness. Surfaces were considered clean when visual observations indicated loose material was no longer observed.
- Two 6-inch exterior pipes leading into T-110 from inside the PTP building were blanked, and influent piping located at the top of T-110 was capped. Vessel 1 and Vessel 2 piping was blanked in a total of six locations (two locations on top of the vessels and four outlet pipes near the bottom of the vessels).
- Following decontamination of T-110 and completion of line blanking and pipe capping, twelve holes of 1" diameter were drilled into the tank side walls, located approximately ½" above the base of the tank. These



holes were drilled to address concerns regarding precipitation accumulation in the tank following decontamination.

- Samples were handled by field and laboratory personnel in a manner which allowed for custody tracking and maintained the validity of the samples. Sample custody procedures were presented in the Quality Assurance Project Plan (QAPP), included in the Work Plan. Details of the QAPP are outlined in Section 6.0 below. All sampling equipment, field measuring equipment and heavy equipment was decontaminated according to the decontamination procedures presented in the Work Plan.
- Equipment Decontamination A temporary decontamination pad was constructed on-site for equipment decontamination. General cleanup of equipment utilized to handle contaminated material was performed at the temporary equipment decontamination pad located directly outside the work zone. The pad was bermed with wooden 4x4s, and poly-sheeting was laid down during decontamination activities. Gross removal of bulk debris from tank cleaning equipment was initially performed by brushing or scraping, followed by thorough decontamination with a pressure washer/steam cleaner. Small tools and equipment that could not be safely pressure washed were hand washed with a warm detergent solution within the equipment decontamination pad. Sampling equipment was properly discarded upon completion of the sampling events.

#### 3.0 CONFIRMATION RINSATE

Due to the large surface area of the interior wall of T-110, each wall quadrant was divided into two sections for sampling purposes (NE-1, NE-2, NW-1, NW-2, SE-1, SE-2, SW-1, SW-2), as shown on Figure 2. These sections were approximately 20-25 feet wide. The floor was divided into quadrants (NW, NE, SW, and SE). Confirmatory rinsate samples were collected and analyzed after a quadrant was determined to be visually clean.

#### 3.1 Rinsate Procedures

#### 3.1.1 Wall Rinsate

As detailed in the approved Work Plan and Field Sampling Plan (FSP), following the initial and second washes, a triple rinse of each quadrant was completed by subcontractors prior to rinsate wash/sampling. The decontaminated areas were rinsed three times then allowed to air dry. Once the area had sufficiently dried, potable rinse water was sprayed on the top of the wall at low pressure for a minimum period of ten minutes, allowing for complete wall saturation. Rinse water was allowed to flow down the wall and collected into a temporary containment area. The temporary containment area was constructed using clean poly-sheeting taped at the edges to the wall, with sand bags wrapped in poly-sheeting used as a berm to ensure water pooled in one area. The wall surface was sprayed in a manner which allowed the entire area being sampled to have contact with the rinsate water. Once the period of



ten minutes had elapsed and all rinse water had pooled below, rinsate samples were collected from the water that had accumulated in the temporary containment area. Rinsate samples were collected directly into the appropriate sample containers (if unpreserved) or in the case of preserved bottles, collected and transferred from decontaminated, unpreserved laboratory bottles into the appropriate sample containers. Sample containers were capped immediately after filling and placed into a chilled cooler for transport to the laboratory. All samples were properly stored on ice, and transported to the laboratory under proper chain-of-custody (Appendix D). Sample custody procedures listed in the FSP sent as part of the Work Plan and were adhered to by the field staff during sample collection. Rinsate analytical data results are presented below and in Table 1.

#### 3.1.2 Floor Rinsate

Following the initial and second washes, a triple rinse of each floor quadrant was completed by subcontractors prior to rinsate washing. The decontaminated areas were rinsed three times during the triple rinse, then allowed to air dry. Once the area had sufficiently dried, a temporary bermed area made of sand bags covered in poly sheeting was constructed, creating a sectioned off quadrant for rinse water to collect in. In order to produce a representative sample, water was sprayed at a low pressure over the floor sample area for a period of ten to fifteen minutes. Water was allowed to pool within the contained area, where it was collected directly into the appropriate sample containers (if unpreserved) or collected with decontaminated, unpreserved laboratory bottles and transferred into appropriate containers. Sample containers were capped immediately after filling and places into a chilled cooler for transport to the laboratory. All samples were properly stored on ice and transported to the laboratory under proper chain-of-custody (Appendix D). Sample custody procedures listed in the FSP were included as part of the Work Plan and were adhered to by the field staff during sample collection. Rinsate analytical data results are presented below and in Table 1.

#### 3.1.3 Sand Filter Vessel Rinsate

A triple rinse was completed on the interior of sand filter vessels 1 and 2 and the interiors allowed to air dry. Following air drying, the interiors of the vessels were rinsed with a low pressure mist, allowing water to pool on the bottom of the vessels. Rinsate water was collected directly into the appropriate sample containers (if unpreserved) or collected with decontaminated, unpreserved laboratory bottles and transferred into appropriate containers (if preserved). Sample containers were capped immediately after filling and placed into a chilled cooler for transport to the laboratory. All samples were properly stored on ice, and transported to the laboratory under proper chain-of-custody (Appendix D). Sample custody procedures listed in the FSP were included as part of the Work Plan and were adhered to by the field staff during sample collection. Duplicate and matrix spike samples were collected from the Vessel 2 rinsate sampling. Rinsate analytical data results are presented below and in Table 1.



## 3.2 Confirmation Rinsate Analytical Results

NYSDEC does not have published performance standards for target levels of contaminants of concern (COCs) that can be used to demonstrate successful cleaning of the tank systems. Site COCs include RCRA metals, hexavalent chromium, vanadium and cyanide. Therefore, the results of confirmatory rinse water samples were compared to Part 703 Class GA groundwater quality standards to assess the effectiveness of cleaning of the AST. If a Class GA standard did not exist, a Class A SW standard was used for comparison. Additional analytes that were detected in liquid and environmental media waste characterization samples were evaluated against their specific Class GA standard, if one exists.

Analyte	Performance Standard (ug/L)
Arsenic	25
Barium	1,000
Cadmium	5
Chromium	50
Lead	25
Mercury	0.7
Selenium	10
Silver	50
Hexavalent Chromium	50
Vanadium	14
Cyanide	200

The rinsate samples were analyzed for site COCs plus any analytes that were detected in liquid and environmental media waste characterization samples (detailed in Section 4.0 and in Appendix E). Additional analytes detected in the PTP AST liquid waste sample collected on May 20, 2015 included metals (aluminum, antimony, beryllium, calcium, cobalt, copper, iron, magnesium, manganese, nickel, potassium, sodium and zinc), which were included in the rinsate sample analyte list.

Confirmatory rinsate samples were analyzed using methods listed in ALS Environmental Analytical Methods table below by ALS Environmental, which is a NYSDOH ELAP certified analytical laboratory. Laboratory analytical procedures adhered to the latest version of the New York State (NYS) Analytical Service Protocol (ASP) and/or to United States Environmental Protection Agency (USEPA) SW-846 methodologies as appropriate.



ALS Environmental Analytical Methods			
General Chemistry Parameters			
Ammonia as Nitrogen, undistilled	ASTM D6919-09		
Biological Oxygen Demand	SM 5210B		
Chemical Oxygen Demand	410.4		
Chromium, Hexavalent	7196A		
Cyanide, Total	9012B		
Flash Point	ASTM D92-05a		
Free Liquid	9095В		
рН	SM 4500-H+B/9045D		
Phenolics, Total Recoverable	420.4 Modified/9066 Modified*		
Solids, Total Suspended (TSS)	SM 2540D		
Total Solids	ALS SOP		
Sulfide	SM 4500 S2-F		
Sulfide, Reactive	9034 Modified		
Inorganic Parameters			
Metals	6010C		
Mercury	7470A		
VOCs/SVOCs			
VOCs	8260C		
SVOCs	8270D		

Rinsate analytical data are presented in Table 1, and the laboratory analytical reports are provided in Appendix D. Below is an abbreviated table listing on those analyte concentrations detected above comparison criteria (Confirmation Rinsate Sample Exceedances). As data was reported from the lab, it was sent to the NYSDEC for approval for preliminary clean benchmarks. As stated earlier, NYSDEC does not have published performance standards for target levels of COCs that can be used to demonstrate successful cleaning of tank systems. Therefore the comparison to Part 703 Class GA groundwater quality standards was to provide a frame of reference for NYSDEC review. All rinsate results were approved by NYSDEC in an e-mail on December 14, 2015, prior to completion of cleaning activities.



Confirmation Rinsate Sample Exceedances			
Sample ID	Analyte Exceeding Comparison Criteria	NYSDEC Groundwater Standard (ug/L)	Exceedance Concentration (ug/L)
NE-1	Iron	300	771
	Chromium	50	97
Vessel 1	Copper	200	231
	Iron	300	7,740
	Chromium	50	96
Vessel 2	Iron	300	1,010
	Chromium, hexavalent	50	70
NE 2	Iron	300	640
NE-2	Sodium	20,000	33,100
NIVA/ 4	Iron	300	430
NW-1	Sodium	20,000	33,800
NW-2	Sodium 20,000		33,100
SE-1	Iron	300	600
SE-2	Iron	300	610
3E-2	Sodium	20,000	20,100
SW-1	Iron	300	930
SW-2	Iron	300	540
NW Floor*	Lead	25	70
	Aluminum	100**	120
SW Floor	Iron	300	660
	Lead	25	81
SE Floor	Iron	300	820

<sup>\*</sup>NW Floor sample was analyzed outside of the 24-hour hold time for hexavalent chromium, therefore, NW Floor – R was collected the day following initial rinsate sample collection for NW Floor to analyze for hexavalent chromium. Hexavalent chromium was not detected in sample NW Floor – R.

<sup>\*\*</sup>Surface Water Standard



## 4.0 WASTE – CHARACTERIZATION, SAMPLING, AND DISPOSAL

#### 4.1 General

During the decommissioning activities, several streams of waste were generated.

- Waste water from dewatering;
- Wash water from cleaning;
- Solid waste from removal of environmental media;
- Hazardous waste from chips and settled sediment.

All waste generated from decommissioning activities was containerized, characterized and disposed of at a properly permitted disposal facility that was approved by the Permittees and NYSDEC. Samples were collected from each source and laboratory tests for characterization were conducted based on requirements of the accepting facilities. A total of eight samples were collected for waste classification and disposal purposes. An outline of sample collection procedures and analytical data is presented in sections 4.2, 4.3, and 4.4. Laboratory analytical procedures adhered to the latest version of the NYS ASP and/or to USEPA SW-846 methodologies as appropriate.

#### 4.2 Waste Water

## **Liquid Characterization Sample**

On May 20, 2015, prior to initiation of decommissioning activities, a sample (referred to as PTP AST) was collected from liquid contained in T-110 to evaluate management and disposal options. This data was provided to NYSDEC for the contained-in determination, as well as the waste water treatment facility approval. A summary of data can be found in Table 2 and Table 3 and complete laboratory data packages are provided in Appendix E. The sample was analyzed using methods listed in the Test America Analytical Methods table below by Test America, which is a NYSDOH ELAP certified analytical laboratory.

Test America Analytical Methods		
General Chemistry Parameters		
Ammonia as Nitrogen, undistilled	EPA Method 350.1	
Biological Oxygen Demand	SM 5210B	
Chemical Oxygen Demand	SM 5220D	
Chromium, Hexavalent	7196A	
Corrosivity	SM 4500 H+B	
Cyanide, Total	9012B	
Phenolics, Total Recoverable	EPA Method 420.1	
Solids, Total Suspended (TSS)	SM 2540D	
Sulfide	SM 4500 S2-F	
Ignitability	1010A	



Test America Analytical Methods				
Inorganic Parameters	Inorganic Parameters			
Metals 6010C				
Mercury	7470A			
VOCs/SVOCs				
VOCs	8260B			
SVOCs	8270D			

Laboratory analytical procedures adhered to the latest version of the NYS ASP and/or to USEPA SW-846 methodologies as appropriate.

#### 4.2.1 Waste and Wash Water Sample Collection Procedure

In October 2015, liquid from each of the frac tanks was sampled for analytes that are consistent with the Site's wastewater permit (City of Glens Falls Industrial Wastewater Discharge Permit No. 002 (E)). Liquids in the frac tanks consisted of water from the initial dewatering of the tank, wash water collected during cleaning, and wash water used during decontamination activities. The following is an overview of procedures used to collect water samples from Frac tank #1 and Frac tank #3 (FRAC-1 and FRAC-3, respectively) on October 14, 2015 and Frac #2 (FRAC-2) on October 29, 2015 for waste characterization purposes:

- A dedicated, disposable bailer was attached to a dedicated nylon rope and lowered into each frac tank
  for sample collection purposes. Water collected in the bailers was transferred to the appropriate, labsupplied sampling containers. Care was taken not to agitate the sample when transferring it from the
  bailer to the laboratory-supplied vials.
- Care was taken to not overfill the bottles during sample collection thereby ensuring proper sample preservation. Sample containers were capped immediately after filling and placed into a chilled cooler for transport to the laboratory. All samples were properly preserved, stored on ice and transported to the laboratory under proper chain-of-custody (Appendix E).

As with the May 20th sample (PTP AST), this data was provided to NYSDEC for the contained-in determination, as well as the waste water treatment facility approval.

#### 4.2.2 Waste and Wash Water Analytical Results

Laboratory analytical results are summarized in Table 2 and Table 3 and complete laboratory data packages are provided in Appendix E. Samples were analyzed using methods listed in the ALS Environmental Analytical Methods table by ALS Environmental. Table 2 compares laboratory analytical results for samples PTP AST, FRAC-1, FRAC-2 and



FRAC-3 against the POTW Permit Effluent Limitations, listed in the City of Glens Falls Industrial Wastewater Discharge Permit No. 002 (E). Table 3 compares laboratory analytical results for PTP AST, FRAC-1, FRAC-2 and FRAC-3 against NYSDEC Class GA Groundwater Standards found in TOGS 1.1.1. A review of the analytical data is presented in the Liquid Waste Samples table below:

Liquid Waste Samples				
Sample ID Relative Standard		Purpose of Sample	Analytes in Exceedance	
			Aluminum	
			Antimony	
			Barium	
	ANYCOS CI CA		Cadmium	
	NYSDEC Class GA Groundwater Standards	Contained-in/non-hazardous determination	Chromium	
	Groundwater Standards	determination	Iron	
PTP-AST			Lead	
			Mercury	
			Nickel	
			Calcium	
	POTW Permit Effluent	DOTW approval to accept water	Iron	
	Limitations	POTW approval to accept water	Lead	
			Zinc	
	NYSDEC Class GA	Contained-in/non-hazardous determination	Iron	
FRAC-1	Groundwater Standards		Phenolics, total recoverable	
	POTW Permit Effluent Limitations	POTW approval to accept water	None	
			Acetone	
			2-Butanone	
			Dimethyl Phthalate	
			Aluminum	
	NYSDEC Class GA	Contained-in/non-hazardous	Cadmium	
	Groundwater Standards	determination	Chromium	
FRAC-2			Iron	
			Lead	
			Phenolics, total recoverable	
			Cyanide	
	POTW Permit Effluent Limitations	POTW approval to accept water	None	



Liquid Waste Samples				
	NYSDEC Class GA Groundwater Standards C-3	Contained-in/non-hazardous determination	Iron	
FRAC-3			Phenolics, total recoverable	
	POTW Permit Effluent Limitations	POTW approval to accept water	None	

Based upon the results of the representative samples described above, waste water from FRAC-1 and FRAC-3 was approved for off-site transport and treatment by the NYSDEC on October 23, 2015 and the POTW on October 26, 2015. Based upon the approvals for FRAC-1 and FRAC-3, and that FRAC-2 wastewater was generated from the same waste stream, the characterization that led to the approval of FRAC-1 and FRAC-3 wastewater was applied to disposal of FRAC-2 wastewater. In the NYSDEC comments dated October 21, 2016, the NYSDEC requested a contained-in request be submitted for FRAC-2. Analytical data and a contained-in request for the waste water in FRAC-2 was sent to the NYSDEC on November 22, 2016 and the NYSDEC approved the request on December 1, 2016.

#### 4.3 Solid Waste

Solid waste samples were collected throughout the decontamination process for waste characterization purposes. Details regarding waste disposal can be found in Section 4.4. Data was provided to disposal facilities and the NYSDEC for approval prior to being removed from the Site. Laboratory analytical results for solid waste are summarized in Table 4 and complete laboratory data packages are provided in Appendix E.

#### 4.3.1 Environmental Media Waste Sample Collection Procedure

Environmental media that was removed from T-110 was sampled on October 15, 2015 (WC-1). The following procedures were utilized to collect representative environmental media samples (following removal of standing water) for waste characterization purposes:

- WC-1 was a composite sample collected from ten locations around the tank floor, at varying depths, using small hand tools. The environmental media was conveyed utilizing a decontaminated stainless steel trowel and placed into a new, disposable 50-micron filter bag. The bag was hung over a clean 5-gallon bucket to allow for the environmental media to dewater.
- The sample was visually inspected for any evidence of potential contamination. After dewatering, the sample was screened for VOCs with a photoionization detector (PID). No VOCs were detected during the screening. The environmental media was then emptied into a decontaminated stainless steel bowl and homogenized using the method detailed in the FSP. The entirety of the sample was mixed one final time and laboratory samples were collected after homogenization. Environmental media samples did not require preservation except for maintaining the media at approximately 4°C.



• Sample containers were capped immediately after filling and placed into a chilled cooler for transport to the laboratory. All samples were properly preserved, stored on ice, and transported to the laboratory under proper chain of custody (Appendix E).

#### 4.3.2 Solid Waste Analytical Results

Environmental media that was removed from T-110 was sampled on October 15, 2015 (WC-1). Samples from Roll-off #1 (BOX-1) and Roll-off #2 (BOX-2) were collected for paint filter analysis on November 13, 2015, at the request of High Acres Landfill, for disposal purposes. On October 30, 2015, a waste characterization sample (CHIPS-1) was collected from one of the 55-gallon steel collection drums containing chips from the cleaning of the interior walls of T-110. Laboratory analytical results for solid waste are summarized in Table 4 and complete laboratory data packages are provided in Appendix E. A review of the analytical data is presented in the Solid Waste Samples table below. No TCLP VOCs or metals exceeded the relative standard.

Solid Waste Samples					
Sample ID	Relative Standard	Purpose of Sample	Analytes in Exceedance	Resolution	
Maximum Concentration of Contaminants (MCC) for the Toxicity Characteristic, based on 40 CFR 261.24 - TCLP VOCs and Metals Only		Landfill Approval	None	NYSDEC approval on 11/3/2015; High Acres Landfill approved waste profile on 01/21/2016	
CHIPS-1	Maximum Concentration of Contaminants (MCC) for the Toxicity Characteristic, based on 40 CFR 261.24 - TCLP VOCs and Metals Only	Waste determination (hazardous)	None	NYSDEC Waste Determination on 12/17/2015; US Ecology approval of waste on 2/15/2016	
BOX-1	BOX-1 None Landfill Approval (Paint Filte and Total Solids)		None	High Acres Landfill approved waste profile on 01/21/2016	
BOX-2 None		Landfill Approval (Paint Filter and Total Solids)	None	High Acres Landfill approved waste profile on 01/21/2016	



#### 4.4 Waste Management

#### 4.4.1 Decontamination Waste

Decontamination waste was segregated by physical state (e.g. solid or liquid) and properly containerized. The containers were sealed at the end of each workday and properly labeled. Bulk debris from the cleaning of the excavator bucket following the mixing of lime ash into Roll-offs #1 and #2 was scraped into a containment area, and any debris generated added back into Roll-off #1. The bucket was rinsed with a pressure washing over the roll-off then wrapped in clean plastic. Non-hazardous personal protective equipment (PPE) used during cleaning was placed in contractor garbage bags, removed from site, and disposed of by the subcontractors.

At any point in which the vacuum truck was utilized to move a different media (i.e. wastewater from frac tanks vs. cleaning water or chips generated during AST cleanings) the vacuum truck would be decontaminated. Wash water from decontamination was drummed and water was allowed to settle. Water from drums was transferred to the frac tanks, while sediments were containerized in 55-gallon drums for disposal.

#### 4.4.2 Liquid Waste Disposal

Prior to discharging wastewater to the onsite Effluent Pumping Station (EPS), the NYSDEC reviewed the sample data in order to make a "contained-in" determination for the representative samples outlined in the Liquid Waste Samples table. After review, the NYSDEC indicated in a letter dated October 23, 2015 that the water met the "contained-in" groundwater action levels and Land Disposal Restriction concentrations. Furthermore, the NYSDEC indicated that the water was not considered hazardous waste, thus, allowing it to be disposed of at the Glens Falls POTW, after being compared to the Industrial Wastewater Permit No. 002E limits. On October 26, 2015, the Glens Falls Waste Water Treatment Plant gave approval for wastewater from frac tanks to be sent to the POTW via the EPS. In an attempt to minimize turbidity of wastewater being sent to the POTW, water was pumped from the frac tanks through a pump equipped with a sock filter and into the vacuum truck. Water transported to the EPS was emptied directly into the settling tank located at the Main Plant Site, which discharged to the POTW with daily flow via the dedicated pipeline.

A summarization of the basic steps of the emptying of frac tanks were as follows:

- The top hatch cover of frac tank was opened and the hose from the vacuum truck was placed into the frac tank to transfer water;
- Transport and transfer/disposal of wastewater to site EPS via vacuum truck with a 3,200 gallon tank capacity
  (approximately 3,200 gallons per load until daily maximum limit of 12,000 gallons, allowed by Glens Falls
  POTW, was reached, or less depending on daily work);
- Once frac tanks were empty, any residual materials were emptied into 55-gallon drums for later disposal.



Throughout the entire decommissioning process, approximately 105,000 gallons of water from initial dewatering and subsequent cleanings was discharged to the POTW via the EPS (manifests provided in Appendix F).

#### 4.4.3 Environmental Media Solidification

Before environmental media material could be disposed of, the contents of Roll-off #1 and Roll-off #2 needed to be solidified to more than 20% solids based on High Acres Landfill requirements. The material was solidified using dolomitic limestone dust. Six sacks (2,500 pounds each) were added to each roll-off bin and mixed with a mini-excavator until the environmental media held a solid consistency. Based on the volume of limestone dust used and the final total volume of environmental media waste in the roll-off bins, it was estimated for each bin that 60% of the material was environmental media and 40% limestone dust.

At the request of High Acres Landfill, final post solidification total solids samples were collected from the roll-offs (referred to as sample BOX-1 and BOX-2) on December 28, 2015. A review of the analytical data indicated BOX-1 held a total solids percentage of 76.8% while BOX-2 held a total solids percentage of 73.7%.

#### 4.4.4 Solid Waste Disposal

Following the cleaning of environmental media from T-110, and subsequent sampling, it was determined the material was not process waste remaining from previous tank use. The NYSDEC issued a "contained-in" determination, sent on November 3, 2015, stating the material was a result of the breakdown and decomposition of leaves and other organic matter that accumulated over time as a result of the AST being an open-top tank. The NYSDEC reviewed the WC-1 data, and it was determined the environmental media did not have to be managed as a hazardous waste because there were no hazardous constituents exceeding the "contained-in" criteria and the waste did not exhibit any hazardous characteristics. This determination by the NYSDEC along with the laboratory data, was reviewed by Waste Management, which approved the waste profile for the roll-off containers on January 21, 2016 (see Appendix B). On February 6, 2016, 27 tons of material contained within the roll-off containers was transported to Waste Management's High Acres Landfill for disposal. An additional eight 55-gallon cardboard/fiber drums of environmental media collected during the decontamination of the roll-off bins was also sent to High Acres Landfill for disposal on April 27, 2016 (manifests provided in Appendix F).

#### 4.4.5 Hazardous Waste Disposal

Following the cleaning of T-110 interior surfaces, and subsequent waste profile sampling of the chips, the NYSDEC issued a determination in regards to the chip material. In a letter received on December 17, 2015, the NYSDEC stated the chip material was not considered an environmental media, and thus a contained-in determination could not be



provided. However, it was the NYSDEC's opinion that based upon the results of the waste profile samples and T-110's historical use to contain materials that were K listed wastes, the chip material generated during the cleaning should be treated and handled as a hazardous waste. This determination by the NYSDEC, along with the laboratory data, was reviewed by US Ecology of Livonia, Michigan, which approved the waste profile for the chip material on February 15, 2015 under Michigan Disposal approval code B160147MDI. A total of seven drums containing the chip material were transported offsite to US Ecology's Michigan Disposal Waste Treatment Plant on March 7, 2016, with one additional drum transported offsite on April 26, 2016 (manifests provided in Appendix F).

#### 5.0 COMMUNITY AIR MONITORING

A Community Air Monitoring Plan (CAMP) was prepared for the work activities and followed throughout the duration of cleaning activities. The CAMP was included as part of the Work Plan, and is consistent with the requirements for community air monitoring at remediation sites as established by the NYSDOH and the NYSDEC. The plan follows procedures and practices outlined under the NYSDOH's Generic Community Air Monitoring Plan, dated June 2000.

The CAMP provided for a measure of protection for downwind communities from potential airborne releases of constituents of concern during the cleaning of the ASTs. The CAMP specified air emissions monitoring criteria, air monitoring procedures, monitoring schedule and data collection and reporting requirements for the activities conducted. Real-time air monitoring was implemented at the site for VOCs and particulate matter less than 10 microns in diameter (PM<sub>10</sub>). Prior to the start of work activities, a site boundary was established for air monitoring purposes. Upwind and downwind monitoring locations were determined through visual observation; wind direction was noted via several raised flags, and monitored were placed in accordance with the direction of the wind. Monitoring also occurred in each work zone area. Three portable set-ups including a RAE® Systems MiniRAE 3000, DustTrak II, along with Netronix transmitters, which were capable of providing instantaneous readings, average readings, and data logging in three locations (upwind of activity, in the work zone, and downwind of activity). Baseline air sampling took place prior to the start of cleaning activities on October 12, 2015.

Monitoring locations were determined daily based on visual observations and wind direction, precipitation, and work tasks. Air monitoring equipment was placed upwind, downwind, and at the working locations at the start of each workday. In the event the wind direction shifted more than 45 degrees from the original upwind direction during the workday, then new upwind and downwind sampling locations were established and location changes were documented in the field logbook. A RAE® Systems MiniRAE 3000 was used to conduct real-time VOC monitoring. Real-time particulate monitoring took place using Dust Trak II instruments with electronic data-logging



capabilities. All 15-minute readings, as well as instantaneous readings, were recorded in an online database and monitored by field staff for any exceedances of monitoring criteria. As described in the CAMP, if ambient air concentrations of total VOCs exceeded 5 parts per million (ppm) above the background (upwind location) for the 15-minute average, work activities were temporarily halted to address the source of the exceedance and monitoring continued. If the ambient air concentration of PM<sub>10</sub> at any one (or more) of the monitoring locations was noted in levels in excess of 100 micrograms per cubic meter (µg/L³) above the background (upwind location) for a 15-minute period, or if the airborne mist, aerosol or dust was observed leaving the work area, site activities were temporarily halted while monitoring continued. Calibration of the VOC and PM<sub>10</sub> instruments occurred in accordance with each of the equipment manufacturer's calibration and quality assurance requirements. The VOC and PM10 instruments were calibrated daily and calibrations were recorded in the field activity logbook. Anomalies observed during air monitoring were noted and addressed on-site. Data from air monitoring was archived for review. There were minimal exceedances during cleaning activities (see Appendix G). The exceedances recorded were attributed to smoke filling the PTP building as a result of using a hot pressure washer which set off the air monitor near the work zone (solved by relocating hot pressure washer), and spray/mist generated from cleaning of the wall near the door entering the work zone and setting off the monitor (solved by temporary poly-sheeting placed over the doorway while cleaning took place). The upwind and downwind air monitoring set ups were relocated daily, depending on wind direction. The work zone set up stayed in the same location throughout the entire process.

## 6.0 QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

Site-specific FSP and QAPP were developed for the proposed work and were included in the Work Plan. The Quality Assurance/Quality Control Program (QA/QC) program was designed to maximize the quality and validity of the data generated during the decommissioning activities. The FSP and QAPP describe detailed sampling and analytical procedures, as well as any necessary QA/QC sampling required for the project. Adherence to the procedures in the FSP and QAPP allows for valid and usable analytical data.

#### 6.1 Quality Assurance/Quality Control (QA/QC)

The QA/QC included collection of a field duplicate, matrix spike, and matrix spike duplicate samples. Laboratory analytical procedures adhered to NYSDEC ASP and/or to USEPA SW-846 methodologies as appropriate. The laboratory adhered to the requirements of NYSDEC ASP 2005 in conjunction with the Contract Laboratory Protocol. Complete ASP category B/Tier IV QA/QC data deliverables were provided by ALS Environmental for the confirmation rinsate sampling analytical reports. A Data Usability Summary Report (DUSR) was developed from the Category B



data packages. These packages were reviewed for completeness and the DUSR has been provided in Appendix H. The project QA/QC officer reviewed the data packages to confirm completeness of the ASP Category B deliverables to prepare a Data Usability Summary Report (DUSR) in accordance with NYSDEC guidelines. NYSDEC approved a third party validator from Alpha GeoScience to complete the DUSR in an e-mail dated January 25, 2016. The QA/QC officer was independent from the analytical laboratory.

#### 7.0 OBSERVATIONS AND LIMITATIONS

Throughout the tank cleaning process, T-110 and vessels 1 and 2 were visually inspected for cracks, fissures, missing seals, deterioration, patches, and overall cleanliness. Associated piping going into T-110 and vessels 1 and 2 was also visually inspected during cleaning activities for signs of leakage or breaks in the pipe lines. Photos taken are presented in a Photo Log located in Appendix C. No observations were made during the final inspection that would indicate an issue with the integrity of the AST, vessels, or piping systems.

The following observations were made during the decontamination activities at the PTP SWMU:

- Tank walls and floor show numerous patched areas across the walls and the entire bottom. These
  observations were made during initial pressure washing (when wall build-up began being washed off). The
  patches appeared to be epoxy or similar coating applied in layers in different areas of the tank as part of
  tank maintenance.
- Several minor CAMP exceedances were reported in the work zone, which were addressed by stopping work to determine the source and implementation of corrective measures to address exhaust and spray from pressure washers (determined to be the sources of the exceedances).
- During environmental media removal, a sump, was observed near the interior south wall of the tank (shown in Figure 2). The sump consisted of a 2 by 2 foot square depressed area in the floor, constructed of the same steel material used for the tank. No piping was found to be associated with the sump. Examination of the ground surface outside T-110 adjacent to the location of the sump did not show any signs of disruption.

#### 8.0 SUMMARY

Cleaning, inspection, confirmatory sampling and waste management for T-110 and sand filter vessels at the PTP was completed April 27, 2016. All work conducted on the Site was supervised by the Site Manager and field staff to ensure adherence to the approved Work Plan.



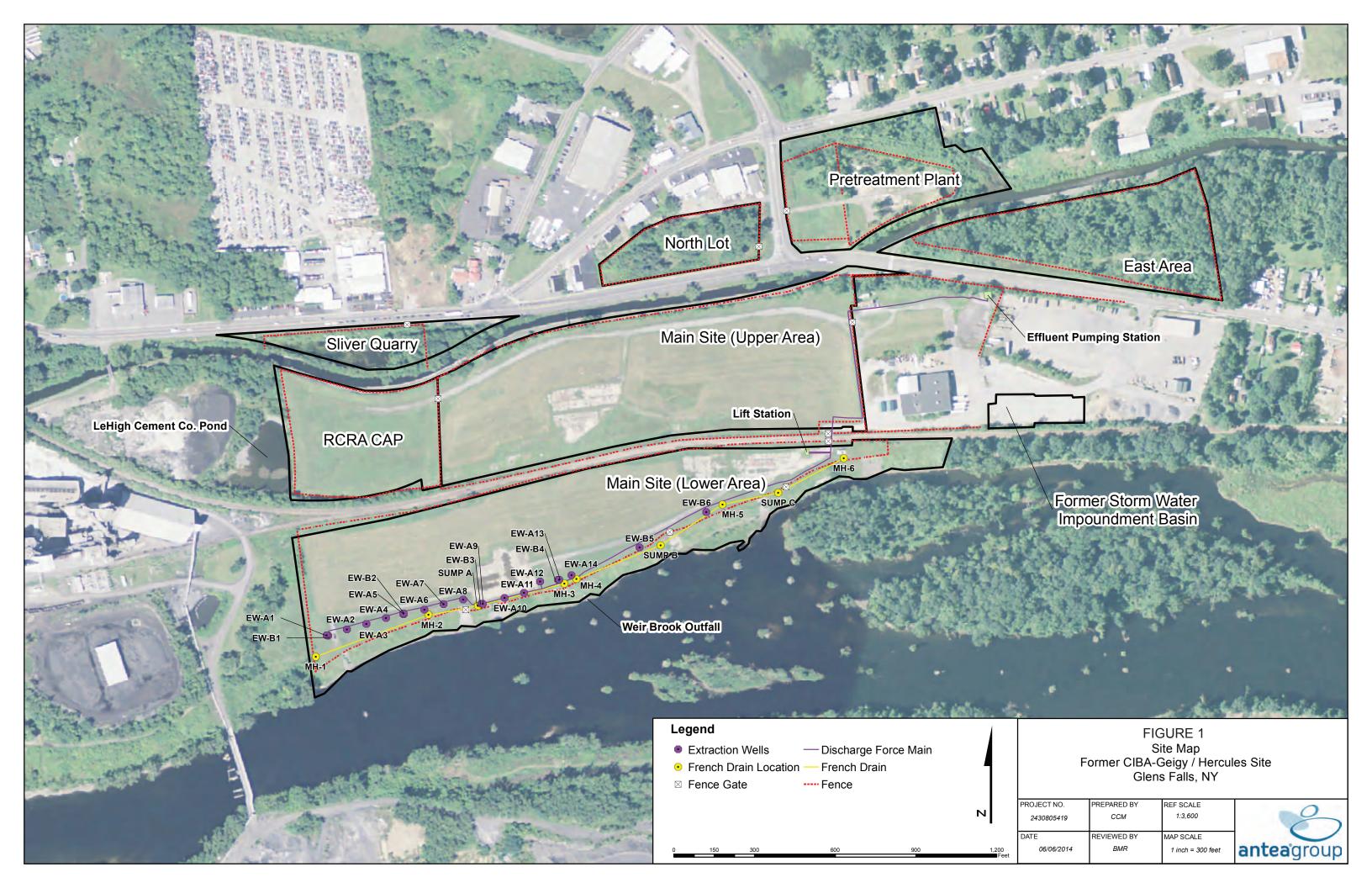
Confirmation sample results are presented in Table 1, and the dataset was approved by the NYSDEC in an e-mail sent on December 14, 2015. Successful completion of the tank and vessel cleaning activities will allow for demolition of the tank, vessels, and surrounding buildings.

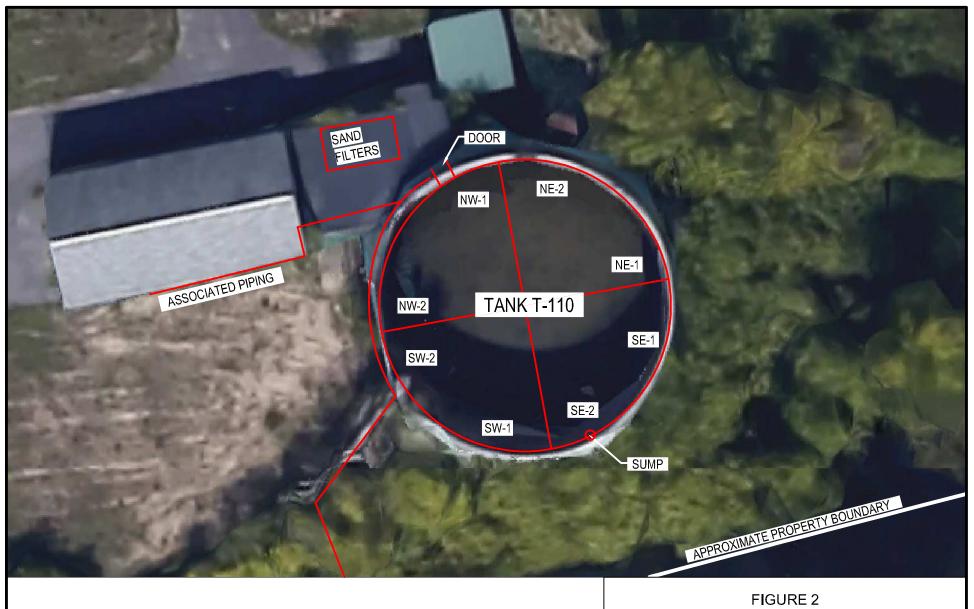


# **Figures**

Figure 1 Site Map

Figure 2 Former Pretreatment Plant Rinsate Sampling Quadrants







### Former Pretreatment Plant AST Sample Quadrants

Former Ciba-Geigy/Hercules Site Queensbury, New York

PROJECT NO.	PREPARED BY	DRAWN BY
GLENSFA151	cc	LKO
DATE	REVIEWED BY	FILE NAME
1-25-16	CM	GF_Aerial 2016





# Appendix A

Design Document Pretreatment Plant Process Summary Table

# TABLE 10-1 MAJOR EQUIPMENT LIST (MEL)<sup>1</sup>

ITEM	QUANTITY (and ID#)	TYPE	PURPOSE and (STATUS)**
Equalization Tank	1 (T-110)	Coated steel tank, 500,000-gallon total capacity, 350,000- gallon typical operating capacity	Receives influent from the GWES, provides for contaminant load equalization and allows settlement of particulates. In addition, receives recycled water from backwash operations and stores influent and backwash water during PTS shutdown for maintenance/repairs. Its large storage volume compared to the GWES pumping rate enables operation of the PTS on an intermittent, batch-treatment basis.
Influent Pump	2 (P-1001, P1002)	End Suction 2.5" x 3"	Transfer water through the process train at 200 gpm, at 70' TDH (1-operating, 1 spare)
Chemical Addition System	2 New units, CFP- 1 & CFP-2	HCL and NaOH	To add a chemical prior to anion exchange to lower pH (HCL) or raise pH (NaOH). Chemical pumps are positive displacement metering pumps, 100:1 turndown ration, 100 psig.
Sand Filter	1 Duplex Unit (SF-1, SF-2)	ex IT Corporation 15 Filter particulates that did not precipitate in T-	
Holding Tank And Mixer	1 (T-1001) and (M1001)	New, IT, 2000-gallon, HDPE vertical, flat bottom.	Pump reservoir for P-1003 transfer to IX and MX vessels. Also, pH adjustment. (Chemtainer).
IX, MX Transfer Pump	1 (P-1003)	New, End Suction 2" x 3"	Transfer water through filters, anion vessels and MetallX vessels. (Goulds 3657/3757, 200 gpm @ 170' TDH – 20 HP)

<sup>\*\* -</sup> All equipment was permanently removed from service sometime between February 2002 and November 2003.

# TABLE 10-1 MAJOR EQUIPMENT LIST (MEL)<sup>1</sup>

QUANTITY (and ID#)	TYPE	PURPOSE and (STATUS)**
2 Duplex Units (BF-1 & BF-2)	IT Corporation 150 psig, 100 gpm each pair; 200 gpm total	Filter particulates from process stream downstream of treatment media. Change bags at 8 – 10 psid increase compared to new units. (ASME Model by Rosedale.)
1 Duplex Unit (IX-1, IX-2)	IT Corporation 80 psig, 8,000 lb. unit, 100 gpm each; 200 gpm total	Remove sulfate from the process stream prior to metals removal. Brine regeneration on site; ASME rated, but not stamped, fiberglass vessels; top mounted motorized cycle valve. Backwash at 8 – 10 psid increase compared to clean units.
1 each (T- 1002	1000-gallon storage vessel, Fiberglass	Regenerate SBA resin for sulfate removal and reuse. Eductor provides "pumpless" addition of Brine or Bleach (NaOCl) solution using city water. Bleach for cyanide rinse of anion resin.
Filter Unit (MX-1, psig, 8,000 lb. unit, discharge, last stage on WTP. No on		Remove multivalent anions from the process stream prior to discharge, last stage on WTP. No on site regeneration planned. Backwash at 8 to 10 psid increase compared to clean units.
1 (P-1004, T1003)	New, IT, End Suction 2" x3" 1000-g Tank, HDPE Vertical Flat	Backwash media filters to remove collected solids. (Goulds Pump No. 3657/3757 200 gpm @ 100" TDH, 10 HP)
	(and ID#)  2 Duplex Units (BF-1 & BF-2)  1 Duplex Unit (IX-1, IX-2)  1 each (T-1002  1 Duplex Unit (MX-1, MX-2)  1 (P-1004,	2 Duplex Units (BF-1 & BF-2)  1 Duplex Unit (IX-1, IX-2)  1 each (T-1002  1 Duplex Unit (MX-1, MX-2)  1 Duplex Unit (MX-1, MX-2)  1 Duplex Unit (MX-1, MX-2)  1 Corporation 80 psig, 8,000 lb. unit, 100 gpm each; 200 gpm total  1 Corporation 80 psig, 8,000 lb. unit, 100 gpm each; 200 gpm total  1 P-1004, New, IT, T1003)  1 Corporation 80 psig, 8,000 lb. unit, 100 gpm each; 200 gpm total  1 (P-1004, T1003)  1 Corporation 80 psig, 100 gpm each; 200 gpm total

<sup>1.</sup> This table is adapted from Table 1 prepared by IT Corporation as part of the Contractor's Pre-treatment Plan for contact –water management and treatment during construction of the CM at the site.

<sup>\*\* -</sup> All equipment was permanently removed from service sometime between February 2002 and November 2003.



# Appendix B

Correspondence

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau A 625 Broadway, 12th Floor, Albany, NY 12233-7015 P: (518) 402-9625 I F: (518) 402-9627 www.dec.ny.gov

SEP 3 0 2015

James Vondracek Ashland Inc. 5200 Blazer Parkway Dublin, OH 43017 jevondracek@ashland.com

Mr. Stephen Havlik BASF Corporation 227 Oak Ridge Parkway Toms River, NJ 08755 steve.havlik@basf.com

Re:

Ciba Geigy Main Plant/Pretreatment Plant

EPA ID NYD002069748

Site No.: 557011

Dear Mr. Vondracek & Mr. Havlik,

The Department has reviewed the AST Decommissioning Work Plan, dated September 23, 2015. The Department finds the plan to be acceptable. Department requests to be notified 7 days prior to field work and 15 days prior to off-site disposal of materials from the site. The off-site disposal notification shall include volume of material, analytical results and disposal facility. Please contact me if you have any questions at 518-402-9626.

Regards,

Brian Jankauskas, P.E. Environmental Engineer II Remedial Bureau A, Section C

ecc:

John Swartwout
Laura McMahon
Christopher Meyer
Scott Recker
Mark Schumacher
Jeffrey Caputi
Arlene Lillie

File



From: New York
To: Christopher Meyer

Cc: <u>Bryan Reles</u>; <u>tsceastny@wm.com</u>

Subject: [WMSolutions.com] Profile #115958NY has been approved

**Date:** Thursday, January 21, 2016 9:08:10 AM





# Notice of Profile Approval: #115958NY

Profile Number:	115958NY
Waste Stream:	Environmental Derived Waste
Generator Name:	Hercules Inc. and Ciba Corporation
Disposal Site:	High Acres Landfill
Expiration Date:	01/18/2017

## Dear Bryan Reles,

We are pleased to inform you that Profile 115958NY has been approved by our New York Technical Service Center. Your Waste Approval Terms and Conditions can be found on either your *Profile Form* or *Approval Form*. Both documents are available as a PDF in the *Approved Tab* in your WMSolutions.com account.

Please feel free to email us at <u>TSCEastNY@wm.com</u> or call 800-963-4776 with any questions.

Thank you for choosing Waste Management.

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#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau A 625 Broadway, 12th Floor, Albany, NY 12233-7015 P: (518) 402-9625 | F: (518) 402-9627 www.dec.ny.gov

October 23, 2015

Mr. Mark J. Schumacher Senior Project Manager Antea USA, Inc. 5788 Widewaters Parkway, 2nd Floor Syracuse, NY 13214

Re: "Contained-In" Determination Request for Wastewater

Former CIBA-GEIGY/HERCULES Site

89 Lower Warren Street, Glens Falls, NY 12804

Dear Mr. Schumacher:

We have reviewed the Water analytical data submitted with your October 21, 2015 request for a "Contained-in" determination for Wastewater.

Based on our review, Water (Data ID: PTPAST, FRAC-1and FRAC-3) met "contained-in" groundwater action levels and Land Disposal Restriction concentrations. No hazardous constituents exhibited a hazardous waste characteristic by exceeding their TCLP regulatory level. Therefore, the wastewater (Data ID: PTPAST, FRAC-1and FRAC-3) stored on 2 Frac Tanks, approximately 38,000 gallons of water, do not have to be managed as hazardous waste and can be transported off site as non-regulated water to the City of Glenn Falls POTW, for processing.

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-9622 or email me at henry.wilkie@dec.ny.gov.

Sincerely,

Henry Wilkie Environmental Engineer 1 Remedial Section B

ecc: B. Jankauskas





Water & Sewer Department Telephone: [518] 761-3850 24 Hr. Water & Sewer Emergencies: [518] 761-3857

- Fax: [518] 761-3862
- www.cityofglensfalls.com

Mr. Mark Schumacher, Senior Project Manager Antea USA, Inc. 5788 Widewaters Parkway, 2nd Floor Syracuse, NY 13214 USA

Subject: Receipt of Waste Water from dewatering PTP AST

Mr. Schumacher:

Based on the analyses submitted via email on 10/23/2015, the material in "Frac Tanks" numbers one and three is acceptable for discharge to the Glens Falls WWTP.

Please contact me with any questions you may have regarding this.

Sincerely,

Lawrence Glasheen, Chief Operator

Glens Falls WWTP 2 Shermantown Road Glens Falls 12801

Telephone: (518) 761-3850 ext 112

(518) 761-3862 Telefax:

Email: Iglasheen@cityofglensfalls.com

#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau A 625 Broadway, 12th Floor, Albany, NY 12233-7015 P: (518) 402-9625 | F: (518) 402-9627 www.dec.ny.gov

November 3, 2015

Mr. Mark J. Schumacher Senior Project Manager Antea USA, Inc. 5788 Widewaters Parkway, 2nd Floor Syracuse, NY 13214

Re: "Contained-In" Determination Request for Environmental Media Former CIBA-GEIGY/HERCULES Site 89 Lower Warren Street, Glens Falls, NY 12804

Dear Mr. Schumacher:

We have reviewed the analytical data submitted with your October 21, 2015 request for a "Contained-in" determination for Environmental Media (bio-accumulation that has occurred over time. The Above Storage Tank (AST) is open-topped tank. As a result, a portion of the recovered mass is the result of the breakdown and decomposition of leaves and other organic matter).

Based on our review, the Environmental Media (Data ID: SLUDGE 1) met "contained-in" soil/sediment action levels and Land Disposal Restriction concentrations. No hazardous constituents exhibited a hazardous waste characteristic by exceeding their TCLP regulatory level. Therefore, the Environmental Media from the AST, between 15-25 tons, do not have to be managed as hazardous waste and can be transported off site to the High Acres Landfill located in Fairport, NY, for disposal.

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-9622 or email me at henry.wilkie@dec.ny.gov.

Sincerely,

Henry Wilkie

Environmental Engineer 1 Remedial Section B

ecc: B. Jankauskas



#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau A 625 Broadway, 12th Floor, Albany, NY 12233-7015 P: (518) 402-9625 I F: (518) 402-9627 www.dec.ny.gov

DEC 17 2015

James Vondracek Ashland Inc. 5200 Blazer Parkway Dublin, OH 43017 jevondracek@ashland.com

Mr. Stephen Havlik BASF Corporation 227 Oak Ridge Parkway Toms River, NJ 08755 steve.havlik@basf.com

Re:

Ciba Geigy Main Plant/Pretreatment Plant

EPA ID NYD002069748

Site No.: 557011

Dear Mr. Vondracek and Mr. Havlik,

The Department has reviewed the December 10, 2015, Contained-In request for the material removed from the walls during the recent cleaning of tank T-110. The Department understands the material removed from the tank is not an environmental media, as a result a contained-in determination can not be provided.

As indicated in your letter, the tank was part of the treatment train to hold wastewater generated from the main plant during site operations and later utilized during corrective measures as part of the treatment train to remove site related heavy metals from extracted groundwater. The tank historically contained material that was a listed K waste for inorganic pigments. Based on laboratory analysis provided for the material removed from the tank, some amount of hazardous waste/residue has been retained within this material. Waste derived from the treatment, storage, or disposal of listed waste is a listed waste. The Department finds that the material removed from the tank wall is derived from K waste for inorganic pigments and must be handled as a hazardous waste.

Regards,

Brian Jankauskas, P.E. Environmental Engineer II

Remedial Bureau A, Section C

ecc:

John Swartwout Christopher Meyers Laura McMahon



#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau A 625 Broadway, 12th Floor, Albany, NY 12233-7015 P: (518) 402-9625 | F: (518) 402-9627 www.dec.ny.gov

December 1, 2016

Mr. Mark J. Schumacher Senior Project Manager Antea USA, Inc. 5788 Widewaters Parkway, 2nd Floor Syracuse, NY 13214

Re: Frac Tank 2 (FRAC-2) Waste Determination

Ciba Geigy/Hercules Main Plant

EPA ID: NYD002069748

Site No.: 557011

Dear Mr. Schumacher:

We have reviewed the Water analytical data submitted with your November 22, 2016 request for a "Contained-in" determination for Wastewater.

Based on our review, Water (Data ID: FRAC-2) met "contained-in" groundwater action levels and Land Disposal Restriction concentrations. No hazardous constituents exhibited a hazardous waste characteristic by exceeding their TCLP regulatory level. Therefore, the wastewater (Data ID: FRAC-2) stored on a Frac Tank, approximately 20,000 gallons of water, do not have to be managed as hazardous waste and can be transported off site as non-regulated water to the City of Glenn Falls POTW, for processing.

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-9622 or email me at henry.wilkie@dec.ny.gov.

Sincerely,

Henry Wilkie Environmental Engineer 1 Remedial Section B

ecc: B. Jankauskas



AST Decommissioning Report Former CIBA-GEIGY/HERCULES Plant Site Queensbury, New York Antea Group Project No. GLENSFA151



## Appendix C

Photo Log



### **AST Cleaning Photographs**

### Index

Photo 1	PTP Building, western end
Photo 2	Tank-110 and above ground piping, view east
Photo 3	Tank-110 access port and drain valve in PTP building
Photo 4	Skid mounted sand vessels in PTP
Photo 5	Tank-110 before dewatering.
Photo 6	Tank-110 after dewatering, before bioaccumulation removal
Photo 7	Tank-110 west wall prior to pressure washing
Photo 8	Tank -110 northwest wall during cleaning
Photo 9	Tank-110 floor after cleaning Nov. 23, 2015
Photo 10	Tank-110 floor (left side of photo after initial clean, right side not cleaned)
Photo 11	Tank-110 layers on floor during cleaning
Photo 12	Tank-110 southwest wall cleaned (after rinsate sample)
Photo 13	Bioaccumulation bin 1, prior to solidification
Photo 14	Bioaccumulation bin 1, after dewatering and before solidification
Photo 15	Bioaccumulation bin 2 following solidification with lime ash
Photo 16	Vessel interior prior to cleaning
Photo 17	Vessel interior following cleaning
Photo 18	Blanked outlet on south side vessels
Photo 19	Blanked piping
Photo 20	Blanked top of vessel
Photo 21	On-site frac tanks for water storage
Photo 22	Chip from tank wall
Photo 23	CAMP set up upwind
Photo 24	Tank-110 exterior, taken facing east
Photo 25	Tank-110 exterior, taken facing south
Photo 26	Visual Inspection: SE-1 and SE-2
Photo 27	Visual Inspection: SE-2
Photo 28	Visual Inspection: SW-1 and SW-2
Photo 29	Visual Inspection: NW-1 and NW-2
Photo 30	Visual Inspection:NW-1
Photo 31	Visual Inspection: NE-1 and NE-2
Photo 32	NW wall with holes drilled along bottom
Photo 33	Holes drilled in AST walls on NW side
Photo 34	NE wall with holes drilled along bottom
Photo 35	Hole drilled on NE wall





Photo 1 PTP Building, western end



Photo 2 Tank-110 and above ground piping, view east





Photo 3 Tank-110 access port and drain valve in PTP building



Photo 4 Skid mounted sand vessels in PTP





Photo 5 Tank-110 before dewatering.

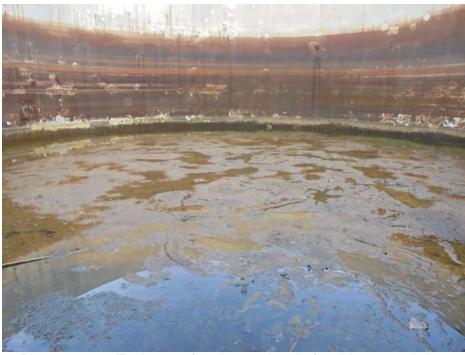


Photo 6 Tank-110 after dewatering, before bioaccumulation removal





Photo 7 Tank-110 west wall prior to pressure washing





Photo 8 Tank -110 northwest wall during cleaning



Photo 9 Tank-110 floor after cleaning Nov. 23, 2015





Photo 10 Tank-110 floor (left side of photo after initial clean, right side not cleaned)



Photo 11 Tank-110 layers on floor during cleaning





Photo 12 Tank-110 southwest wall cleaned (after rinsate sample)



Photo 13 Bioaccumulation bin 1, prior to solidification





Photo 14 Bioaccumulation bin 1, after dewatering and before solidification



Photo 15 Bioaccumulation bin 2 following solidification with lime ash





Photo 16 Vessel interior prior to cleaning



Photo 17 Vessel interior following cleaning





Photo 18 Blanked outlet on south side vessels



Photo 19 Blanked piping





Photo 20 Blanked top of vessel



Photo 21 On-site frac tanks for water storage





Photo 22 Chip from tank wall



Photo 23 CAMP set up upwind





Photo 24 Tank-110 exterior, taken facing east



Photo 25 Tank-110 exterior, taken facing south





Photo 26 Visual Inspection: SE-1 and SE-2



Photo 27 Visual Inspection: SE-2





Photo 28 Visual Inspection: SW-1 and SW-2



Photo 29 Visual Inspection: NW-1 and NW-2





Photo 30 Visual Inspection:NW-1



Photo 31 Visual Inspection: NE-1 and NE-2





Photo 32 NW wall with holes drilled along bottom



Photo 33 Holes drilled in AST walls on NW side





Photo 34 NE wall with holes drilled along bottom



Photo 35 Hole drilled on NE wall

AST Decommissioning Report Former CIBA-GEIGY/HERCULES Plant Site Queensbury, New York Antea Group Project No. GLENSFA151



## Appendix D

Confirmatory Sample Laboratory Data



Service Request No:R1509357

Mr. Mark Schumacher Antea USA Inc 5788 Widewaters Pkwy Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr.Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory October 31, 2015 For your reference, these analyses have been assigned our service request number **R1509357**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

Akeye

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes

Project Manager

#### **CASE NARRATIVE**

This report contains analytical results for the following samples:

Service Request Number: R1509357

SAMPLE #	CLIENT SAMPLE ID	<u>DATE</u>	<u>TIME</u>
R1509357-001	NE-1	10/30/2015	1300
R1509357-002	TEST-2	10/30/2015	1200
R1509357-003	TEST-3	10/30/2015	1230

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.



### REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits. Under the õNotesö column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an õimmediateö hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)

  The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



#### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

<sup>&</sup>lt;sup>1</sup> Analyses were performed according to our laboratory¢s NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <a href="http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads">http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads</a>



#### **INORGANIC PREPARATION METHODS**

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

#### Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid	9030B
Soluble	
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual	SM 4500-CN-G
Cyanide	
SM 4500-CN-E WAD	SM 4500-CN-I
Cyanide	

#### Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311)	3005A/3010A
extract	
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/	DI extraction
353.2/ SM 2320B/ SM	
5210B/ 9056A Anions	

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Analytical Report

Client: Antea USA Inc Service Request: R1509357

Project: Queensbury, NY/Glens Falls- Rinsate Date Collected: 10/30/15 13:00

Sample Matrix: Water Date Received: 10/31/15 10:55

Sample Name: NE-1 Basis: NA

**Lab Code:** R1509357-001

### **General Chemistry Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	ND U	mg/L	0.010	1	10/31/15 11:35	NA	
Cyanide, Total	9012B	ND U	mg/L	0.010	1	11/02/15 15:50	11/02/15	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509357

Project: Queensbury, NY/Glens Falls- Rinsate Date Collected: 10/30/15 13:00

Sample Matrix: Water Date Received: 10/31/15 10:55

Sample Name: NE-1 Basis: NA

**Lab Code:** R1509357-001

### **Inorganic Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Aluminum, Total	6010C	ND U	mg/L	0.10	1	11/03/15 08:21	11/02/15	
Antimony, Total	6010C	ND U	mg/L	0.060	1	11/03/15 12:25	11/02/15	
Arsenic, Total	6010C	ND U	mg/L	0.010	1	11/03/15 07:52	11/02/15	
Barium, Total	6010C	ND U	mg/L	0.020	1	11/03/15 07:52	11/02/15	
Beryllium, Total	6010C	ND U	mg/L	0.0030	1	11/03/15 07:52	11/02/15	
Cadmium, Total	6010C	ND U	mg/L	0.0050	1	11/03/15 07:52	11/02/15	
Calcium, Total	6010C	6.0	mg/L	1.0	1	11/03/15 07:52	11/02/15	
Chromium, Total	6010C	ND U	mg/L	0.010	1	11/03/15 07:52	11/02/15	
Cobalt, Total	6010C	ND U	mg/L	0.050	1	11/03/15 07:52	11/02/15	
Copper, Total	6010C	ND U	mg/L	0.020	1	11/03/15 07:52	11/02/15	
Iron, Total	6010C	0.77	mg/L	0.10	1	11/03/15 07:52	11/02/15	
Lead, Total	6010C	ND U	mg/L	0.050	1	11/03/15 07:52	11/02/15	
Magnesium, Total	6010C	1.4	mg/L	1.0	1	11/03/15 07:52	11/02/15	
Manganese, Total	6010C	0.039	mg/L	0.010	1	11/03/15 07:52	11/02/15	
Mercury, Total	7470A	ND U	mg/L	0.00020	1	11/03/15 10:26	11/02/15	
Nickel, Total	6010C	ND U	mg/L	0.040	1	11/03/15 07:52	11/02/15	
Potassium, Total	6010C	ND U	mg/L	2.0	1	11/03/15 08:21	11/02/15	
Selenium, Total	6010C	ND U	mg/L	0.010	1	11/03/15 07:52	11/02/15	
Silver, Total	6010C	ND U	mg/L	0.010	1	11/03/15 07:52	11/02/15	
Sodium, Total	6010C	13.1	mg/L	1.0	1	11/03/15 08:21	11/02/15	
Thallium, Total	6010C	ND U	mg/L	0.010	1	11/03/15 07:52	11/02/15	
Vanadium, Total	6010C	ND U	mg/L	0.050	1	11/03/15 07:52	11/02/15	
Zinc, Total	6010C	0.021	mg/L	0.020	1	11/03/15 07:52	11/02/15	

Analytical Report

Client: Antea USA Inc Service Request: R1509357

Project: Queensbury, NY/Glens Falls- Rinsate Date Collected: 10/30/15 12:00

Sample Matrix: Water Date Received: 10/31/15 10:55

Sample Name: TEST-2 Basis: NA

**Lab Code:** R1509357-002

### **General Chemistry Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.015	mg/L	0.010	1	10/31/15 11:36	NA	
Cyanide, Total	9012B	ND U	mg/L	0.010	1	11/02/15 15:51	11/02/15	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509357

Project: Queensbury, NY/Glens Falls- Rinsate Date Collected: 10/30/15 12:00

Sample Matrix: Water Date Received: 10/31/15 10:55

Sample Name: TEST-2 Basis: NA

**Lab Code:** R1509357-002

**Analysis** 

### **Inorganic Parameters**

Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	ND U	mg/L	0.10	1	11/03/15 08:27	11/02/15	
Antimony, Total	6010C	ND U	mg/L	0.060	1	11/03/15 12:31	11/02/15	
Arsenic, Total	6010C	ND U	mg/L	0.010	1	11/03/15 07:58	11/02/15	
Barium, Total	6010C	ND U	mg/L	0.020	1	11/03/15 07:58	11/02/15	
Beryllium, Total	6010C	ND U	mg/L	0.0030	1	11/03/15 07:58	11/02/15	
Cadmium, Total	6010C	ND U	mg/L	0.0050	1	11/03/15 07:58	11/02/15	
Calcium, Total	6010C	7.2	mg/L	1.0	1	11/03/15 07:58	11/02/15	
Chromium, Total	6010C	6.86	mg/L	0.010	1	11/03/15 07:58	11/02/15	
Cobalt, Total	6010C	ND U	mg/L	0.050	1	11/03/15 07:58	11/02/15	
Copper, Total	6010C	ND U	mg/L	0.020	1	11/03/15 07:58	11/02/15	
Iron, Total	6010C	ND U	mg/L	0.10	1	11/03/15 07:58	11/02/15	
Lead, Total	6010C	ND U	mg/L	0.050	1	11/03/15 07:58	11/02/15	
Magnesium, Total	6010C	3.1	mg/L	1.0	1	11/03/15 07:58	11/02/15	
Manganese, Total	6010C	ND U	mg/L	0.010	1	11/03/15 07:58	11/02/15	
Mercury, Total	7470A	ND U	mg/L	0.00020	1	11/03/15 10:28	11/02/15	
Nickel, Total	6010C	ND U	mg/L	0.040	1	11/03/15 07:58	11/02/15	
Potassium, Total	6010C	ND U	mg/L	2.0	1	11/03/15 08:27	11/02/15	
Selenium, Total	6010C	ND U	mg/L	0.010	1	11/03/15 07:58	11/02/15	
Silver, Total	6010C	ND U	mg/L	0.010	1	11/03/15 07:58	11/02/15	
Sodium, Total	6010C	77.6	mg/L	1.0	1	11/03/15 08:27	11/02/15	
Thallium, Total	6010C	ND U	mg/L	0.010	1	11/03/15 07:58	11/02/15	
Vanadium, Total	6010C	ND U	mg/L	0.050	1	11/03/15 07:58	11/02/15	
Zinc, Total	6010C	ND U	mg/L	0.020	1	11/03/15 07:58	11/02/15	

Analytical Report

Client: Antea USA Inc Service Request: R1509357

**Project:** Queensbury, NY/Glens Falls- Rinsate **Date Collected:** 10/30/15 12:30

Sample Matrix: Water Date Received: 10/31/15 10:55

Sample Name: TEST-3 Basis: NA

**Lab Code:** R1509357-003

### **General Chemistry Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	ND U	mg/L	0.010	1	10/31/15 11:33	NA	
Cyanide, Total	9012B	0.022	mg/L	0.010	1	11/02/15 15:52	11/02/15	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509357

Project: Queensbury, NY/Glens Falls- Rinsate Date Collected: 10/30/15 12:30

Sample Matrix: Water Date Received: 10/31/15 10:55

Sample Name: TEST-3 Basis: NA

**Lab Code:** R1509357-003

**Analysis** 

### **Inorganic Parameters**

Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.11	mg/L	0.10	1	11/03/15 08:33	11/02/15	
Antimony, Total	6010C	ND U	mg/L	0.060	1	11/03/15 12:38	11/02/15	
Arsenic, Total	6010C	ND U	mg/L	0.010	1	11/03/15 08:04	11/02/15	
Barium, Total	6010C	0.048	mg/L	0.020	1	11/03/15 08:04	11/02/15	
Beryllium, Total	6010C	ND U	mg/L	0.0030	1	11/03/15 08:04	11/02/15	
Cadmium, Total	6010C	ND U	mg/L	0.0050	1	11/03/15 08:04	11/02/15	
Calcium, Total	6010C	12.0	mg/L	1.0	1	11/03/15 08:04	11/02/15	
Chromium, Total	6010C	0.040	mg/L	0.010	1	11/03/15 08:04	11/02/15	
Cobalt, Total	6010C	ND U	mg/L	0.050	1	11/03/15 08:04	11/02/15	
Copper, Total	6010C	ND U	mg/L	0.020	1	11/03/15 08:04	11/02/15	
Iron, Total	6010C	1.78	mg/L	0.10	1	11/03/15 08:04	11/02/15	
Lead, Total	6010C	ND U	mg/L	0.050	1	11/03/15 08:04	11/02/15	
Magnesium, Total	6010C	2.5	mg/L	1.0	1	11/03/15 08:04	11/02/15	
Manganese, Total	6010C	ND U	mg/L	0.010	1	11/03/15 08:04	11/02/15	
Mercury, Total	7470A	ND U	mg/L	0.00020	1	11/03/15 10:34	11/02/15	
Nickel, Total	6010C	ND U	mg/L	0.040	1	11/03/15 08:04	11/02/15	
Potassium, Total	6010C	ND U	mg/L	2.0	1	11/03/15 08:33	11/02/15	
Selenium, Total	6010C	ND U	mg/L	0.010	1	11/03/15 08:04	11/02/15	
Silver, Total	6010C	ND U	mg/L	0.010	1	11/03/15 08:04	11/02/15	
Sodium, Total	6010C	4.9	mg/L	1.0	1	11/03/15 08:33	11/02/15	
Thallium, Total	6010C	ND U	mg/L	0.010	1	11/03/15 08:04	11/02/15	
Vanadium, Total	6010C	ND U	mg/L	0.050	1	11/03/15 08:04	11/02/15	
Zinc, Total	6010C	ND U	mg/L	0.020	1	11/03/15 08:04	11/02/15	

Analytical Report

Client: Antea USA Inc Service Request: R1509357

Project:Queensbury, NY/Glens Falls- RinsateDate Collected: NASample Matrix:WaterDate Received: NA

Sample Name: Method Blank Basis: NA

**Lab Code:** R1509357-MB

#### **General Chemistry Parameters**

**Analysis Analyte Name** Method Result Units MRL Dil. **Date Analyzed Date Extracted** Chromium, Hexavalent 7196A ND U mg/L 0.010 10/31/15 11:27 NA Cyanide, Total 9012B ND U mg/L0.010 1 11/02/15 15:36 11/02/15

#### Analytical Report

Client: Antea USA Inc Service Request: R1509357

Project:Queensbury, NY/Glens Falls- RinsateDate Collected: NASample Matrix:WaterDate Received: NA

Sample Name: Method Blank Basis: NA

**Lab Code:** R1509357-MB

#### **Inorganic Parameters**

	Analysis							
<b>Analyte Name</b>	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Aluminum, Total	6010C	ND U	mg/L	0.10	1	11/03/15 06:50	11/02/15	
Antimony, Total	6010C	ND U	mg/L	0.060	1	11/03/15 11:41	11/02/15	
Arsenic, Total	6010C	ND U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Barium, Total	6010C	ND U	mg/L	0.020	1	11/03/15 06:37	11/02/15	
Beryllium, Total	6010C	ND U	mg/L	0.0030	1	11/03/15 06:37	11/02/15	
Cadmium, Total	6010C	ND U	mg/L	0.0050	1	11/03/15 06:37	11/02/15	
Calcium, Total	6010C	ND U	mg/L	1.0	1	11/03/15 06:37	11/02/15	
Chromium, Total	6010C	ND U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Cobalt, Total	6010C	ND U	mg/L	0.050	1	11/03/15 06:37	11/02/15	
Copper, Total	6010C	ND U	mg/L	0.020	1	11/03/15 06:37	11/02/15	
Iron, Total	6010C	ND U	mg/L	0.10	1	11/03/15 06:37	11/02/15	
Lead, Total	6010C	ND U	mg/L	0.050	1	11/03/15 06:37	11/02/15	
Magnesium, Total	6010C	ND U	mg/L	1.0	1	11/03/15 06:37	11/02/15	
Manganese, Total	6010C	ND U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Mercury, Total	7470A	ND U	mg/L	0.00020	1	11/03/15 10:03	11/02/15	
Nickel, Total	6010C	ND U	mg/L	0.040	1	11/03/15 06:37	11/02/15	
Potassium, Total	6010C	ND U	mg/L	2.0	1	11/03/15 06:50	11/02/15	
Selenium, Total	6010C	ND U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Silver, Total	6010C	ND U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Sodium, Total	6010C	ND U	mg/L	1.0	1	11/03/15 06:50	11/02/15	
Thallium, Total	6010C	ND U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Vanadium, Total	6010C	ND U	mg/L	0.050	1	11/03/15 06:37	11/02/15	
Zinc, Total	6010C	ND U	mg/L	0.020	1	11/03/15 06:37	11/02/15	

QA/QC Report

Client: Antea USA Inc Service Request: R1509357

**Project:** Queensbury, NY/Glens Falls- Rinsate **Date Analyzed:** 10/31/15 - 11/02/15

Sample Matrix: Water

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/L Basis:NA

#### **Lab Control Sample**

R1509357-LCS1

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	0.0999	0.100	100	80-120
Cyanide, Total	9012B	0.0980	0.100	98	85-115

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls- Rinsate **Date Analyzed:** 11/02/15

Sample Matrix: Water

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/L Basis:NA

Service Request: R1509357

Lab Control Sample

R1509357-LCS2

<b>Analyte Name</b>	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	0.373	0.400	93	85-115

#### ALS Group USA, Corp.

#### dba ALS Environmental

QA/QC Report

Client: Antea USA Inc Service Request: R1509357

Project Queensbury, NY/Glens Falls- Rinsate Date Collected: 10/30/15

Sample Matrix: Water Date Received: 10/31/15

**Date Analyzed:** 10/31/15

Replicate Sample Summary

**General Chemistry Parameters** 

Sample Name: TEST-2 Units: mg/L

**Lab Code:** R1509357-002 **Basis:** NA

Duplicate Sample

R1509357-

Analysis Sample 002DUP

Analyte Name Method MRL Result Result Average RPD RPD Limit

Chromium, Hexavalent 7196A 0.010 0.015 0.015 0.0151 <1 20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

**Client:** Antea USA Inc **Service Request:** R1509357 **Project:** Queensbury, NY/Glens Falls- Rinsate **Date Collected:** 10/30/15 **Sample Matrix:** Water **Date Received:** 10/31/15 10/31/15

Date Analyzed:

**Matrix Spike Summary** Chromium, Hexavalent

**Sample Name:** TEST-2 **Units:** mg/LLab Code: R1509357-002 **Basis:** NA

**Analysis Method:** 7196A

#### **Matrix Spike** R1509357-002MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	0.015	0.115	0.100	100	85-115

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls- Rinsate

Sample Matrix: Water

**Service Request:** R1509357 **Date Analyzed:** 11/03/15

#### Lab Control Sample Summary Inorganic Parameters

Units:mg/L Basis:NA

#### **Lab Control Sample**

R1509357-LCS

<b>Analyte Name</b>	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	1.95	2.00	97	80-120
Antimony, Total	6010C	0.483	0.500	97	80-120
Arsenic, Total	6010C	0.0404	0.040	101	80-120
Barium, Total	6010C	2.03	2.00	102	80-120
Beryllium, Total	6010C	0.0472	0.0500	94	80-120
Cadmium, Total	6010C	0.0499	0.0500	100	80-120
Calcium, Total	6010C	2.03	2.0	101	80-120
Chromium, Total	6010C	0.207	0.200	103	80-120
Cobalt, Total	6010C	0.487	0.500	97	80-120
Copper, Total	6010C	0.259	0.250	104	80-120
Iron, Total	6010C	1.04	1.00	104	80-120
Lead, Total	6010C	0.494	0.500	99	80-120
Magnesium, Total	6010C	2.03	2.0	101	80-120
Manganese, Total	6010C	0.502	0.500	100	80-120
Mercury, Total	7470A	0.000974	0.00100	97	80-120
Nickel, Total	6010C	0.508	0.500	102	80-120
Potassium, Total	6010C	18.7	20.0	94	80-120
Selenium, Total	6010C	0.838	1.01	83	80-120
Silver, Total	6010C	0.0501	0.050	100	80-120
Sodium, Total	6010C	18.7	20.0	94	80-120
Thallium, Total	6010C	1.96	2.00	98	80-120
Vanadium, Total	6010C	0.484	0.500	97	80-120
Zinc, Total	6010C	0.500	0.500	100	80-120



# CHAIN OF CUSTODY/LABORAL ORY ANALYSIS REQUEST FORM

CHO Death Figure 1 S Decrease 1	STATE WHERE SAMPLES WERE COLLECTED RELINQUISHED BY	See CAPP -	- 1	<u> </u>	Metals  Cat. B Deliverable	SPECIAL INSTRUCTIONS/COMMENTS				/	TEST->	TEST-2.	NE-1	CLIENT SAMPLE ID OF	Sampler's Signature	315-552-9832		errail mark schumacher anteaproup.	5788 Widewaters Flowy Floor Syracuse, NY	Mary Schumacher	Project Name GIENS FAILS	1565 Jeff
MMSKILLA STATES OF THE STATES	ED NY RELINQUISHED BY	0 A	441 (	170 A)							5/230	1200	10-30-15 1300 4771	FOR OFFICE USE SAMPLING ONLY LAB ID DATE TIME MATRIX	Sampler's Printed Name  ARK 5CHUMACHEN	Email		Canterproup. com	or, Syracuse, NY 13214	Report CC	Project Number	1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623   +1 585 288 5380
Signature  Signature  Frinted Marke  Frim  Frim  Costal Tipig  Date/Tipig  Date/Time	Edata YB GEVEO BY	alidation Report wi		1 day 2 day 3 day (LCS, DuP, MS/MSD as required)	RUSH (SURCHARGES APPLY)  RUSH (SURCHARGES APPLY)  I. Results Only						<u></u>	×	3 X X X		GCM ° 8261 ° 8270 ° 8270 ° 8021 ° 8082 ° 8082 ° 8082 ° 8082 ° 8082 ° 8082 ° 8082 ° 8082 ° 8082 ° 8082 ° 8082 ° 8082 ° 8082 ° 8082 ° 8082 ° 8082 ° 8082	FOUNDESS OF SOME	CLP As  GO2  TAL  Tal  Solver  mus being b	Nay /		PRESERVATIVE 2 0 4	ANALYSIS REQUESTED (Include Method Number and Container Preservative)	ster, NY 14623   +1 585 288 5380 +1 585 288 8475 (fax) PAGE
R1509357 5  Anter USA Inc Guernsbury, NY © 2012 by ALS Group	RECEIVED BY	v Deta	BILL TO: ASN'LAND	° Glans Falls	INVOICE INFORMATION				f 19			7 1979			ALTERNATE DESCRIPTION	8. Other	5. Zn. Acetate 6. MeOH	3. H <sub>2</sub> SO <sub>4</sub> 4. NaOH	0. NONE 1. HCL		tainer Preservative)	1_OF



5

Antee USA Inc Queenabury, NY

### Cooler Receipt and Preservation Check Form

Project/Clie	nt Au	Eur		· · · · ·		Folder	Nur	mber_		<b>-</b>					
Cooler receive		7			@_		cou	RIER	: ALS	UPS	(EDE	Ø v	ELOCI	TY CI	LIENT
1 Were Cu	stody seals on	outsic	le of co	oler?	0	N	5a	Perc	hlorat	e samples	have re	quired	headsp	ace?	YNN
2 Custody	papers prope	rly con	pleted	(ink, s	igned)?	N	5b	Did '	VOA v	ials, Alk,	or Sulfic	le hav	e sig* b	ubbles?	Y (N) NA
3 Did all bo	ttles arrive in	good o	onditi	on (uni	oroken)? Y	N	6	Whe	re did t	he bottles	origina	te?	(AI	S/ROC	CLIENT
4 Circle: (	Vet Ice Dry	Ice (	Gel pac	ks j	present?	N	7	Soil	VOA r	eceived a	s: <b>E</b>	ūlo	Encor	e 50	35set NA
8. Temperatur	e Readings	Da	te:	9/31/1	Time:	1108	_	ID	: IR#3	(R#5)		Fro	m:(Ter	np Blan	k Sample Bottle
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If <0°C, were	e samples froz	en?	Y	N	YN	_	Ÿ	N	Y		Y	N	7		YN
If out of T	emperature,	note r	acking	/ice co	ondition:			Ice me	lted	Poor	ly Pack	ed ed		Same D	ay Rule
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5035 sample					16-002	by –	<u>(1</u>	2	on -	10/31	<u> </u>	at -	1110		
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Explain an	y discrepanci											~:~64			
pН	Reagent	Yes	No	Lot R	eceived	Exp	Sa	mple I	D	Vol.	Lot A	dded		Final	Yes=All
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PC Secondary Review:	_ Lor
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<sup>\*</sup>significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter



Service Request No:R1509579

Mr. Mark Schumacher Antea USA Inc 5788 Widewaters Pkwy Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr. Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory November 06, 2015 For your reference, these analyses have been assigned our service request number **R1509579**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes

Project Manager



#### REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.

# Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)

  The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



#### Rochester Lab ID # for State Certifications1

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <a href="http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads">http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads</a>

#### **ALS Environmental**

Client:

Antea

Service Request No.: Project:

R1509579 Glens Falls

Date Received: Sample Matrix:

11/06/15 Water

#### **CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

#### Sample Receipt

Water samples were received for analysis at ALS Environmental in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Site QC was not requested, however performed on samples, NW-1 and NE-2. All matrix spike recoveries and duplicate criteria were met.

All QC criteria were met.

#### **CASE NARRATIVE**

This report contains analytical results for the following samples: Service Request Number: R1509579

<u>Lab ID</u>	Client ID
R1509579-001	NE-2
R1509579-002	NW-1
R1509579-003	NW-2

#### Analytical Report

Client:

Antea USA Inc

Project:

Queensbury, NY/Glens Falls

Sample Matrix:

Sample Name:

Water

Lab Code:

NE-2

R1509579-001

yuçai Kepon

Service Request: R1509579

**Date Collected:** 11/05/15 12:50

Date Received: 11/06/15 07:50

Basis: NA

#### **Inorganic Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/08/15 14:46	11/07/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/08/15 14:46	11/07/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:46	11/07/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/08/15 14:46	11/07/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/08/15 14:46	11/07/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/08/15 14:46	11/07/15	
Calcium, Total	6010C	4.6	mg/L	1.0	1	11/08/15 14:46	11/07/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:46	11/07/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 14:46	11/07/15	
Copper, Total	<b>6</b> 010C	0.020 U	mg/L	0.020	11	11/08/15 14:46	11/07/15	
Iron, Total	6010C	0.64	mg/L	0.10	1	11/08/15 14:46	11/07/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 14:46	11/07/15	
Magnesium, Total	6010C	1.0	mg/L	1.0	1	11/08/15 14:46	11/07/15	
Manganese, Total	6010C	0.222	mg/L	0.010	1	11/08/15 14:46	11/07/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/09/15 08:31	11/08/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/08/15 14:46	11/07/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/09/15 09:56	11/07/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:46	11/07/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:46	11/07/15	
Sodium, Total	6010C	33.1	mg/L	1.0	1	11/09/15 09:56	11/07/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:46	11/07/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 14:46	11/07/15	
Zinc, Total	6010C	0.029	mg/L	0.020	1	11/08/15 14:46	11/07/15	

Analytical Report

Client:

Antea USA Inc

Project:

Queensbury, NY/Glens Falls

Sample Matrix:

Water

Service Request: R1509579

Date Collected: 11/05/15 12:50

Date Received: 11/06/15 07:50

Sample Name:

NE-2

Lab Code:

R1509579-001

Basis: NA

#### **General Chemistry Parameters**

Analysis

Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/06/15 09:14	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/10/15 12:13	11/09/15	

#### Analytical Report

Client:

Antea USA Inc

Project:

Queensbury, NY/Glens Falls

Sample Matrix:

Lab Code:

Water

Sample Name:

NW-1

R1509579-002

Service Request: R1509579

Date Collected: 11/05/15 13:20

Date Received: 11/06/15 07:50

Basis: NA

#### **Inorganic Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil	Date Analyzed	Date Extracted	<u>Q</u>
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/08/15 14:52	11/07/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/08/15 14:52	11/07/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:52	11/07/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/08/15 14:52	11/07/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/08/15 14:52	11/07/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/08/15 14:52	11/07/15	
Calcium, Total	6010C	4.9	mg/L	1.0	1	11/08/15 14:52	11/07/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:52	11/07/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 14:52	11/07/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/08/15 14:52	11/07/15	
Iron, Total	6010C	0.43	mg/L	0.10	1	11/08/15 14:52	11/07/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 14:52	11/07/15	
Magnesium, Total	6010C	1.1	mg/L	1.0	1	11/08/15 14:52	11/07/15	
Manganese, Total	6010C	0.215	mg/L	0.010	1	11/08/15 14:52	11/07/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/09/15 08:33	11/08/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/08/15 14:52	11/07/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/09/15 10:04	11/07/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:52	11/07/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:52	11/07/15	
Sodium, Total	6010C	33.8	mg/L	1.0	1	11/09/15 10:04	11/07/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:52	11/07/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 14:52	11/07/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/08/15 14:52	11/07/15	

Analytical Report

Client:

Antea USA Inc

Project:

Queensbury, NY/Glens Falls

Sample Matrix:

Water

Service Request: R1509579

Date Collected: 11/05/15 13:20

Date Received: 11/06/15 07:50

Sample Name:

Lab Code:

NW-1

R1509579-002

Basis: NA

#### **General Chemistry Parameters**

Analysis

Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/06/15 09:17	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/10/15 12:14	11/09/15	

#### Analytical Report

Client:

Antea USA Inc

Project:

Queensbury, NY/Glens Falls

Sample Matrix:

Water

Service Request: R1509579

Date Collected: 11/05/15 14:00

Date Received: 11/06/15 07:50

Sample Name:

NW-2

Lab Code:

R1509579-003

Basis: NA

#### **Inorganic Parameters**

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/08/15 15:21	11/07/15	<u> </u>
,			_		1			
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/08/15 15:21	11/07/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 15:21	11/07/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/08/15 15:21	11/07/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/08/15 15:21	11/07/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/08/15 15:21	11/07/15	
Calcium, Total	6010C	5.1	mg/L	1.0	1	11/08/15 15:21	11/07/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 15:21	11/07/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 15:21	11/07/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/08/15 15:21	11/07/15	
Iron, Total	6010C	0.29	mg/L	0.10	1	11/08/15 15:21	11/07/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 15:21	11/07/15	
Magnesium, Total	6010C	1.1	mg/L	1.0	1	11/08/15 15:21	11/07/15	
Manganese, Total	6010C	0.198	mg/L	0.010	1	11/08/15 15:21	11/07/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/09/15 08:34	11/08/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/08/15 15:21	11/07/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/09/15 10:38	11/07/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 15:21	11/07/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 15:21	11/07/15	
Sodium, Total	6010C	33.1	mg/L	1.0	1	11/09/15 10:38	11/07/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 15:21	11/07/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 15:21	11/07/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/08/15 15:21	11/07/15	

Analytical Report

Client:

Antea USA Inc

Project:

Queensbury, NY/Glens Fails

Sample Matrix:

Water

Service Request: R1509579

**Date Collected:** 11/05/15 14:00

Date Received: 11/06/15 07:50

Sample Name:

Lab Code:

NW-2

R1509579-003

Basis: NA

#### **General Chemistry Parameters**

Analysis

Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/06/15 09:18	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/10/15 12:15	11/09/15	

#### Analytical Report

Client:

Antea USA Inc

Project:

Queensbury, NY/Glens Falls

Sample Matrix:

Water

,, .....

Sample Name: Lab Code: Method Blank

R1509579-MB

Service Request: R1509579

Date Collected: NA

Date Received: NA

Basis: NA

#### **Inorganic Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/08/15 14:34	11/07/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/08/15 14:34	11/07/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:34	11/07/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/08/15 14:34	11/07/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/08/15 14:34	1 <u>1/07/15</u>	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/08/15 14:34	11/07/15	
Calcium, Total	6010C	1.0 U	mg/L	1.0	1	11/08/15 14:34	11/07/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:34	11/07/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 14:34	11/07/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/08/15 14:34	11/07/15	
Iron, Total	6010C	0.10 U	mg/L	0.10	1	11/08/15 14:34	11/07/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 14:34	11/07/15	
Magnesium, Total	6010C	1.0 U	mg/L	1.0	1	11/08/15 14:34	11/07/15	
Manganese, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:34	11/07/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/09/15 07:55	11/08/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/08/15 14:34	11/07/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/09/15 09:42	11/07/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:34	11/07/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:34	11/07/15	
Sodium, Total	6010C	1.0 U	mg/L	1.0	1	11/09/15 09:42	11/07/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:34	11/07/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 14:34	11/07/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/08/15 14:34	11/07/15	

Analytical Report

Client: Project: Antea USA Inc

Queensbury, NY/Glens Falls

Service Request: R1509579

Date Collected: NA

Sample Matrix:

Water

Date Received: NA

Sample Name:

ie Received. 142

Lab Code:

Method Blank R1509579-MB Basis: NA

#### **General Chemistry Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/06/15 09:12	NA	
Cyanide, Total	901 <b>2B</b>	0.010 U	mg/L	0.010	1	11/10/15 12:08	11/09/15	

QA/QC Report

Client:

Antea USA Inc

Project:

Queensbury, NY/Glens Falls

Sample Matrix:

Water

Service Request: R1509579

Date Analyzed: 11/08/15 - 11/09/15

#### Lab Control Sample Summary Inorganic Parameters

Units:mg/L Basis:NA

#### Lab Control Sample R1509579-LCS

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	1.75	2.00	87	80-120
Antimony, Total	6010C	0.448	0.500	90	80-120
Arsenic, Total	6010C	0.0353	0.040	88	80-120
Barium, Total	6010C	1.91	2.00	96	80-120
Beryllium, Total	6010C	0.0437	0.0500	87	80-120
Cadmium, Total	6010C	0.0452	0.0500	90	80-120
Calcium, Total	6010C	1.96	2.0	98	80-120
Chromium, Total	6010C	0.190	0.200	95	80-120
Cobalt, Total	6010C	0.455	0.500	91	80-120
Copper, Total	6010C	0.233	0.250	93	80-120
Iron, Total	6010C	0.932	1.00	93	80-120
Lead, Total	6010C	0.470	0.500	94	80-120
Magnesium, Total	6010C	1.77	2.0	88	80-120
Manganese, Total	6010C	0.462	0.500	92	80-120
Mercury, Total	7470A	0.000966	0.00100	97	80-120
Nickel, Total	6010C	0.472	0.500	94	80-120
Potassium, Total	6010C	18.6	20.0	93	80-120
Selenium, Total	6010C	0.855	1.01	85	80-120
Silver, Total	6010C	0.0447	0.050	89	80-120
Sodium, Total	6010C	19.3	20.0	96	80-120
Thallium, Total	6010C	1.87	2.00	93	80-120
Vanadium, Total	6010C	0.451	0.500	90	80-120
Zinc, Total	6010C	0.473	0.500	95	80-120

Superset Reference: 15-0000353529 rev 00

QA/QC Report

Client:

Antea USA Inc

Project:

Queensbury, NY/Glens Falls

Sample Matrix:

Water

Service Request: R1509579

**Date Analyzed:** 11/06/15 - 11/10/15

Lab Control Sample Summary General Chemistry Parameters

> Units:mg/L Basis:NA

#### Lab Control Sample

R1509579-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	0.0964	0.100	96	80-120
Cyanide, Total	9012B	0.102	0.100	102	85-115

Superset Reference:15-0000353529 rev 00

QA/QC Report

Client:

Antea USA Inc

Project:

Queensbury, NY/Glens Falls

Sample Matrix:

Water

Service Request: R1509579

Date Analyzed: 11/10/15

Lab Control Sample Summary **General Chemistry Parameters** 

> Units:mg/L Basis:NA

Lab Control Sample R1509579-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	0.397	0.400	99	85-115

QA/QC Report

Client:

Antea USA Inc

Project:

Queensbury, NY/Glens Falls

Sample Matrix:

Water

Service Request:R1509579

Date Collected: 11/05/15

Date Received:11/06/15

**Date Analyzed:**11/08/15 - 11/09/15

Matrix Spike Summary Inorganic Parameters

Sample Name:

NW-1

Lab Code:

R1509579-002

Units:mg/L

Basis:NA

Matrix Spike R1509579-002MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	0.10	1.78	2,00	89	75-125
Antimony, Total	6010C	0.060	0.462	0.500	92	75-125
Arsenic, Total	6010C	0.010	0.036	0.040	90	75-125
Barium, Total	6010C	0.020	1.95	2.00	97	75-125
Beryllium, Total	6010C	0.0030	0.0454	0.0500	91	75-125
Cadmium, Total	6010C	0.0050	0.0455	0.0500	91	75-125
Calcium, Total	6010C	4.9	6.4	2.0	76	75-125
Chromium, Total	6010C	0.010	0.192	0.200	96	75-125
Cobalt, Total	6010C	0.050	0.471	0.500	94	75-125
Copper, Total	6010C	0.020	0.239	0.250	95	75-125
Iron, Total	6010C	0,43	1.33	1.00	90	75-125
Lead, Total	6010C	0.050	0.479	0.500	96	75-125
Magnesium, Total	6010C	1.1	2.8	2.0	85	75-125
Manganese, Total	6010C	0.215	0.672	0.500	91	75-125
Nickel, Total	6010C	0.040	0.486	0.500	97	75-125
Potassium, Total	6010C	2.0	19.3	20.0	97	75-125
Selenium, Total	6010C	0.010	0.893	1.01	88	75-125
Silver, Total	6010C	0.010	0.045	0.050	91	75-125
Sodium, Total	6010C	33.8	50.9	20.0	86	75-125
Thallium, Total	6010C	0.010	1.85	2.00	92	75-125
Vanadium, Total	6010C	0.050	0.461	0.500	92	75-125
Zinc, Total	6010C	0.020	0.494	0.500	99	75-125

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 11/11/2015 3:44:02 PM

Superset Reference: 15-0000353529 rev 00

QA/QC Report

Client:

Antea USA Inc

Project

Queensbury, NY/Glens Falls

Sample Matrix:

Water

Service Request: R1509579

Date Collected: 11/05/15

Date Received: 11/06/15

Date Analyzed: 11/08/15 - 11/09/15

Replicate Sample Summary Inorganic Parameters

Sample Name:

NW-1

Lab Code:

R1509579-002

Units: mg/L

Basis: NA

Duplicate Sample R1509579-

			R1509579-			
Analysis		Sample	002DUP			
Method	MRL	Result	Result	Average	RPD	RPD Limit
6010C	0.10	0.10 U	0.10 U	NC	NC	20
6010C	0.060	0.060 U	0.060 U	NC	NC	20
6010C	0.010	0,010 U	0.010 U	NC	NC	20
6010C	0.020	0.020 U	0.020 U	NC	NC	20
6010C	0.0030	0.0030 U	0.0030 U	. NC	NC	20
6010C	0.0050	0.0050 U	0.0050 U	NC	NC	20
6010C	1.0	4.9	4.6	4.73	6	20
6010C	0.010	0.010 U	0.010 U	NC	NC	20
6010C	0.050	0.050 U	0.050 U	NC	NC	20
6010C	0.020	0.020 U	0.020 U	NC	NC	20
6010C	0.10	0.43	0.41	0.422	3	20
6010C	0.050	0.050 U	0.050 U	NC	NC	20
6010C	1.0	1.1	1.0	1.06	6	20
6010C	0.010	0.215	0.201	0.208	7	20
6010C	0.040	0.040 U	0.040 U	NC	NC	20
6010C	2.0	2.0 U	2.0 U	NC	NC	20
6010C	0.010	0.010 U	0.010 U	NC	NC	20
6010C	0.010	0.010 U	0.010 U	NC	NC	20
6010C	1.0	33.8	32.3	33.0	4	20
			0.010.11	NIC	NIC	20
6010C	0.010	0.010 U	_0.010 U	NC	NC	20
6010C 6010C	0.010 0.050	0.010 U 0.050 U	0.010 U	NC NC	NC NC	20 20 20
	Method 6010C	Method         MRL           6010C         0.10           6010C         0.060           6010C         0.010           6010C         0.020           6010C         0.0050           6010C         1.0           6010C         0.010           6010C         0.050           6010C         0.020           6010C         0.10           6010C         0.050           6010C         1.0           6010C         0.010           6010C         0.040           6010C         0.010           6010C         0.010           6010C         0.010           6010C         0.010           6010C         0.010           6010C         1.0	Method         MRL         Result           6010C         0.10         0.10 U           6010C         0.060         0.060 U           6010C         0.010         0.010 U           6010C         0.020         0.020 U           6010C         0.0030         0.0030 U           6010C         0.0050         0.0050 U           6010C         1.0         4.9           6010C         0.010         0.010 U           6010C         0.050         0.050 U           6010C         0.020         0.020 U           6010C         0.10         0.43           6010C         0.050         0.050 U           6010C         1.0         1.1           6010C         0.010         0.215           6010C         0.040         0.040 U           6010C         0.010         0.010 U	Method         MRL         Result         Result           6010C         0.10         0.10 U         0.10 U           6010C         0.060         0.060 U         0.060 U           6010C         0.010         0.010 U         0.010 U           6010C         0.020         0.020 U         0.020 U           6010C         0.0030         0.0030 U         0.0030 U           6010C         0.0050         0.0050 U         0.0050 U           6010C         0.010         0.010 U         0.010 U           6010C         0.050         0.050 U         0.050 U           6010C         0.020         0.020 U         0.020 U           6010C         0.10         0.43         0.41           6010C         0.050         0.050 U         0.050 U           6010C         0.050         0.050 U         0.050 U           6010C         0.010         0.215         0.201           6010C         0.040         0.040 U         0.040 U           6010C         0.040         0.040 U         0.040 U           6010C         0.010         0.010 U         0.010 U           6010C         0.010 U         0.010 U         0.010	Analysis         Sample         002DUP           Method         MRL         Result         Result         Average           6010C         0.10         0.10 U         0.10 U         NC           6010C         0.060         0.060 U         0.060 U         NC           6010C         0.010         0.010 U         0.010 U         NC           6010C         0.020         0.020 U         0.020 U         NC           6010C         0.0030         0.0030 U         0.0030 U         NC           6010C         0.0050         0.0050 U         0.0050 U         NC           6010C         0.010         0.010 U         0.010 U         NC           6010C         0.050         0.050 U         0.050 U         NC           6010C         0.020         0.020 U         0.020 U         NC           6010C         0.050         0.050 U         0.050 U         NC           6010C         0.10         0.43         0.41         0.422           6010C         0.050         0.050 U         0.050 U         NC           6010C         0.010         0.215         0.201         0.208           6010C         0.040	Analysis         Sample Method         MRL         Result         Result         Average         RPD           6010C         0.10         0.10 U         0.10 U         0.10 U         NC         NC           6010C         0.060         0.060 U         0.060 U         NC         NC           6010C         0.010         0.010 U         0.010 U         NC         NC           6010C         0.020         0.020 U         0.020 U         NC         NC           6010C         0.0030         0.0030 U         0.0030 U         NC         NC           6010C         0.0050         0.0050 U         0.0050 U         NC         NC           6010C         1.0         4.9         4.6         4.73         6           6010C         0.010         0.010 U         0.010 U         NC         NC           6010C         0.050         0.050 U         0.050 U         NC         NC           6010C         0.020         0.020 U         0.020 U         NC         NC           6010C         0.050         0.050 U         0.050 U         NC         NC           6010C         0.050         0.050 U         0.050 U         NC

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:

Antea USA Inc

Project:

Queensbury, NY/Glens Falls

Sample Matrix:

Water

Service Request:

R1509579

Date Collected:

11/05/15

Date Received:

11/06/15

Date Analyzed:

11/6/15

Matrix Spike Summary

Chromium, Hexavalent

Sample Name:

NE-2

Lab Code:

R1509579-001

Analysis Method:

7196A

**Units:** 

mg/L

Basis:

NA

Matrix Spike R1509579-001MS

Analyte NameSample ResultResultSpike Amount% Rec% Rec LimitsChromium, Hexavalent0.010 U0.1030.10010385-115

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 11/11/2015 3:43:59 PM

Superset Reference: 15-0000353529 rev 00

QA/QC Report

Client:

Antea USA Inc

**Project** 

Queensbury, NY/Glens Falls

Sample Matrix:

Water

Service Request: R1509579

**Date Collected:** 11/05/15

Date Received: 11/06/15

Date Analyzed: 11/06/15

**Replicate Sample Summary** 

**General Chemistry Parameters** 

Sample Name: Lab Code:

NE-2

R1509579-001

Units: mg/L

Basis: NA

Duplicate

Sample

R1509579-

Analysis Sample

001DUP

Method MRL Result

Result Average

**RPD** 

RPD Limit

Analyte Name Chromium, Hexavalent

7196A

0.010

0.010 U

0.010 U

NC

NC

20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Superset Reference:15-0000353529 rev 00

# ALS) Environmental

# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE

33202

Р

Preservative Key
0. NONE
1. HCL
2. HNC3
3. H2SO4
4. NaOH
6. Z. Zn. Acetate
6. M6OH
7. NaHSO4 K REMARKS/ ALTERNATE DESCRIPTION INVOICE INFORMATION 8. Other | of Glors Falls Ashland RECEIVED BY R1509579 Ante USA Inc. Queensbury, NY ANALYSIS REQUESTED (include Method Number and Container Preservative) Bilt TO: Signature IV. Data Validation Report with Raw Data 물 | REPORT REQUIREMENTS II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries RELINQUISHED BY 82/06 JUS Edata 🖊 Yes म्वापारि विवय . Results Only Q rinted Name Date/Time ignature TURNAROUND REQUIREMENTS 0250 RUSH (SURCHARGES APPLY) -2 day 🔀 3 day HEQUESTED REPORT DATE RECEIVED BY Date/Timy// PRESERVATIVE 17700 NUMBER OF CONTAINERS RELINGUISHED BY CANALIN CLUMMING Soup. Com Semples & Philed Name 13.20 WAKE MATRIX 11 | 5 | 15 | 12:50 WAYER Pare 5788 Widawaters Françada Fricacusa, NY 13214 3-day TAT e mail mark, schurnacher Bantuagroup com Samples & Philoson Name

CARCALIN CLE VOTONOS

ROE USE SAMPLING 14:00 TIME 15115 5/15 05/1 DATE \*electronic data due for analysis Data anly on due date 5 TAL LIST (EPA GOID, 7470 A) RECEIVED BY SPH-LON WY Project Number Raport CC FOR OFFICE USE ONLY LAB ID SPECIAL INSTRUCTIONS/COMMENTS
MOTALS (CO.F. B. DE INVEYABLE STATE WHERE SAMPLES WERE COLLECTED alou Al Clementer 315-552-9832 Wark Schuppacha Project Name Gleans Falls MANA Clemonens Chemorans CLIENT SAMPLE ID RELINQUISHED BY હ B.MN Second C NE-3 N N

Distribution: White - Lab Copy; Yellow - Return to Originator



### Cooler Receipt and Preservatio

R1509579

Project/Cli	ent_ <i>(X)</i>	لديرا			F	o <b>lder</b> l	Nun	nber	1166		i dalili <b>en</b> ili			( III )		
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Service Request No:R1509909

Mr. Mark Schumacher Antea USA Inc 5788 Widewaters Pkwy Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr.Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory November 14, 2015 For your reference, these analyses have been assigned our service request number **R1509909**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

Akeye

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes

**Project Manager** 

#### **CASE NARRATIVE**

This report contains analytical results for the following samples:

Service Request Number: R1509909

SAMPLE #	CLIENT SAMPLE ID	<u>DATE</u>	TIME
R1509909-001	SE-1	11/13/2015	1300
R1509909-002	SE-2	11/13/2015	1328

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.



#### REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)

  The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



#### Rochester Lab ID # for State Certifications1

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

<sup>&</sup>lt;sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <a href="http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads">http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads</a>



#### **INORGANIC PREPARATION METHODS**

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

#### Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid	9030B
Soluble	
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual	SM 4500-CN-G
Cyanide	
SM 4500-CN-E WAD	SM 4500-CN-I
Cyanide	

#### Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation
	Method
6010C	3050B
6020A	3050B
6010C TCLP (1311)	3005A/3010A
extract	
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/	DI extraction
353.2/ SM 2320B/ SM	
5210B/ 9056A Anions	

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Analytical Report

Client: Antea USA Inc Service Request: R1509909

Project: Queensbury, NY/Glens Falls Date Collected: 11/13/15 13:00

Sample Matrix: Water Date Received: 11/14/15 11:00

Sample Name: SE-1 Basis: NA

**Lab Code:** R1509909-001

#### **General Chemistry Parameters**

Analysis

Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/14/15 11:25	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/18/15 11:00	11/17/15	

#### Analytical Report

**Client:** Antea USA Inc

Service Request: R1509909 **Date Collected:** 11/13/15 13:00 **Project:** Queensbury, NY/Glens Falls

**Date Received:** 11/14/15 11:00 **Sample Matrix:** Water

Basis: NA **Sample Name:** SE-1

Lab Code: R1509909-001

#### **Inorganic Parameters**

	Analysis							
<b>Analyte Name</b>	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/17/15 08:50	11/15/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/17/15 20:38	11/15/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 08:50	11/15/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/17/15 08:50	11/15/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/17/15 08:50	11/15/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/17/15 08:50	11/15/15	
Calcium, Total	6010C	6.0	mg/L	1.0	1	11/17/15 12:49	11/15/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 12:49	11/15/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/17/15 08:50	11/15/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/17/15 08:50	11/15/15	
Iron, Total	6010C	0.60	mg/L	0.10	1	11/17/15 08:50	11/15/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/17/15 08:50	11/15/15	
Magnesium, Total	6010C	1.4	mg/L	1.0	1	11/17/15 08:50	11/15/15	
Manganese, Total	6010C	0.056	mg/L	0.010	1	11/17/15 08:50	11/15/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/18/15 11:34	11/17/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/17/15 08:50	11/15/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/17/15 12:49	11/15/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 08:50	11/15/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 08:50	11/15/15	
Sodium, Total	6010C	19.8	mg/L	1.0	1	11/17/15 12:49	11/15/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 08:50	11/15/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/17/15 08:50	11/15/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/17/15 08:50	11/15/15	

Analytical Report

Client: Antea USA Inc Service Request: R1509909

Project: Queensbury, NY/Glens Falls Date Collected: 11/13/15 13:28

Sample Matrix: Water Date Received: 11/14/15 11:00

Sample Name: SE-2 Basis: NA

**Lab Code:** R1509909-002

#### **General Chemistry Parameters**

**Analysis** 

Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/14/15 11:25	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/18/15 11:23	11/17/15	

#### Analytical Report

**Client:** Antea USA Inc

Service Request: R1509909 **Date Collected:** 11/13/15 13:28 **Project:** Queensbury, NY/Glens Falls

**Date Received:** 11/14/15 11:00 **Sample Matrix:** Water

SE-2 Basis: NA **Sample Name:** 

Lab Code: R1509909-002

#### **Inorganic Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/17/15 08:56	11/15/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/17/15 20:43	11/15/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 08:56	11/15/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/17/15 08:56	11/15/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/17/15 08:56	11/15/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/17/15 08:56	11/15/15	
Calcium, Total	6010C	6.1	mg/L	1.0	1	11/17/15 12:56	11/15/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 12:56	11/15/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/17/15 08:56	11/15/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/17/15 08:56	11/15/15	
Iron, Total	6010C	0.61	mg/L	0.10	1	11/17/15 08:56	11/15/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/17/15 08:56	11/15/15	
Magnesium, Total	6010C	1.5	mg/L	1.0	1	11/17/15 08:56	11/15/15	
Manganese, Total	6010C	0.062	mg/L	0.010	1	11/17/15 08:56	11/15/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/18/15 11:36	11/17/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/17/15 08:56	11/15/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/17/15 12:56	11/15/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 08:56	11/15/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 08:56	11/15/15	
Sodium, Total	6010C	20.1	mg/L	1.0	1	11/17/15 12:56	11/15/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 08:56	11/15/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/17/15 08:56	11/15/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/17/15 08:56	11/15/15	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509909

Project:Queensbury, NY/Glens FallsDate Collected:NASample Matrix:WaterDate Received:NA

Sample Name: Method Blank Basis: NA

**Lab Code:** R1509909-MB

#### **General Chemistry Parameters**

Analysis

<b>Analyte Name</b>	Method	Result	Units	MRL	Dil.	<b>Date Analyzed</b>	<b>Date Extracted</b>	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/14/15 11:25	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/18/15 10:49	11/17/15	

### Analytical Report

Client: Antea USA Inc Service Request: R1509909

Project:Queensbury, NY/Glens FallsDate Collected:NASample Matrix:WaterDate Received:NA

Sample Name: Method Blank Basis: NA

**Lab Code:** R1509909-MB

### **Inorganic Parameters**

Analysis Dil. **Analyte Name** Method Result Units **MRL Date Analyzed Date Extracted** O Aluminum, Total 6010C 0.10 U mg/L 0.10 11/17/15 08:33 11/15/15 Antimony, Total 6010C 0.060 U mg/L 0.060 1 11/17/15 20:20 11/15/15 Arsenic, Total 6010C 0.010 U mg/L 0.010 11/17/15 08:33 11/15/15 1 Barium, Total 6010C 0.020 U mg/L 0.020 1 11/17/15 08:33 11/15/15 Beryllium, Total 6010C 0.0030 U mg/L 0.00301 11/17/15 08:33 11/15/15 Cadmium, Total 6010C 1 0.0050 U mg/L 0.0050 11/17/15 08:33 11/15/15 1.0 U Calcium, Total 6010C mg/L 1 1.0 11/17/15 12:18 11/15/15 Chromium, Total 6010C 0.010 U mg/L 1 0.010 11/17/15 12:18 11/15/15 Cobalt, Total 6010C 0.050 U mg/L 0.050 1 11/17/15 08:33 11/15/15 Copper, Total 6010C 0.020 U mg/L 0.020 1 11/17/15 08:33 11/15/15 Iron, Total 6010C 0.10 U 0.10 1 11/17/15 08:33 11/15/15 mg/L Lead, Total 6010C 0.050 U mg/L 0.050 1 11/17/15 08:33 11/15/15 Magnesium, Total 6010C 1.0 U mg/L 1.0 1 11/17/15 08:33 11/15/15 Manganese, Total 6010C 0.010 U mg/L 0.010 1 11/17/15 08:33 11/15/15 Mercury, Total 7470A 0.00020 U mg/L 0.00020 11/17/15 1 11/18/15 11:10 Nickel, Total 6010C 0.040 U 0.040 1 11/17/15 08:33 11/15/15 mg/L Potassium, Total 1 6010C 2.0 U mg/L 2.0 11/17/15 12:18 11/15/15 Selenium, Total 0.010 U 0.010 1 6010C mg/L 11/17/15 08:33 11/15/15 Silver, Total 6010C 0.010 U mg/L 0.010 1 11/17/15 08:33 11/15/15 Sodium, Total 6010C 1.0 U mg/L 1.0 1 11/17/15 12:18 11/15/15 Thallium, Total 0.010 6010C 0.010 U mg/L 1 11/17/15 08:33 11/15/15 Vanadium, Total 6010C 0.050 U mg/L 0.050 1 11/17/15 08:33 11/15/15 Zinc, Total 6010C 0.020 U mg/L 0.020 1 11/17/15 08:33 11/15/15

### ALS Group USA, Corp.

### dba ALS Environmental

QA/QC Report

Client: Antea USA Inc Service Request: R1509909

**Project** Queensbury, NY/Glens Falls **Date Collected:** 11/13/15

**Sample Matrix:** Water **Date Received:** 11/14/15

**Date Analyzed:** 11/14/15

**Replicate Sample Summary** 

**General Chemistry Parameters** 

Sample Name: Units: mg/L SE-1

Lab Code: R1509909-001 Basis: NA

**Duplicate** 

Sample R1509909-

Sample **001DUP** 

**Analysis** Method Result RPD Limit **Analyte Name MRL** Result **RPD** Average Chromium, Hexavalent 7196A 0.010 0.010 U 0.010 U NC

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client: Antea USA Inc

Queensbury, NY/Glens Falls

Sample Matrix:

**Project:** 

Lab Code:

Water

**Service Request:** 

R1509909

**Date Collected:** 

11/13/15

**Date Received:** 

11/14/15

Date Analyzed:

11/14/15

**Matrix Spike Summary** 

Chromium, Hexavalent

Sample Name: SE-1

R1509909-001

Units:
Basis:

mg/L NA

Superset Reference:15-0000354899 rev 00

**Analysis Method:** 719

7196A

Matrix Spike

R1509909-001MS

Analyte NameSample ResultResultSpike Amount% Rec% Rec LimitsChromium, Hexavalent0.010 U0.1010.10010185-115

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

Sample Matrix: Water

Service Request: R1509909

**Date Analyzed:** 11/14/15 - 11/18/15

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/L
Basis:NA

# Lab Control Sample

R1509909-LCS1

<b>Analyte Name</b>	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	0.101	0.100	101	80-120
Cyanide, Total	9012B	0.102	0.100	102	85-115

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

Sample Matrix:

Water

Service Request: R1509909

**Date Analyzed:** 11/18/15

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/L Basis:NA

Lab Control Sample

R1509909-LCS2

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	0.395	0.400	99	85-115

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

Sample Matrix: Water

Service Request: R1509909

**Date Analyzed:** 11/18/15

Lab Control Sample Summary Inorganic Parameters

> Units:mg/L Basis:NA

**Lab Control Sample** R1509909-LCS1

<b>Analyte Name</b>	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Mercury, Total	7470A	0.000991	0.00100	99	80-120

QA/QC Report

Client: Antea USA Inc

Project: Queensbury, NY/Glens Falls Date Analyzed: 11/17/15

Sample Matrix: Water

# Duplicate Lab Control Sample Summary Inorganic Parameters

Units:mg/L Basis:NA

Service Request: R1509909

**Lab Control Sample** 

**Duplicate Lab Control Sample** 

R1509909-LCS2

R1509909-DLCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aluminum, Total	6010C	1.80	2.00	90	1.85	2.00	93	80-120	3	20
Antimony, Total	6010C	0.487	0.500	97	0.466	0.500	93	80-120	4	20
Arsenic, Total	6010C	0.0436	0.040	109	0.0463	0.040	116	80-120	6	20
Barium, Total	6010C	2.07	2.00	104	2.15	2.00	108	80-120	4	20
Beryllium, Total	6010C	0.0477	0.0500	95	0.0494	0.0500	99	80-120	4	20
Cadmium, Total	6010C	0.0500	0.0500	100	0.0519	0.0500	104	80-120	4	20
Calcium, Total	6010C	2.00	2.0	100	2.01	2.0	100	80-120	<1	20
Chromium, Total	6010C	0.209	0.200	104	0.211	0.200	105	80-120	<1	20
Cobalt, Total	6010C	0.506	0.500	101	0.522	0.500	104	80-120	3	20
Copper, Total	6010C	0.260	0.250	104	0.268	0.250	107	80-120	3	20
Iron, Total	6010C	1.05	1.00	105	1.08	1.00	108	80-120	3	20
Lead, Total	6010C	0.516	0.500	103	0.538	0.500	108	80-120	4	20
Magnesium, Total	6010C	2.02	2.0	101	2.07	2.0	104	80-120	3	20
Manganese, Total	6010C	0.513	0.500	103	0.532	0.500	106	80-120	4	20
Nickel, Total	6010C	0.523	0.500	105	0.543	0.500	109	80-120	4	20
Potassium, Total	6010C	21.0	20.0	105	21.0	20.0	105	80-120	<1	20
Selenium, Total	6010C	0.933	1.01	92	0.971	1.01	96	80-120	4	20
Silver, Total	6010C	0.0518	0.050	104	0.0538	0.050	108	80-120	4	20
Sodium, Total	6010C	21.7	20.0	109	21.3	20.0	107	80-120	2	20
Thallium, Total	6010C	1.94	2.00	97	2.02	2.00	101	80-120	4	20
Vanadium, Total	6010C	0.479	0.500	96	0.496	0.500	99	80-120	4	20
Zinc, Total	6010C	0.515	0.500	103	0.536	0.500	107	80-120	4	20

# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE

	Лime	Date/find 74/5 11-00	M72/15 1700	11/2/15 /2/06	Pate/Time [1][3]3015 0 1406 Date/
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Signature 5		WWW MINGHOUSE	waxmediuse	Sgnaint Liail Millither Son	els
RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY
	EdataYesNo			1 2	STATE WHERE SAMPLES WERE COLLECTED
Hshland	III. Results - QC and Calibration Summaries  IV Data Validation Report with Raw Data	REQUESTED REPORT DATE	; ;	in 3 day TAT ( due Wednesday 11/18/2015)	ğ !
PO# Gkns Falls	II. Results + QC Summaries (LCS, DUP, MS/MSD as required)	1 day2 day3 day4 day5 day	all analysis	Cutegory B its invertible due in normal time trame.	- electronic data dus es a
INVOICE INFORMATION	REPORT REQUIREMENTS  1. Results Only	TURNAROUND REQUIREMENTS  RUSH (SUFCHARGES APPLY)			SPECIAL INSTRUCTIONS/COMMENTS Metals
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				De la companya della companya della companya de la companya della	
				C V D	
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	X	X	3 wher	11/13/2015 1328	SE-2
	×			11/13/2015 1300	\$E-1
			TIME MATRIX	FOR OFFICE USE SAMPLING ONLY LAB ID DATE	CLIENT SAMPLE ID
REMARKS/ ALTERNATE DESCRIPTION	To He	GC/O 827/ GC O 808/ PCB O 808/ MET. (List in	NU	Sampler's Printed Name	Sampler's Signature
8. Other	comme	MS SVOA 0 0 625 VOAs 1 0 601/6 1 10 100ES 2 0 608 ALS, 701 ALS, 010	MBER (	Musk. Schumucher Cantegroup. COM	315-363·1183
5. Zn. Acetate 6. MeOH	unide come	CLP Is IOS INTS belo		<b>.</b>	
2. HNO3 3. H2SO				2 anteaproup com	email: Mark. Shumucher Cantengroup com
Preservat 0. NONE 1. HCL	/ / / /		13214	and Fleor (Anna Good), Syigax	578; Wide Waters Parkway, and Floor (Anna Group), Syraux, NY
		TIVE	PRESERVATIVE	Report CC	n
Preservative)	IED (Include Method Number and Container Preservative)	ANALYSIS REQUESTED (Inc		Project Number	Griens Falls
			-		

Distribution: White - Lab Copy; Yellow - Return to Originator

© 2012 by ALS Group

		~		<b>.</b>		F	15099	909	ס	
AL	<b>s</b> ) <sub>/ 1</sub>		$\sim$	r Receipt and	Pres	servatic A	ueensbury, NY		III III III	
Project/Clie			70	oup p	older	Number_ \		Billi 1801 inne ieur.	J	
Cooler receiv	red on 11-14-	5	_	by:	(	COURIER: A	LS UPS (	FEDEX VE	LOCITY CLI	ENT
1 Were Cu	istody seals on	outside	of co	oler?	N		_	have required h		Y N NA
2 Custody	papers proper	ly com	pleted	(ink, signed)?	N			or Sulfide have		Y N (NA
3 Did all b	ottles arrive in	good co	onditi	on (unbroken)?	N	6 Where di	d the bottles	originate?	(ALS/ROC	) CLIENT
4 Circle: (	Wet Ice Dry	Ice G	el pac	ks present?(Y)	N	7 Soil VO	received a	: Bulk	Encore 503	Sset (NA)
8. Temperatu	re Readings	Dat	e: <u> </u> }	4/15 Time: 11	1	_ ID: IF	R#3 (IR#5	From	Temp Blank	Sample Bottle
Observed T		á	14							
Correction 1		-12	<u>и</u> в-		-					1.
Corrected T Within 0-6°			(V)	N Y N		YN	YN	Y N	Y N	Y N
	re samples froz	en?		N Y N		YN	YN	YN	YN	YN
				g/ice condition:		Ice melted		ly Packed	Same Da	y Rule
				Standin		oval Client av	vare at drop	off Client no	tified by:	
All samples	s held in storag	e locat	ion:	R-002	by	TE OI	114-13	at   ] -	15	
	les placed in st				by _	or	1	at		
PC Secon	dary Review: _		D		,				311	
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Cooler Br	cakdown: Dat	te : <u>   </u>  abels c	omnl	Time: O		by:	- PULS	ES NO	_	
2.	Did all bottle la	bels an	d tags	agree with custody	papers?		Ć	😥 NO		
	Were correct co Air Samples: C			I for the tests indicat		isters Pressuriz	ad Q	NO Tedlar® Bags I		(N)3s
	ny discrepanci		s / 1 ut	Des intact	Can	ilsters i ressuriza				
pН	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH	Yes=All samples OK
≥12	NaOH	X		811/4	9116		Added		p.i.	Jumpres
≤2	HNO <sub>3</sub>									No=Samples were
<u>≤2</u> <4	H <sub>2</sub> SO <sub>4</sub> NaHSO <sub>4</sub>		<del> </del>		+-					preserved at
Residual	For CN	- /		If +, contact PM to	1					The lab as
Chlorine	Phenol and 522	X		add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).						listed
[(-)	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-	areas described	+			1		PM OK to
	ZnAcetate	-	- **					e analysis – pH separate works		Adjust:
						i recorned by		separate works	ilicci	
	HCl	**	L			_ ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	VOAS OII a	•		
	HCl numbers:		L	5-240			VOAS OII a			
Other Co	HCl numbers: mments:	077	71	5-240			VOAS OII a			
Other Co	HCl numbers: mments:	077	71	5-240			VOAS OII a			
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Other Co	HCl numbers: mments:	077	71	5-246			VOAS OII a			
Other Co	HCl numbers: mments:	077	71	5-2440			VOAS OII a			
Other Co	HCl numbers:	077	71	5-246			VOAS OII a	•		
Other Co	HCl numbers: mments:	077	71	5-2440			VOAS OII a			
Other Co	HCl numbers: mments:	077 3-24	71	5-2AAO AR		*significant air				

Page 19 of 19

P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r9.doc

9/24/15



Service Request No:R1510060

Mr. Mark Schumacher Antea USA Inc 5788 Widewaters Pkwy Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr. Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory November 19, 2015 For your reference, these analyses have been assigned our service request number R1510060.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes

Project Manager

### **CASE NARRATIVE**

This report contains analytical results for the following samples: Service Request Number: R1510060

<u>Lab ID</u>	Client ID
R1510060-001	SW-1
R1510060-002	SW-2

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.



# REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

- Correlation coefficient for MSA is <0.995.</li>
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)

  The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



### Rochester Lab ID # for State Certifications1

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <a href="http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads">http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads</a>



# **INORGANIC PREPARATION METHODS**

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

# Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid	9030B
Soluble	
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

# Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Analytical Report

Client:

Antea USA Inc

R1510060-001

**Project:** 

Queensbury, NY/Glens Falls

Sample Matrix:

Water

Sample Name: Lab Code:

SW-1

Service Request: R1510060

**Date Collected:** 11/18/15 13:00

**Date Received:** 11/19/15 07:45

Basis: NA

**General Chemistry Parameters** 

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/19/15 09:00	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/21/15 10:08	11/20/15	

Analytical Report

Client:

Antea USA Inc

Project:

Queensbury, NY/Glens Falls

Sample Matrix:

Sample Name:

Water

G \* \* \* \*

Lab Code:

SW-1 R1510060-001 Service Request: R1510060

**Date Collected:** 11/18/15 13:00

**Date Received:** 11/19/15 07:45

Basis: NA

# Inorganic Parameters

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/24/15 11:29	11/19/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/24/15 11:29	11/19/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:29	11/19/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/24/15 11:29	11/19/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/24/15 11:29	11/19/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/24/15 11:29	11/19/15	
Calcium, Total	6010C	5.9	mg/L	1.0	1	11/24/15 11:29	11/19/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:29	11/19/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/24/15 11:29	11/19/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/24/15 11:29	11/19/15	
Iron, Total	6010C	0.93	mg/L	0.10	1	11/24/15 11:29	11/19/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/24/15 11:29	11/19/15	
Magnesium, Total	6010C	1.3	mg/L	1.0	1	11/24/15 11:29	11/19/15	
Manganese, Total	6010C	0.181	mg/L	0.010	1	11/24/15 11:29	11/19/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/23/15 12:56	11/23/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/24/15 11:29	11/19/15	-
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/24/15 11:29	11/19/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:29	11/19/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:29	11/19/15	
Sodium, Total	6010C	14.2	mg/L	1.0	1	11/24/15 11:29	11/19/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:29	11/19/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/24/15 11:29	11/19/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/24/15 11:29	11/19/15	

Analytical Report

Client:

Antea USA Inc

Project:

Queensbury, NY/Glens Falls

Sample Matrix:

Water

\*\*\*\*\*\*\*

Sample Name: Lab Code: SW-2

R1510060-002

Срогі

Service Request: R1510060

**Date Collected:** 11/18/15 13:40

**Date Received:** 11/19/15 07:45

Basis: NA

# **General Chemistry Parameters**

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/19/15 09:01	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/21/15 10:10	11/20/15	

Analytical Report

Client:

Antea USA Inc

Project:

Queensbury, NY/Glens Falls

Sample Matrix:

Water

Sample Name:

Lab Code:

SW-2

R1510060-002

Service Request: R1510060

**Date Collected:** 11/18/15 13:40

**Date Received:** 11/19/15 07:45

Basis: NA

# **Inorganic Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/24/15 11:35	11/19/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/24/15 11:35	11/19/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:35	11/19/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/24/15 11:35	11/19/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/24/15 11:35	11/19/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/24/15 11:35	11/19/15	
Calcium, Total	6010C	6.1	mg/L	1.0	1	11/24/15 11:35	11/19/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:35	11/19/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/24/15 11:35	11/19/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/24/15 11:35	11/19/15	
Iron, Total	6010C	0.54	mg/L	0.10	1	11/24/15 11:35	11/19/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/24/15 11:35	11/19/15	
Magnesium, Total	6010C	1.4	mg/L	1.0	1	11/24/15 11:35	11/19/15	
Manganese, Total	6010C	0.235	mg/L	0.010	1	11/24/15 11:35	11/19/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/23/15 13:01	11/23/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/24/15 11:35	11/19/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/24/15 11:35	11/19/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:35	11/19/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:35	11/19/15	
Sodium, Total	6010C	16.0	mg/L	1.0	1	11/24/15 11:35	11/19/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:35	11/19/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/24/15 11:35	11/19/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/24/15 11:35	11/19/15	

Analytical Report

Client: Project:

Antea USA Inc

Queensbury, NY/Glens Falls

Sample Matrix:

Water

Service Request: R1510060

Date Collected: NA
Date Received: NA

Sample Name:

Method Blank

Lab Code:

R1510060-MB

Basis: NA

# **General Chemistry Parameters**

Amalusta Nama	Analysis	Dogult	Units	MRL	Dil.	Date Analyzed	Date Extracted	0
Analyte Name	Method	Result	Units	MIKL	DΠ.	Date Allalyzeu	Date Extracted	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/19/15 08:51	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/21/15 10:03	11/20/15	

### Analytical Report

Client:

Antea USA Inc

Project:

Queensbury, NY/Glens Falls

Sample Matrix:

Water

Date Collected: NA

Date Received: NA

Service Request: R1510060

Sample Name:

Basis: NA

Lab Code:

Method Blank R1510060-MB

# **Inorganic Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/24/15 11:18	11/19/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/24/15 11:18	11/19/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:18	11/19/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/24/15 11:18	11/19/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/24/15 11:18	11/19/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/24/15 11:18	11/19/15	
Calcium, Total	6010C	1.0 U	mg/L	1.0	1	11/24/15 11:18	11/19/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:18	11/19/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/24/15 11:18	11/19/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/24/15 11:18	11/19/15	
Iron, Total	6010C	0.10 U	mg/L	0.10	1	11/24/15 11:18	11/19/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/24/15 11:18	11/19/15	
Magnesium, Total	6010C	1.0 U	mg/L	1.0	1	11/24/15 11:18	11/19/15	
Manganese, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:18	11/19/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/23/15 12:35	11/23/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/24/15 11:18	11/19/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/24/15 11:18	11/19/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:18	11/19/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:18	11/19/15	
Sodium, Total	6010C	1.0 U	mg/L	1.0	1	11/24/15 11:18	11/19/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:18	11/19/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/24/15 11:18	11/19/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/24/15 11:18	11/19/15	

QA/QC Report

**Client:** 

Antea USA Inc

**Project:** 

Queensbury, NY/Glens Falls

Sample Matrix:

Water

Service Request: R1510060

**Date Analyzed:** 11/19/15 - 11/21/15

Lab Control Sample Summary **General Chemistry Parameters** 

> Units:mg/L Basis:NA

# Lab Control Sample

R1510060-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	0.0958	0.100	96	80-120
Cyanide, Total	9012B	0.0991	0.100	99	85-115

QA/QC Report

Client:

Antea USA Inc

**Project:** 

Queensbury, NY/Glens Falls

Sample Matrix:

Water

Service Request: R1510060

**Date Analyzed:** 11/21/15

Lab Control Sample Summary

**General Chemistry Parameters** 

Units:mg/L Basis:NA

Lab Control Sample

R1510060-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	0.385	0.400	96	85-115

# ALS Group USA, Corp.

### dba ALS Environmental

QA/QC Report

Client:

Antea USA Inc

Service Request: R1510060

**Project** 

Queensbury, NY/Glens Falls

**Date Collected:** 11/18/15

Sample Matrix:

Water

Date Received: 11/19/15

Date Analyzed: 11/21/15

Replicate Sample Summary **General Chemistry Parameters** 

Sample Name:

SW-1

Units: mg/L

Lab Code:

R1510060-001

Basis: NA

**Duplicate Sample** 

R1510060-

**001DUP** 

Analysis Sample Method Result **RPD** Analyte Name **MRL** Result Average **RPD** Limit Cyanide, Total 9012B 0.010 0.010 U 0.010 U NC NC 20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:

Antea USA Inc

Project:

Queensbury, NY/Glens Falls

Sample Matrix:

Water

**Service Request:** 

R1510060

**Date Collected:** 

11/18/15

Date Received:

11/19/15

Date Analyzed:
Date Extracted:

11/21/15 11/20/15

Matrix Spike Summary

Cyanide, Total

Sample Name:

SW-1

2 M - I

Units:

mg/L

Lab Code:

R1510060-001 9012B

Basis:

NA

Analysis Method: Prep Method:

Method

Matrix Spike

R1510060-001MS

Analyte NameSample ResultResultSpike Amount% Rec% Rec LimitsCyanide, Total0.010 U0.1050.10010577-119

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:

Antea USA Inc

Project:

Queensbury, NY/Glens Falls

Sample Matrix:

Water

Service Request: R1510060

**Date Analyzed:** 11/23/15 - 11/24/15

Lab Control Sample Summary Inorganic Parameters

> Units:mg/L Basis:NA

# Lab Control Sample R1510060-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	1.97	2.00	98	80-120
Antimony, Total	6010C	0.476	0.500	95	80-120
Arsenic, Total	6010C	0.0446	0.040	112	80-120
Barium, Total	6010C	2.12	2.00	106	80-120
Beryllium, Total	6010C	0.0495	0.0500	99	80-120
Cadmium, Total	6010C	0.0521	0.0500	104	80-120
Calcium, Total	6010C	2.09	2.0	104	80-120
Chromium, Total	6010C	0.210	0.200	105	80-120
Cobalt, Total	6010C	0.523	0.500	105	80-120
Copper, Total	6010C	0.266	0.250	107	80-120
Iron, Total	6010C	1.05	1.00	105	80-120
Lead, Total	6010C	0.519	0.500	104	80-120
Magnesium, Total	6010C	2.02	2.0	101	80-120
Manganese, Total	6010C	0.518	0.500	104	80-120
Mercury, Total	7470A	0.000906	0.00100	91	80-120
Nickel, Total	6010C	0.529	0.500	106	80-120
Potassium, Total	6010C	19.1	20.0	95	80-120
Selenium, Total	6010C	1.01	1.01	100	80-120
Silver, Total	6010C	0.0518	0.050	104	80-120
Sodium, Total	6010C	20.3	20.0	102	80-120
Thallium, Total	6010C	2.02	2.00	101	80-120
Vanadium, Total	6010C	0.499	0.500	100	80-120
Zinc, Total	6010C	0.524	0.500	105	80-120

QA/QC Report

Client:

Antea USA Inc

Project

Queensbury, NY/Glens Falls

Sample Matrix:

Water

Service Request: R1510060

Date Collected: 11/18/15

Date Received: 11/19/15

Date Analyzed: 11/23/15

Replicate Sample Summary

**Inorganic Parameters** 

Sample Name:

SW-1

Units: mg/L

Lab Code:

R1510060-001

Basis: NA

**Duplicate Sample** 

R1510060-

Analysis Method

Sample Result

001DUP

Result

Average

**RPD** 

**RPD** Limit

**Analyte Name** Mercury, Total

7470A

**MRL** 0.00020

0.00020 U

0.00020 U

NC

NC

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:

Antea USA Inc

**Project:** 

Queensbury, NY/Glens Falls

Sample Matrix:

Water

Service Request:

R1510060

Date Collected:
Date Received:

11/18/15 11/19/15

Date Analyzed:

11/23/15

Date Extracted:

11/23/15

**Matrix Spike Summary** 

**Inorganic Parameters** 

Sample Name:

SW-1

R1510060-001

**Units:** 

mg/L

Lab Code: Analysis Method:

7470A

Prep Method:

Method

Basis:

NA

Matrix Spike

R1510060-001MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Mercury, Total	0.00020 U	0.00103	0.00100	103	75-125

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



Project Manager

Project Name

# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

33205

5788 Widewaters Pleny, 2nd Floor, Synamise, NY STATE WHERE SAMPLES WERE COLLECTED SPECIAL INSTRUCTIONS/COMMENTS Mark Schumacher Sully Clemmers SW-B Communal Summers 315-552-9833 CLIENT SAMPLE ID RELINQUISHED BY Glens Costapry 13 deliverable due in normal time frame Electronic data due as a standard deta paukage Fals for all analysis in 3-day TAT. 1565 Jefferson Road, Building 300, Suite 360 ● Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) FOR OFFICE USE ONLY LAB ID RECEIVED BY Sampler's Printed Name Report CC Project Number umpla 11-18-15 13:00 11-18-15 DATE SAMPLING Chumnins 13:40 1324 TIME RELINQUISHED BY Mater MARKE MATRIX PRESERVATIVE NUMBER OF CONTAINERS GCMS VOAs • 8260 ° 624 ° CLP • 6270 ° 625 REQUESTED REPORT DATE TURNAROUND REQUIREMENTS \_\_\_ RUSH (SURCHARGES APPLY) GC VOAs GC VOAs \* 8021 \* 601/602 PESTICIDES \* 8082 \* 608 METAL S \_ 1 day \_ \_ 4 day -ANALYSIS REQUESTED (Include Method Number and Container Preservative) RECEIVED BY \_\_2 day 🚣 \_3 day \_\_5 day METALS, TOTAL TAL (List in comments below) Hex Chr. Topal Cylinide II. Results + QC Summaries III. Flesults + QC and Calibration
Summaries IV. Data Validation Repor (LCS, DUP, MS/MSD as required) I. Results Only REPORT REQUIREMENTS Edata 7196 RELINQUISHED BY 9012B O Yes PAGE R1510060 Anten USA Inc Queensbury, NY BILL TO: ASHIUND <sup>'</sup>읶 INVOICE INFORMATION REMARKS/ ALTERNATE DESCRIPTION Preservative Key
0. NONE
1. HCL
1. HCL
2. HNO3
3. H2SO4
4. NaOH
5. Zn. Acetate
6. MeOH
7. NaHSO4 œ Other C

SW-

Date/Time | 1 - 16 - 15

Date Fish / X/

g

Date/Time

Date/~ime

Date/Time

Printed Name

Printed Name Signature

Anta Grup

Distribution: White - Lab Copy; Yellow - Return to Originator

Printed Name

("Vernmen's

MINE SWINDING

See QAPP



# Cooler Receipt and Preservation Check Form

R1510060	5
Antea USA Inc	2012 21261 2266 1 <b>55</b> 6
Queenabury, NY	

Project/Client	lea		F	older :	Number_			······••		
Cooler received on	1/12/15	by:	e.	, (	COURIER	ALS	UPS	ŒDEX VI	ELOCITY CLI	ENT
1 Were Custody seals	on outside of	cooler?	B	N	5a Perc	hlorate	samples	have required	headspace?	Y N NA
2 Custody papers prop	erly complete	ed (ink, sign	ned)? (Y)	N	5b Did	VOA vi	als, Alk,c	or Sulfide have	sig* bubbles?	Y N NA
3 Did all bottles arrive i	n good <b>cond</b> i	tion (unbro	ken)? 🕎	N	6 Whe	re did tl	ne bottles	originate?	ALS/ROO	CLIENT
4 Circle: Wet Ice D	y Ice Gel p	acks pre	sent?	N	7 Soil	VOA re	eceived as	: Bulk	Encore 503:	5set NA
8. Temperature Readings	Date:	11/19/15	_Time:	0803	ID	: IR#3	(IR#5)	Fron	n: Temp Blank	) Sample Bottle
Observed Temp (°C)	3.	5								
Correction Factor (°C)		15			<del> </del>					
Corrected Temp (°C)		1.00				ļ.,		XZ XX	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N N
Within 0-6°C?  If <0°C, were samples from	ozen? Y	N	Y N Y N		Y N Y N	Y		Y N Y N	Y N Y N	Y N Y N
If out of Temperature		<del></del>						ly Packed	Same Day	·
&Client Approval to	·			Appro				-	otified by:	
					vai Cilci					
All samples held in store 5035 samples placed in		ion:	2-002	by _	<u>w</u>	on on	11/19/	at	0805	
PC Secondary Reviews	4	<b>2</b> /		Tan - 4 12 2						
Cooler Breakdown: D		UC-	Time: 💤	419	M € € L	A/	\ \ <i>D</i>	erésan continue y no succe		FEED NORSE CHERRY AND AND
1. Were all bottl						y: <u>/</u> *	VAIC	ES) NO	)	
<ol><li>Did all bottle</li></ol>	labels and tag	s agree wit	h custody p	apers?		•	T	E8 NO		
3. Were correct			sts indicate		.4 D	!	< <u>₹</u>	ES NO		- X774
<ol> <li>4. Air Samples: Explain any discrepan</li> </ol>		ibes intact		Cani	sters Pressi	ırızea	j	Tedlar® Bags	initiated (	N/A)
pH Reagent	Yes No	Lot Red	eived	Ехр	Sample I	D	Vol. Added	Lot Added	Final pH	Yes=All samples OK
≥12 NaOH	K	81114		09/16			714454			j sampres can
≤2 HNO <sub>3</sub>	R	Blozc	147H	10/16						No=Samples
$\leq 2$ $H_2SO_4$ $\leq 4$ $NaHSO_4$	<del>  </del>			-						were preserved at
<4 NaHSO <sub>4</sub> Residual For CN	+	If+ con	tact PM to	┼──						The lab as
Chlorine Phenol	×	add Na2	S <sub>2</sub> O <sub>3</sub> (CN),							listed
(-) and 522		ascorbic	(phenol).							
$Na_2S_2O_3$										PM OK to
ZnAcetate HCl	** **			<del> </del>				e analysis – pł separate work:		Adjust:
IICI		<u></u>		J	recorded	Uy VO	As on a s	separate work.	311001	
Bottle lot numbers:	7271	5-2AX	0,04	201	8-241	ξW.	·			
Other Comments:			•				•			
2016	ı								,	
/196 (2)	•							•		
7196 (z) 11/18/15					•					
1300-17							•			
									•	
PC Secondary Rev	iew:	Dr	/	*	significant	air bul	obles: VC	)A > 5-6 mm	: WC >1 in. dia	meter
•					•					

P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r9.doc

9/24/15



Service Request No:R1510260

Mr. Mark Schumacher Antea USA Inc 5788 Widewaters Pkwy Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr.Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory November 25, 2015 For your reference, these analyses have been assigned our service request number **R1510260**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

Akege

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes

**Project Manager** 

## **CASE NARRATIVE**

This report contains analytical results for the following samples:

Service Request Number: R1510260

SAMPLE # CLIENT SAMPLE ID DATE TIME

R1510260-001 NE FLOOR 11/24/2015 1300

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.



# REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)

  The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



### Rochester Lab ID # for State Certifications1

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

<sup>&</sup>lt;sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <a href="http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads">http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads</a>



### **INORGANIC PREPARATION METHODS**

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

# Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
60204	H MOE 2
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid	9030B
Soluble	
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual	SM 4500-CN-G
Cyanide	
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

### Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation
	Method
6010C	3050B
6020A	3050B
6010C TCLP (1311)	3005A/3010A
extract	
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/	DI extraction
353.2/ SM 2320B/ SM	
5210B/ 9056A Anions	

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Analytical Report

**Client:** Antea USA Inc

Service Request: R1510260 **Date Collected:** 11/24/15 13:00 Queensbury, NY/Glens Falls

**Project: Date Received:** 11/25/15 08:15 **Sample Matrix:** Water

Basis: NA **Sample Name:** NE FLOOR

Lab Code: R1510260-001

# **General Chemistry Parameters**

**Analysis** 

<b>Analyte Name</b>	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/25/15 11:04	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	12/02/15 10:42	12/01/15	

### Analytical Report

**Client:** Antea USA Inc

Service Request: R1510260 **Date Collected:** 11/24/15 13:00 **Project:** Queensbury, NY/Glens Falls

**Date Received:** 11/25/15 08:15 **Sample Matrix:** Water

Basis: NA **Sample Name:** NE FLOOR

Lab Code: R1510260-001

### **Inorganic Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	12/01/15 21:20	11/30/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	12/01/15 21:20	11/30/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 21:20	11/30/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	12/01/15 21:20	11/30/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	12/01/15 21:20	11/30/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	12/01/15 21:20	11/30/15	
Calcium, Total	6010C	6.6	mg/L	1.0	1	12/01/15 21:20	11/30/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 21:20	11/30/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	12/01/15 21:20	11/30/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	12/01/15 21:20	11/30/15	
Iron, Total	6010C	0.16	mg/L	0.10	1	12/01/15 21:20	11/30/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	12/01/15 21:20	11/30/15	
Magnesium, Total	6010C	1.2	mg/L	1.0	1	12/01/15 21:20	11/30/15	
Manganese, Total	6010C	0.042	mg/L	0.010	1	12/01/15 21:20	11/30/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	12/01/15 15:19	11/30/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	12/01/15 21:20	11/30/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	12/01/15 21:20	11/30/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 21:20	11/30/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 21:20	11/30/15	
Sodium, Total	6010C	15.0	mg/L	1.0	1	12/01/15 21:20	11/30/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 21:20	11/30/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	12/01/15 21:20	11/30/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	12/01/15 21:20	11/30/15	

Analytical Report

Client: Antea USA Inc

Service Request: R1510260

**Project:** Queensbury, NY/Glens Falls

Date Collected: NA

Sample Matrix: Water

Date Received: NA

**Sample Name:** 

Method Blank

Basis: NA

**Lab Code:** R1510260-MB

# **General Chemistry Parameters**

**Analysis** 

Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/25/15 11:02	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	12/02/15 10:35	12/01/15	

# Analytical Report

**Client:** Antea USA Inc

Service Request: R1510260

**Project:** Queensbury, NY/Glens Falls Water

Date Collected: NA

**Sample Matrix:** 

Date Received: NA

**Sample Name:** Method Blank Lab Code: R1510260-MB Basis: NA

# **Inorganic Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	12/01/15 20:59	11/30/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	12/01/15 20:59	11/30/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 20:59	11/30/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	12/01/15 20:59	11/30/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	12/01/15 20:59	11/30/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	12/01/15 20:59	11/30/15	
Calcium, Total	6010C	1.0 U	mg/L	1.0	1	12/01/15 20:59	11/30/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 20:59	11/30/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	12/01/15 20:59	11/30/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	12/01/15 20:59	11/30/15	
Iron, Total	6010C	0.10 U	mg/L	0.10	1	12/01/15 20:59	11/30/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	12/01/15 20:59	11/30/15	
Magnesium, Total	6010C	1.0 U	mg/L	1.0	1	12/01/15 20:59	11/30/15	
Manganese, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 20:59	11/30/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	12/01/15 15:01	11/30/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	12/01/15 20:59	11/30/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	12/01/15 20:59	11/30/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 20:59	11/30/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 20:59	11/30/15	
Sodium, Total	6010C	1.0 U	mg/L	1.0	1	12/01/15 20:59	11/30/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 20:59	11/30/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	12/01/15 20:59	11/30/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	12/01/15 20:59	11/30/15	

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

**Sample Matrix:** Water

Service Request: R1510260

**Date Analyzed:** 11/25/15 - 12/02/15

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/L Basis:NA

# **Lab Control Sample**

R1510260-LCS1

<b>Analyte Name</b>	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	0.0953	0.100	95	80-120
Cyanide, Total	9012B	0.0986	0.100	99	85-115

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

Sample Matrix: Water

**Service Request:** R1510260 **Date Analyzed:** 12/02/15

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/L Basis:NA

**Lab Control Sample** 

R1510260-LCS2

<b>Analyte Name</b>	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	0.386	0.400	97	85-115

# ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc Service Request: R1510260

Project Queensbury, NY/Glens Falls Date Collected: 11/24/15

Sample Matrix: Water Date Received: 11/25/15

**Date Analyzed:** 11/25/15

Replicate Sample Summary

**General Chemistry Parameters** 

Sample Name: NE FLOOR Units: mg/L

**Lab Code:** R1510260-001 **Basis:** NA

Duplicate Sample

R1510260-

Analysis Sample 001DUP

Analyte Name Method MRL Result Result Average RPD RPD Limit
Chromium, Hexavalent 7196A 0.010 0.010 U 0.010 U NC NC 20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

**Client:** Antea USA Inc

Queensbury, NY/Glens Falls

**Sample Matrix:** Water

**Project:** 

**Date Collected: Date Received:** 

R1510260 11/24/15

**Service Request:** 

11/25/15

Date Analyzed:

11/25/15

**Matrix Spike Summary** 

Chromium, Hexavalent

**Sample Name: NE FLOOR** Lab Code: R1510260-001 **Units: Basis:** 

mg/LNA

**Analysis Method:** 

7196A

**Matrix Spike** R1510260-001MS

Analyte Name Sample Result Spike Amount % Rec % Rec Limits Result Chromium, Hexavalent 0.010 U 0.101 0.100 101

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 12/3/2015 10:00:45 PM

Superset Reference:15-0000356484 rev 00

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

Sample Matrix: Water

Service Request: R1510260

Date Analyzed: 12/01/15

# Lab Control Sample Summary Inorganic Parameters

Units:mg/L Basis:NA

# **Lab Control Sample**

R1510260-LCS

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	2.11	2.00	106	80-120
Antimony, Total	6010C	0.570	0.500	114	80-120
Arsenic, Total	6010C	0.0449	0.040	112	80-120
Barium, Total	6010C	2.27	2.00	114	80-120
Beryllium, Total	6010C	0.0536	0.0500	107	80-120
Cadmium, Total	6010C	0.0547	0.0500	109	80-120
Calcium, Total	6010C	2.31	2.0	115	80-120
Chromium, Total	6010C	0.227	0.200	114	80-120
Cobalt, Total	6010C	0.554	0.500	111	80-120
Copper, Total	6010C	0.285	0.250	114	80-120
Iron, Total	6010C	1.10	1.00	110	80-120
Lead, Total	6010C	0.579	0.500	116	80-120
Magnesium, Total	6010C	2.06	2.0	103	80-120
Manganese, Total	6010C	0.555	0.500	111	80-120
Mercury, Total	7470A	0.000973	0.00100	97	80-120
Nickel, Total	6010C	0.563	0.500	113	80-120
Potassium, Total	6010C	20.3	20.0	101	80-120
Selenium, Total	6010C	1.11	1.01	110	80-120
Silver, Total	6010C	0.0556	0.050	111	80-120
Sodium, Total	6010C	21.6	20.0	108	80-120
Thallium, Total	6010C	2.25	2.00	113	80-120
Vanadium, Total	6010C	0.546	0.500	109	80-120
Zinc, Total	6010C	0.556	0.500	111	80-120

# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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# Cooler Receipt and Preservation Check Form



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3 Did all bo	ttles arrive in	good c	onditio	on (unt	roken)?	N	6	Wher	e did th	e bottles	origina	te?	ALS	/RÓC	CLIE	TV
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\*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

9/24/15



Service Request No:R1510352

Mr. Mark Schumacher Antea USA Inc 5788 Widewaters Pkwy Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr.Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory December 02, 2015 For your reference, these analyses have been assigned our service request number **R1510352**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

Akege

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes

**Project Manager** 

# **CASE NARRATIVE**

This report contains analytical results for the following samples:

Service Request Number: R1510352

SAMPLE #	CLIENT SAMPLE ID	<u>DATE</u>	<u>TIME</u>
R1510352-001	NW FLOOR	11/30/2015	1325
R1510352-002	SW FLOOR	12/1/2015	1310
R1510352-003	SE FLOOR	12/1/2015	1245
R1510352-004	NW FLOOR-R	12/1/2015	1325

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.



# REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)

  The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



# Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

<sup>&</sup>lt;sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <a href="http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads">http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads</a>



# **INORGANIC PREPARATION METHODS**

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

# Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid	9030B
Soluble	
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual	SM 4500-CN-G
Cyanide	
SM 4500-CN-E WAD	SM 4500-CN-I
Cyanide	

# Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation
	Method
6010C	3050B
6020A	3050B
6010C TCLP (1311)	3005A/3010A
extract	
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/	DI extraction
353.2/ SM 2320B/ SM	
5210B/ 9056A Anions	

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Analytical Report

**Client:** Antea USA Inc

**Service Request:** R1510352 **Date Collected:** 11/30/15 13:25 **Project:** Queensbury, NY/Glens Falls

**Date Received:** 12/02/15 08:00 **Sample Matrix:** Water

Basis: NA **Sample Name:** NW FLOOR

Lab Code: R1510352-001

# **General Chemistry Parameters**

Analysis

<b>Analyte Name</b>	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Cvanide, Total	9012B	0.010 U	mg/L	0.010	1	12/02/15 11:25	12/02/15	

### Analytical Report

Client: Antea USA Inc

Project: Queensbury, NY/Glens Falls Date Collected: 11/30/15 13:25

Sample Matrix: Water Date Received: 12/02/15 08:00

Sample Name: NW FLOOR Basis: NA

**Lab Code:** R1510352-001

### **Inorganic Parameters**

**Analysis** Dil. **Analyte Name** Method Result Units **MRL Date Extracted Date Analyzed** O Aluminum, Total 6010C 0.10 U mg/L 0.10 12/05/15 17:42 12/03/15 Antimony, Total 6010C 0.060 U mg/L 0.060 1 12/05/15 17:42 12/03/15 Arsenic, Total 6010C 0.010 U mg/L 0.010 1 12/05/15 17:42 12/03/15 Barium, Total 6010C 0.020 U mg/L 0.020 1 12/05/15 17:42 12/03/15 Beryllium, Total 6010C 0.0030 U mg/L 0.00301 12/05/15 17:42 12/03/15 Cadmium, Total 6010C 0.0050 1 0.0050 U mg/L 12/05/15 17:42 12/03/15 Calcium, Total 6010C 5.9 mg/L 1 12/05/15 17:42 12/03/15 1.0 Chromium, Total 6010C mg/L 1 0.010 U 0.010 12/07/15 07:15 12/03/15 Cobalt, Total 6010C 0.050 U mg/L 0.050 1 12/05/15 17:42 12/03/15 Copper, Total 6010C 0.020 U mg/L 0.020 1 12/05/15 17:42 12/03/15 Iron, Total 6010C 0.27 0.10 12/05/15 17:42 12/03/15 mg/L Lead, Total 6010C 0.071 mg/L 0.050 1 12/05/15 17:42 12/03/15 Magnesium, Total 6010C 1.2 mg/L 1.0 1 12/05/15 17:42 12/03/15 0.020 Manganese, Total 6010C mg/L 0.010 1 12/05/15 17:42 12/03/15 Mercury, Total 7470A 0.00020 U mg/L 0.00020 12/03/15 13:31 12/02/15 1 Nickel, Total 6010C 0.040 U 0.040 1 12/05/15 17:42 12/03/15 mg/L Potassium, Total 1 6010C 2.0 U mg/L 2.0 12/07/15 07:15 12/03/15 Selenium, Total 6010C 0.010 U mg/L 0.010 1 12/05/15 17:42 12/03/15 Silver, Total 6010C 0.010 U mg/L 0.010 1 12/05/15 17:42 12/03/15 Sodium, Total 6010C 5.3 mg/L 1.0 1 12/05/15 17:42 12/03/15 Thallium, Total 0.010 U 0.010 6010C mg/L 1 12/05/15 17:42 12/03/15 Vanadium, Total 6010C 0.050 U mg/L 0.050 1 12/05/15 17:42 12/03/15 Zinc, Total 6010C 0.060 mg/L 0.020 1 12/07/15 07:15 12/03/15

Service Request: R1510352

Analytical Report

**Client:** Antea USA Inc

Service Request: R1510352 **Date Collected:** 12/01/15 13:10 **Project:** Queensbury, NY/Glens Falls

**Date Received:** 12/02/15 08:00 **Sample Matrix:** Water

Basis: NA **Sample Name:** SW FLOOR

Lab Code: R1510352-002

# **General Chemistry Parameters**

Analysis

Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	12/02/15 08:39	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	12/02/15 11:27	12/02/15	

### Analytical Report

**Client:** Antea USA Inc

Service Request: R1510352 **Date Collected:** 12/01/15 13:10 **Project:** Queensbury, NY/Glens Falls

**Date Received:** 12/02/15 08:00 **Sample Matrix:** Water

Basis: NA **Sample Name:** SW FLOOR

Lab Code: R1510352-002

# **Inorganic Parameters**

	Analysis							
<b>Analyte Name</b>	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Aluminum, Total	6010C	0.12	mg/L	0.10	1	12/05/15 17:48	12/03/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	12/05/15 17:48	12/03/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:48	12/03/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	12/05/15 17:48	12/03/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	12/05/15 17:48	12/03/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	12/05/15 17:48	12/03/15	
Calcium, Total	6010C	13.4	mg/L	1.0	1	12/05/15 17:48	12/03/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	12/07/15 07:19	12/03/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	12/05/15 17:48	12/03/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	12/05/15 17:48	12/03/15	
Iron, Total	6010C	0.66	mg/L	0.10	1	12/05/15 17:48	12/03/15	
Lead, Total	6010C	0.081	mg/L	0.050	1	12/05/15 17:48	12/03/15	
Magnesium, Total	6010C	2.5	mg/L	1.0	1	12/05/15 17:48	12/03/15	
Manganese, Total	6010C	0.037	mg/L	0.010	1	12/05/15 17:48	12/03/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	12/03/15 13:33	12/02/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	12/05/15 17:48	12/03/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	12/07/15 07:19	12/03/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:48	12/03/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:48	12/03/15	
Sodium, Total	6010C	8.8	mg/L	1.0	1	12/05/15 17:48	12/03/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:48	12/03/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	12/05/15 17:48	12/03/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	12/07/15 07:19	12/03/15	

Analytical Report

**Client:** Antea USA Inc

**Date Collected:** 12/01/15 12:45 **Project:** Queensbury, NY/Glens Falls

**Sample Matrix:** Water **Date Received:** 12/02/15 08:00

Basis: NA **Sample Name:** SE FLOOR

Lab Code: R1510352-003

# **General Chemistry Parameters**

**Analysis Analyte Name** Method Result Units MRL Dil. **Date Analyzed** 

Service Request: R1510352

# Analytical Report

**Client:** Antea USA Inc

Service Request: R1510352 **Date Collected:** 12/01/15 12:45 **Project:** Queensbury, NY/Glens Falls

**Date Received:** 12/02/15 08:00 **Sample Matrix:** Water

Basis: NA **Sample Name:** SE FLOOR

Lab Code: R1510352-003

# **Inorganic Parameters**

	Analysis							
<b>Analyte Name</b>	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	12/05/15 17:53	12/03/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	12/05/15 17:53	12/03/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:53	12/03/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	12/05/15 17:53	12/03/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	12/05/15 17:53	12/03/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	12/05/15 17:53	12/03/15	
Calcium, Total	6010C	13.7	mg/L	1.0	1	12/05/15 17:53	12/03/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	12/07/15 07:22	12/03/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	12/05/15 17:53	12/03/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	12/05/15 17:53	12/03/15	
Iron, Total	6010C	0.82	mg/L	0.10	1	12/05/15 17:53	12/03/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	12/05/15 17:53	12/03/15	
Magnesium, Total	6010C	2.6	mg/L	1.0	1	12/05/15 17:53	12/03/15	
Manganese, Total	6010C	0.038	mg/L	0.010	1	12/05/15 17:53	12/03/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	12/03/15 13:35	12/02/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	12/05/15 17:53	12/03/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	12/07/15 07:22	12/03/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:53	12/03/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:53	12/03/15	
Sodium, Total	6010C	9.1	mg/L	1.0	1	12/05/15 17:53	12/03/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:53	12/03/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	12/05/15 17:53	12/03/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	12/07/15 07:22	12/03/15	

Analytical Report

Client: Antea USA Inc

**Project:** 

**Sample Matrix:** 

ntea USA Inc Service Request: R1510352

Queensbury, NY/Glens Falls

Date Collected: 12/01/15 13:25

Water

Date Received: 12/02/15 08:00

Sample Name: NW FLOOR-R Basis: NA Lab Code: R1510352-004

# **General Chemistry Parameters**

Analysis

	Allalysis						
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	12/02/15 08:43	

Analytical Report

Client: Antea USA Inc

**Service Request:** R1510352

**Project:** Queensbury, NY/Glens Falls

Date Collected: NA

Sample Matrix: Water

Date Received: NA

**Sample Name:** 

Method Blank

Basis: NA

**Lab Code:** R1510352-MB

# **General Chemistry Parameters**

**Analysis** 

Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	12/02/15 08:35	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	12/02/15 11:22	12/02/15	

### Analytical Report

**Client:** Antea USA Inc

Queensbury, NY/Glens Falls

Date Collected: NA **Project:** Date Received: NA **Sample Matrix:** Water

Basis: NA **Sample Name:** Method Blank

Lab Code: R1510352-MB

# **Inorganic Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	12/05/15 17:30	12/03/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	12/05/15 17:30	12/03/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:30	12/03/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	12/05/15 17:30	12/03/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	12/05/15 17:30	12/03/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	12/05/15 17:30	12/03/15	
Calcium, Total	6010C	1.0 U	mg/L	1.0	1	12/05/15 17:30	12/03/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	12/07/15 07:08	12/03/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	12/05/15 17:30	12/03/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	12/05/15 17:30	12/03/15	
Iron, Total	6010C	0.10 U	mg/L	0.10	1	12/05/15 17:30	12/03/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	12/05/15 17:30	12/03/15	
Magnesium, Total	6010C	1.0 U	mg/L	1.0	1	12/05/15 17:30	12/03/15	
Manganese, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:30	12/03/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	12/03/15 13:22	12/02/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	12/05/15 17:30	12/03/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	12/07/15 07:08	12/03/15	
Selenium, Total	6010C	10 U	mg/L	10	1	12/05/15 17:30	12/03/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:30	12/03/15	
Sodium, Total	6010C	1.0 U	mg/L	1.0	1	12/05/15 17:30	12/03/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:30	12/03/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	12/05/15 17:30	12/03/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	12/07/15 07:08	12/03/15	

Service Request: R1510352

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

Sample Matrix: W

Water

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/L Basis:NA

Service Request: R1510352

**Date Analyzed:** 12/02/15

# **Lab Control Sample**

R1510352-LCS1

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	0.0956	0.100	96	80-120
Cyanide, Total	9012B	0.100	0.100	100	85-115

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

Sample Matrix:

Water

Service Request: R1510352

**Date Analyzed:** 12/02/15

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/L Basis:NA

# Lab Control Sample

R1510352-LCS2

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	0.383	0.400	96	85-115

# ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc Service Request: R1510352

**Project** Queensbury, NY/Glens Falls **Date Collected:** 12/01/15

**Sample Matrix:** Water **Date Received:** 12/02/15

**Date Analyzed:** 12/02/15

**Replicate Sample Summary** 

**General Chemistry Parameters** 

Sample Name: Units: mg/L SW FLOOR

Lab Code: Basis: NA R1510352-002

0.010

**Duplicate** 

Sample

0.010 U

NC

R1510352-Sample **002DUP** 

**Analysis** Method Result RPD Limit **Analyte Name MRL** Result **RPD** Average 0.010 U

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Chromium, Hexavalent

7196A

# ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc Service Request: R1510352

**Date Collected:** 11/30/15 **Project** Queensbury, NY/Glens Falls

**Sample Matrix:** Water **Date Received:** 12/02/15

**Date Analyzed:** 12/02/15

NC

**RPD Limit** 

20

**Replicate Sample Summary General Chemistry Parameters** 

Sample Name: Units: mg/L **NW FLOOR** Lab Code: R1510352-001

0.010 U

Basis: NA

NC

**Duplicate Sample** 

0.010 U

R1510352-**Analysis** Sample **001DUP** Method **MRL** Result Result Average **RPD** 

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

**Analyte Name** 

Cyanide, Total

9012B

0.010

QA/QC Report

**Client:** Antea USA Inc

Queensbury, NY/Glens Falls

**Sample Matrix:** Water

**Analysis Method:** 

**Project:** 

**Matrix Spike Summary** Chromium, Hexavalent

**Sample Name:** SW FLOOR Lab Code: R1510352-002

7196A

**Units:** mg/L**Basis:** 

**Service Request:** 

**Date Collected:** 

**Date Received:** 

Date Analyzed:

NA

R1510352

12/01/15

12/02/15

12/2/15

**Matrix Spike** 

R1510352-002MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chromium Hexavalent	0.010 U	0.104	0.100	104	85-115

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

Sample Matrix: Water

**Service Request:** 

R1510352

**Date Collected:** 

11/30/15

**Date Received:** 

12/02/15 12/2/15

Date Analyzed: Date Extracted:

**Units:** 

**Basis:** 

12/2/15

mg/L

NA

Matrix Spike Summary

Cyanide, Total

**Sample Name:** NW FLOOR

Lab Code: Analysis Method: R1510352-001

Prep Method:

9012B Method

Matrix Spike R1510352-001MS

Analyte NameSample ResultResultSpike Amount% Rec% Rec LimitsCyanide, Total0.010 U0.0980.1009877-119

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

**Sample Matrix:** Water

Service Request: R1510352

**Date Analyzed:** 12/03/15 - 12/07/15

# Lab Control Sample Summary Inorganic Parameters

Units:mg/L Basis:NA

# **Lab Control Sample**

R1510352-LCS

<b>Analyte Name</b>	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	1.93	2.00	96	80-120
Antimony, Total	6010C	0.471	0.500	94	80-120
Arsenic, Total	6010C	0.0417	0.040	104	80-120
Barium, Total	6010C	2.13	2.00	106	80-120
Beryllium, Total	6010C	0.0489	0.0500	98	80-120
Cadmium, Total	6010C	0.0509	0.0500	102	80-120
Calcium, Total	6010C	2.10	2.0	105	80-120
Chromium, Total	6010C	0.208	0.200	104	80-120
Cobalt, Total	6010C	0.517	0.500	103	80-120
Copper, Total	6010C	0.270	0.250	108	80-120
Iron, Total	6010C	1.05	1.00	105	80-120
Lead, Total	6010C	0.519	0.500	104	80-120
Magnesium, Total	6010C	2.00	2.0	100	80-120
Manganese, Total	6010C	0.522	0.500	104	80-120
Mercury, Total	7470A	0.00103	0.00100	103	80-120
Nickel, Total	6010C	0.528	0.500	106	80-120
Potassium, Total	6010C	20.7	20.0	104	80-120
Selenium, Total	6010C	997	1010	99	80-120
Silver, Total	6010C	0.0515	0.050	103	80-120
Sodium, Total	6010C	18.7	20.0	94	80-120
Thallium, Total	6010C	2.06	2.00	103	80-120
Vanadium, Total	6010C	0.504	0.500	101	80-120
Zinc, Total	6010C	0.496	0.500	99	80-120

# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

33207

1565 Jefferson Road, Building 300, Suite 360 ● Fochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE

Project Name <u>ي.</u> ي SPECIAL INSTRUCTIONS/COMMENTS Metals STATE WHERE SAMPLES WERE COLLECTED Mark Schumacher See QAPP 3 Category is deliverable due in normal time farm. TAL LIST (EPA 10010, 7470 A) amme ( Wermone Anter Gray 1578 Wildewater PKWY, FI, SYRWIS, NY Euctronic data due as a standard data package CLIENT SAMPLE ID F BOY RELINQUISHED BY 552-9833 tals Demma Chemmens for all analysis in a 3-day TAT FOR OFFICE USE mark-sch undchere antognup Carply Chimed Name Project Numbe RECEIVED BY Report CC New 51.95 DATE YMK SAMPLING 13.25 March SHANNST CONTRACTOR TIME RELINQUISHED BY MATRIX PRESERVATIVE NUMBER OF CONTAINERS GCAMS VOAs • 8260 • 624 • CLP • 8270 • 625 • 8270 • 625 REQUESTED REPORT DATE TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) \_\_\_ 1 day \_\_\_\_\_2 day \_\_\_\_\_3 day \_\_\_\_ 4 day \_\_\_\_\_5 day GC VOAs 8021 0 601/602 ANALYSIS REQUESTED (Include Method Number and Container Preservative) PESTICIDES · 8081 · 608 RECEIVED BY Hex Chrome Ŧ Signature Printed Name 1. Results + QC Summaries Total Cyanide . IV. Data Validation Report with Raw Data , III. Results + QC and Calibration (LCS, DUP, MS/MSD as required) REPORT REQUIREMENTS Edata 796 RELINQUISHED BY 0 90/2B Yes S R1510352 BILL TO: Glens Falls usamply INVOICE INFORMATION REMARKS/ ALTERNATE DESCRIPTION ASTA TOURS RECEIVED BY Preservative Key
0. NONE
1. HCL
1. HCL
2. HNO3
3. H2SO4
4. NaOH
5. Zn. Acetate
6. MeOH
7. NaHSO4 Other. S

White - Lab Copy; Yellow - Return to Originator

20

3.56 00 100 CO

Date/Time/2

arco

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# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

33208

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE

GLENS STATE WHERE SAMPLES WERE COLLECTED Antea Group/5788 WidWatcs Flewy, 2ma MAYK SCINWMOCHER See QAPP SPECIAL INSTRUCTIONS/COMMENTS - while 315-552-9833 Electronic data due as a standard data package literapy B deliverable due in normal time frame TAL List (EPA LOIG 74704) CLIENT SAMPLE ID RELINQUISHED BY FIDA FLOOR ば Falls Clemmens Clemmens Floor-Clemmys 500 B for all analysis in a FOR CFFICE USE ONLY LAB ID Sampler's Printed Name mark schumachere armagioup Project Number RECEIVED BY Report CC 1750 TH NYW YOYK 12-1-15 17-1-15 2-1-15 2 Ü Clemmens SAMPLING KN YMMOJAK 3-day TAT 12:45 12:45 ري ا TIME RELINQUISHED BY 1 NATO レんない MATRIX 13/4×1 PRESERVATIVE NUMBER OF CONTAINERS GCAMS VOAS 0 2300 0 624 0 CLP GCAMS SVOAS 0 8270 0 625 GC VOAS GC VOAS 0 8021 0 601/602 Date/Time Signature 12 - 4 - 15 COB TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) \_ 1 day — 4 day \_\_\_\_5 day ANALYSIS REQUESTED (Include Method Number and Container Preservative) PESTICIDES ° 8081 ° 608 RECEIVED BY 2 day 🗸 3 day METALS, TOTAL TAL

(List in comments below) Sto METALS, DISSOLVED (List in comments below Hex Chrome Date/Time Printec Name Signature II. Results + QC Summaries Total Cyanide 90128 (LCS, DUP, MS/MSD as required) REPORT REQUIREMENTS IV. Data Validation Report with Raw Data III. Results + QC and Calibration Results Only Ecata RELINQUISHED BY 0 \_ \_Yes R1510352 8 Ashland 읶 GRENS FAILS INVOICE INFORMATION REMARKS/ ALTERNATE DESCRIPTION RECEIVED BY Preservative Key
0. NONE
1. HCL
2. HNO3
2. HNO3
3. N2SO4
4. NaCetate
6. MeOH
7. NaHSO4 Other

Distribution: White - Lab Copy; Yellow - Return to Originator

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# Cooler Receipt and Preservation

R1510352 5
Antea USA Inc
Queensbury, NY

Project/Clier	it_ <i>Olad</i>	tew			F	older	Nur	nber_	111111			166 11161 2				
Cooler received			_	by:_	<u>e</u>		cou	RIER:	ALS	UPS	PEDE)	VE	LOCIT	Y CLIE	ENT	
1 Were Cus	tody seals on	outsid	e of co	oler?	0	N	5a	Perch	nlorate	samples	have rec	uired l	neadspac	ce?	Y 1	N (NA)
2 Custody r	apers proper	rly com	pleted	(ink, si	gned)?	N	5b	Did V	OA vi	als, Alk,	or Sulfide	e have	sig* bul	bbles?	Υì	NA
3 Did all bot	tles arrive in	good c	onditi	on (unb	roken)?	N	б	Wher	e did th	e bottles	originat	e?	ALS	/ROC	CLIE	NT
4 Circle:	et Ice Dry	Ice C	el pa	eks p	resent?	N	7	Soil V	VOA re	ceived as	s: Bu	ılk	Encore	5035	set (	ØA>
8. Temperature	Readings	Dat	te:/2	rpp	Time:	0801	_	ID:	(R∰)	IR#5		From	: Temp	p Blank	sam	ole Bottle
Observed Ten	np (°C)		1.9	1	1.3											
Correction Fa	ctor (°C)		1.0	)°	10.5											
Corrected Ter	np (°C)		2.4	9	1.80											
Within 0-6°C	?		(Ŷ)	N	(A) N		Y	N	Y	N	Y	N	Y	N	Y	
If <0°C, were	samples froz	en?	Y	N	Y N		Y	N	Y	N	Y	N_	Y	N	Y	N
If out of Te	mperature,	note p	acking	g/ice co	ndition:			Ice mel	ted	Poor	ly Packe	ed	Sa	me Day	Rule	
&Client A	pproval to R	un Sar	nples:		Standing	g Appr	oval	Clien	t aware	at drop-	off Cl	lient no	tified by	y:		
All samples h	neld in storag	e locat	ion:		2002	by	-	D	on	12/21	/ <sub>1</sub> -	at _o	POZ			
5035 samples	•	_		n:		by _			on _	. / /		at				
PC Seconda	ary Review: _	C	AV.		<u>.</u>											
WHAT HE STATE STATES IN	ıkdown: Da	the table of the	2 FT 62 -7%	THE R. LEWIS CO., LANSING, MICH.	Time:_C	) (1)	414.74.74.14E	hy	y: <b>M</b> i	P. 1000 1 1 1011	AND THE PERSON	Cathode Wildows (Still)	- 75 /	"nahita. Histo	gwar i e che, s	A CANCELL SPRINGS
1. W	ere all bottle	labels of	comple	te (i.e. a	analysis, pres	ervatio	n, etc	)?	y	<i>)</i> #	E39	NO	_			
	d all bottle la							.,.		· 8	<b>B</b>	NO				
	ere correct co									•	ES .	NO			WA?	
	r Samples: C		s / Tub	oes Intac	t	Car	nisters	Pressu	irized	-	Γedlar®	Bags I	nflated		NA	
pH	discrepanci Reagent	Yes	No	Lot Re	eceived	Exp	Sa	mple II	D	Vol.	Lot A	dded	F	inal	Ycs=/	All
P.1	rreagent	105	1.0			'				Added			p	Н	sampl	es OK
≥12	NaOH	×		761		9/1										
≤2	HNO <sub>3</sub>	X		BOCK	HYTH	16/10	2				ļ				No=S were	amples
≤2 <4	H <sub>2</sub> SO <sub>4</sub> NaHSO <sub>4</sub>					+	+-									ved at
Residual	For CN		-	If+.co	ontact PM to	+	+				1		-		The la	
Chlorine	Phenol	X			12S2O3 (CN),										listed	
(-)	and 522			ascorb	ic (phenol).											
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-				┧								PM O	
	ZnAcetate	-	-			-	- **	Not to	be teste	ed before As on a	analysi	s – pH	tested a	and	Adjus	τ:
	HCl	**	**				_		•		separate	works.	neet			<del></del>
Bottle lot n	umbers:	ורת	C1/	no, a	252515	-2//4	160,	BDB	1614	3B						
	Bottle lot numbers: 072715-2ADD, 052515-2ADD, BDB16143B															
71961	( <sub>2</sub> )															
12/1/1																
1245-1	325															
-																
PC Secor	ndary Revi	ew:		Az			*sign	ificant	air bub	bles: VC	)A > 5 <b>-</b> 6	5 mm :	WC >1	in. diar	neter	
	•						-									





Mr. Mark Schumacher Antea USA Inc 5788 Widewaters Pkwy Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr.Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory November 05, 2015 For your reference, these analyses have been assigned our service request number **R1509522**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

Akeye

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes

**Project Manager** 

### **ALS Environmental**

Client: Antea
Service Request No.: R1509522
Project: Glens Falls
Date Received: 11/05/15
Sample Matrix: Water

### **CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

### Sample Receipt

Water samples were received for analysis at ALS Environmental in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

 $Sample\ Vessel\ 1\ was\ analyzed\ slightly\ outside\ holding\ time\ for\ Hexavalent\ Chromium\ and\ has\ been\ flagged\ with\ an$ 

Site QC was requested on Vessel 2. Accuracy and precision were acceptable for all analytes.

All remaining QC criteria were met.

# **CASE NARRATIVE**

This report contains analytical results for the following samples: Service Request Number: R1509522

<u>Lab ID</u>	Client ID
R1509522-001	Vessel 1
R1509522-002	Vessel 2
R1509522-003	DUP110415



# REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits. Under the õNotesö column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an õimmediateö hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)

  The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



# Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

<sup>&</sup>lt;sup>1</sup> Analyses were performed according to our laboratory¢s NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <a href="http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads">http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads</a>



# **INORGANIC PREPARATION METHODS**

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

# Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid	9030B
Soluble	
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual	SM 4500-CN-G
Cyanide	
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

# Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation
,	Method
6010C	3050B
6020A	3050B
6010C TCLP (1311)	3005A/3010A
extract	
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
_	
300.0 Anions/ 350.1/	DI extraction
353.2/ SM 2320B/ SM	
5210B/ 9056A Anions	

For analytical methods not listed, the preparation method is the same as the analytical method reference.

#### Analytical Report

Client: Antea USA Inc

Project: Queensbury, NY/Glens Falls Date Collected: 11/04/15 10:45

Sample Matrix: Water Date Received: 11/05/15 09:45

Sample Name: Vessel 1 Basis: NA

**Lab Code:** R1509522-001

#### **Inorganic Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/06/15 18:39	11/05/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/06/15 18:39	11/05/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 18:39	11/05/15	
Barium, Total	6010C	0.055	mg/L	0.020	1	11/06/15 18:39	11/05/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/06/15 18:39	11/05/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/06/15 18:39	11/05/15	
Calcium, Total	6010C	6.3	mg/L	1.0	1	11/06/15 18:39	11/05/15	
Chromium, Total	6010C	0.097	mg/L	0.010	1	11/06/15 18:39	11/05/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 18:39	11/05/15	
Copper, Total	6010C	0.231	mg/L	0.020	1	11/09/15 09:32	11/08/15	
Iron, Total	6010C	7.74	mg/L	0.10	1	11/06/15 18:39	11/05/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 18:39	11/05/15	
Magnesium, Total	6010C	1.4	mg/L	1.0	1	11/06/15 18:39	11/05/15	
Manganese, Total	6010C	0.143	mg/L	0.010	1	11/06/15 18:39	11/05/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/09/15 08:20	11/08/15	
Nickel, Total	6010C	0.089	mg/L	0.040	1	11/06/15 18:39	11/05/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/08/15 18:36	11/05/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 18:39	11/05/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 18:39	11/05/15	
Sodium, Total	6010C	13.5	mg/L	1.0	1	11/08/15 18:36	11/05/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 18:39	11/05/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 18:39	11/05/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/09/15 09:32	11/08/15	

Analytical Report

Client: Antea USA Inc

stea USA Inc Service Request: R1509522

Project:Queensbury, NY/Glens FallsDate Collected:11/04/15 10:45Sample Matrix:WaterDate Received:11/05/15 09:45

Sample Name: Vessel 1 Basis: NA

**Lab Code:** R1509522-001

#### **General Chemistry Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.012	mg/L	0.010	1	11/05/15 10:54	NA	*
Cvanide, Total	9012B	0.060	mg/L	0.010	1	11/06/15 13:12	11/05/15	

#### Analytical Report

Client: Antea USA Inc

Project: Queensbury, NY/Glens Falls Date Collected: 11/04/15 11:00

Sample Matrix: Water

**Date Received:** 11/05/15 09:45

Service Request: R1509522

Sample Name: Vessel 2 Basis: NA

**Lab Code:** R1509522-002

#### **Inorganic Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/06/15 18:45	11/05/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/06/15 18:45	11/05/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 18:45	11/05/15	
Barium, Total	6010C	0.032	mg/L	0.020	1	11/06/15 18:45	11/05/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/06/15 18:45	11/05/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/06/15 18:45	11/05/15	
Calcium, Total	6010C	6.6	mg/L	1.0	1	11/06/15 18:45	11/05/15	
Chromium, Total	6010C	0.096	mg/L	0.010	1	11/06/15 18:45	11/05/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 18:45	11/05/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/09/15 09:37	11/08/15	
Iron, Total	6010C	1.01	mg/L	0.10	1	11/06/15 18:45	11/05/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 18:45	11/05/15	
Magnesium, Total	6010C	1.4	mg/L	1.0	1	11/06/15 18:45	11/05/15	
Manganese, Total	6010C	0.076	mg/L	0.010	1	11/06/15 18:45	11/05/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/09/15 08:21	11/08/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/06/15 18:45	11/05/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/08/15 18:42	11/05/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 18:45	11/05/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 18:45	11/05/15	
Sodium, Total	6010C	18.9	mg/L	1.0	1	11/08/15 18:42	11/05/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 18:45	11/05/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 18:45	11/05/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/09/15 09:37	11/08/15	

Analytical Report

**Client:** Antea USA Inc

Service Request: R1509522 **Date Collected:** 11/04/15 11:00 **Project:** Queensbury, NY/Glens Falls

**Date Received:** 11/05/15 09:45 **Sample Matrix:** Water

**Sample Name:** Vessel 2 Basis: NA

Lab Code: R1509522-002

#### **General Chemistry Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.071	mg/L	0.010	1	11/05/15 10:56	NA	
Cyanide, Total	9012B	0.139	mg/L	0.010	1	11/06/15 13:13	11/05/15	

#### Analytical Report

Client: Antea USA Inc

Project: Queensbury, NY/Glens Falls Date Collected: 11/04/15 11:05

Sample Matrix: Water Date Received: 11/05/15 09:45

Sample Name: DUP110415 Basis: NA

**Lab Code:** R1509522-003

Analysis

#### **Inorganic Parameters**

	Allalysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/06/15 19:13	11/05/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/06/15 19:13	11/05/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 19:13	11/05/15	
Barium, Total	6010C	0.033	mg/L	0.020	1	11/06/15 19:13	11/05/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/06/15 19:13	11/05/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/06/15 19:13	11/05/15	
Calcium, Total	6010C	6.8	mg/L	1.0	1	11/06/15 19:13	11/05/15	
Chromium, Total	6010C	0.102	mg/L	0.010	1	11/06/15 19:13	11/05/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 19:13	11/05/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/09/15 10:06	11/08/15	
Iron, Total	6010C	0.86	mg/L	0.10	1	11/06/15 19:13	11/05/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 19:13	11/05/15	
Magnesium, Total	6010C	1.4	mg/L	1.0	1	11/06/15 19:13	11/05/15	
Manganese, Total	6010C	0.073	mg/L	0.010	1	11/06/15 19:13	11/05/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/09/15 08:26	11/08/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/06/15 19:13	11/05/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/08/15 19:24	11/05/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 19:13	11/05/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 19:13	11/05/15	
Sodium, Total	6010C	18.8	mg/L	1.0	1	11/08/15 19:24	11/05/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 19:13	11/05/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 19:13	11/05/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/09/15 10:06	11/08/15	

Analytical Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls **Date Collected:** 11/04/15 11:05

Sample Matrix: Water Date Received: 11/05/15 09:45

Sample Name: DUP110415 Basis: NA

**Lab Code:** R1509522-003

## **General Chemistry Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.068	mg/L	0.010	1	11/05/15 10:55	NA	
Cyanide, Total	9012B	0.133	mg/L	0.010	1	11/06/15 13:17	11/05/15	

#### Analytical Report

Client: Antea USA Inc

Project: Queensbury, NY/Glens Falls Date Collected: NA

Sample Matrix: Water Date Received: NA

Sample Name: Method Blank Basis: NA

**Lab Code:** R1509522-MB

## **Inorganic Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/06/15 16:09	11/05/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/06/15 16:09	11/05/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 16:09	11/05/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/06/15 16:09	11/05/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/06/15 16:09	11/05/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/06/15 16:09	11/05/15	
Calcium, Total	6010C	1.0 U	mg/L	1.0	1	11/06/15 16:09	11/05/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 16:09	11/05/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 16:09	11/05/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/09/15 09:20	11/08/15	
Iron, Total	6010C	0.10 U	mg/L	0.10	1	11/06/15 16:09	11/05/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 16:09	11/05/15	
Magnesium, Total	6010C	1.0 U	mg/L	1.0	1	11/06/15 16:09	11/05/15	
Manganese, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 16:09	11/05/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/09/15 07:55	11/08/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/06/15 16:09	11/05/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/08/15 14:31	11/05/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 16:09	11/05/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 16:09	11/05/15	
Sodium, Total	6010C	1.0 U	mg/L	1.0	1	11/08/15 14:31	11/05/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 16:09	11/05/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 16:09	11/05/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/09/15 09:20	11/08/15	

Analytical Report

Client: Antea USA Inc Service Request: R1509522

Project: Queensbury, NY/Glens Falls

Date Collected: NA

Sample Matrix: Water Date Received: NA

Sample Name: Method Blank Basis: NA

**Lab Code:** R1509522-MB

#### **General Chemistry Parameters**

**Analysis Analyte Name** Method Units MRL Dil. **Date Analyzed Date Extracted** Result Chromium, Hexavalent 7196A 0.010 U mg/L 0.010 11/05/15 10:51 NA Cyanide, Total 9012B 0.010 U mg/L0.010 1 11/06/15 12:59 11/05/15

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

Sample Matrix: Water

Service Request: R1509522

**Date Analyzed:** 11/06/15 - 11/09/15

## Lab Control Sample Summary Inorganic Parameters

Units:mg/L Basis:NA

## **Lab Control Sample**

R1509522-LCS

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	1.83	2.00	92	80-120
Antimony, Total	6010C	0.467	0.500	93	80-120
Arsenic, Total	6010C	0.0396	0.040	99	80-120
Barium, Total	6010C	2.02	2.00	101	80-120
Beryllium, Total	6010C	0.0463	0.0500	93	80-120
Cadmium, Total	6010C	0.0482	0.0500	96	80-120
Calcium, Total	6010C	1.98	2.0	99	80-120
Chromium, Total	6010C	0.203	0.200	101	80-120
Cobalt, Total	6010C	0.481	0.500	96	80-120
Copper, Total	6010C	0.269	0.250	108	80-120
Iron, Total	6010C	0.991	1.00	99	80-120
Lead, Total	6010C	0.498	0.500	100	80-120
Magnesium, Total	6010C	1.87	2.0	94	80-120
Manganese, Total	6010C	0.493	0.500	99	80-120
Mercury, Total	7470A	0.000966	0.00100	97	80-120
Nickel, Total	6010C	0.499	0.500	100	80-120
Potassium, Total	6010C	19.4	20.0	97	80-120
Selenium, Total	6010C	0.920	1.01	91	80-120
Silver, Total	6010C	0.0480	0.050	96	80-120
Sodium, Total	6010C	19.8	20.0	99	80-120
Thallium, Total	6010C	1.98	2.00	99	80-120
Vanadium, Total	6010C	0.477	0.500	95	80-120
Zinc, Total	6010C	0.509	0.500	102	80-120

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

Sample Matrix: Water

Service Request: R1509522

**Date Analyzed:** 11/05/15 - 11/06/15

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/L Basis:NA

#### **Lab Control Sample**

R1509522-LCS1

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	0.100	0.100	100	80-120
Cyanide, Total	9012B	0.101	0.100	101	85-115

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

Sample Matrix:

Water

Service Request: R1509522

**Date Analyzed:** 11/06/15

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/L Basis:NA

**Lab Control Sample** 

R1509522-LCS2

<b>Analyte Name</b>	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	0.404	0.400	101	85-115

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

**Sample Matrix:** Water

**Service Request:**R1509522 **Date Collected:**11/04/15

Date Received: 11/05/15

**Date Analyzed:**11/06/15 - 11/09/15

Matrix Spike Summary Inorganic Parameters

Sample Name: Vessel 2

**Lab Code:** R1509522-002

Units:mg/L Basis:NA

## Matrix Spike R1509522-002MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	0.10	1.74	2.00	87	75-125
Antimony, Total	6010C	0.060	0.424	0.500	85	75-125
Arsenic, Total	6010C	0.010	0.042	0.040	105	75-125
Barium, Total	6010C	0.032	1.96	2.00	96	75-125
Beryllium, Total	6010C	0.0030	0.0457	0.0500	91	75-125
Cadmium, Total	6010C	0.0050	0.0465	0.0500	93	75-125
Calcium, Total	6010C	6.6	8.6	2.0	96	75-125
Chromium, Total	6010C	0.096	0.292	0.200	98	75-125
Cobalt, Total	6010C	0.050	0.473	0.500	95	75-125
Copper, Total	6010C	0.020	0.274	0.250	110	75-125
Iron, Total	6010C	1.01	2.13	1.00	112	75-125
Lead, Total	6010C	0.050	0.477	0.500	95	75-125
Magnesium, Total	6010C	1.4	3.2	2.0	91	75-125
Manganese, Total	6010C	0.076	0.564	0.500	98	75-125
Mercury, Total	7470A	0.00020	0.00110	0.00100	110	75-125
Nickel, Total	6010C	0.040	0.492	0.500	98	75-125
Potassium, Total	6010C	2.0	20.5	20.0	102	75-125
Selenium, Total	6010C	0.010	0.898	1.01	89	75-125
Silver, Total	6010C	0.010	0.048	0.050	96	75-125
Sodium, Total	6010C	18.9	38.2	20.0	97	75-125
Thallium, Total	6010C	0.010	1.82	2.00	91	75-125
Vanadium, Total	6010C	0.050	0.467	0.500	93	75-125
Zinc, Total	6010C	0.020	0.512	0.500	102	75-125

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

## ALS Group USA, Corp.

#### dba ALS Environmental

QA/QC Report

Client: Antea USA Inc

**Project** Queensbury, NY/Glens Falls

Sample Matrix: Water

Service Request: R1509522

**Date Collected:** 11/04/15

**Date Received:** 11/05/15

**Date Analyzed:** 11/06/15 - 11/09/15

## Replicate Sample Summary Inorganic Parameters

 Sample Name:
 Vessel 2
 Units: mg/L

 Lab Code:
 R1509522-002
 Basis: NA

# Duplicate Sample

				K1509522-			
	Analysis		Sample	002DUP			
Analyte Name	Method	MRL	Result	Result	Average	RPD	<b>RPD Limit</b>
Aluminum, Total	6010C	0.10	0.10 U	0.10 U	NC	NC	20
Antimony, Total	6010C	0.060	0.060 U	0.060 U	NC	NC	20
Arsenic, Total	6010C	0.010	0.010 U	0.010 U	NC	NC	20
Barium, Total	6010C	0.020	0.032	0.032	0.0320	<1	20
Beryllium, Total	6010C	0.0030	0.0030 U	0.0030 U	NC	NC	20
Cadmium, Total	6010C	0.0050	0.0050 U	0.0050 U	NC	NC	20
Calcium, Total	6010C	1.0	6.6	6.5	6.60	1	20
Chromium, Total	6010C	0.010	0.096	0.095	0.0951	1	20
Cobalt, Total	6010C	0.050	0.050 U	0.050 U	NC	NC	20
Copper, Total	6010C	0.020	0.020 U	0.020 U	NC	NC	20
Iron, Total	6010C	0.10	1.01	1.03	1.02	3	20
Lead, Total	6010C	0.050	0.050 U	0.050 U	NC	NC	20
Magnesium, Total	6010C	1.0	1.4	1.4	1.38	1	20
Manganese, Total	6010C	0.010	0.076	0.076	0.0763	<1	20
Mercury, Total	7470A	0.00020	0.00020 U	0.00020 U	NC	NC	20
Nickel, Total	6010C	0.040	0.040 U	0.040 U	NC	NC	20
Potassium, Total	6010C	2.0	2.0 U	2.0 U	NC	NC	20
Selenium, Total	6010C	0.010	0.010 U	0.010 U	NC	NC	20
Silver, Total	6010C	0.010	0.010 U	0.010 U	NC	NC	20
Sodium, Total	6010C	1.0	18.9	18.0	18.5	5	20
Thallium, Total	6010C	0.010	0.010 U	0.010 U	NC	NC	20
Vanadium, Total	6010C	0.050	0.050 U	0.050 U	NC	NC	20
Zinc, Total	6010C	0.020	0.020 U	0.020 U	NC	NC	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

**Client:** Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

**Sample Matrix:** Water Service Request:R1509522 **Date Collected:**11/04/15

**Date Received:**11/05/15

**Date Analyzed:**11/05/15 - 11/06/15

**Matrix Spike Summary General Chemistry Parameters** 

Vessel 2 **Sample Name:** 

Lab Code:

Units:mg/L

R1509522-002

Basis:NA

**Matrix Spike** R1509522-002MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	0.071	0.171	0.100	100	85-115
Cyanide, Total	9012B	0.139	0.240	0.100	100	77-119

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

#### ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc

Service Request: R1509522

**Project** Queensbury, NY/Glens Falls

**Date Collected:** 11/04/15

**Date Received:** 11/05/15

Sample Matrix: Water

**Date Analyzed:** 11/05/15 - 11/06/15

Replicate Sample Summary General Chemistry Parameters

Sample Name: Vessel 2

Units: mg/L

**Lab Code:** R1509522-002

Basis: NA

Duplicate
Sample
R1509522-

				R1509522-			
	Analysis		Sample	002DUP			
Analyte Name	Method	MRL	Result	Result	Average	RPD	RPD Limit
Chromium, Hexavalent	7196A	0.010	0.071	0.071	0.0707	<1	20
Cyanide, Total	9012B	0.010	0.139	0.137	0.138	2	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.



# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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	204	VE	PRESERVATIVE		Report CC	Mark Schumacher
ontainer Preservative)	ANALYSIS REQUESTED (include Method Number and Container Preservative)	ANALYSIS REQUESTED (in			Project Number	Project Name GIANS FAILS



# Cooler Receipt and Preservation Check Form



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9/24/15

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AST Decommissioning Report Former CIBA-GEIGY/HERCULES Plant Site Queensbury, New York Antea Group Project No. GLENSFA151



# Appendix E

Waste Characterization Laboratory Data



THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

TestAmerica Job ID: 680-112745-1

Client Project/Site: Hercules Glens Falls AST Waste Char.

For:

Ashland Inc 5200 Blazer Parkway DS-4 Dublin, Ohio 43017

Attn: Mr. Jim Vondracek

Lathuyn Smith

Authorized for release by: 6/4/2015 1:56:53 PM

Kathryn Smith, Project Manager II (912)354-7858

kathy.smith@testamericainc.com

LINKS .....

Review your project results through

Total Access

**Have a Question?** 



Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

## **Definitions/Glossary**

Client: Ashland Inc

Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

#### **Qualifiers**

#### **GC/MS VOA**

Qualifier	Qualifier Description
-----------	-----------------------

Indicates the analyte was analyzed for but not detected.

#### **GC/MS Semi VOA**

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
U	Indicates the analyte was analyzed for but not detected.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.

#### **Metals**

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

#### **General Chemistry**

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD is outside acceptance limits.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
Н	Sample was prepped or analyzed beyond the specified holding time

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Page 2 of 38

# **Sample Summary**

Client: Ashland Inc

Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Lab Sample ID	Client Sample ID	Matrix	Collected Received
680-112745-1	PTP AST	Water	05/20/15 13:30 05/21/15 09:12
680-112745-2	Trip Blank	Water	05/20/15 00:00 05/21/15 09:12

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#### **Case Narrative**

Client: Ashland Inc

Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Job ID: 680-112745-1

**Laboratory: TestAmerica Savannah** 

**Narrative** 

CASE NARRATIVE Client: Ashland Inc

**Project: Hercules Glens Falls AST Waste Char.** 

Report Number: 680-112745-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

#### RECEIPT

The samples were received on 05/21/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.2 C.

#### **VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples PTP AST (680-112745-1) and Trip Blank (680-112745-2) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/01/2015 and 06/02/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### SEMIVOLATILE ORGANIC COMPOUNDS (AQUEOUS)

Sample PTP AST (680-112745-1) was analyzed for Semivolatile Organic Compounds (Aqueous) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 05/27/2015 and analyzed on 06/02/2015.

Several analytes recovered low for the MS/MSD of sample PTP ASTMSD (680-112745-1) in batch 680-385515. Caprolactam exceeded the RPD limit.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### METALS (ICP)

Sample PTP AST (680-112745-1) was analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/26/2015 and analyzed on 05/27/2015.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **HEXAVALENT CHROMIUM**

Sample PTP AST (680-112745-1) was analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were analyzed on 05/21/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **TOTAL MERCURY**

Sample PTP AST (680-112745-1) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 05/27/2015 and analyzed on 05/28/2015.

Sample PTP AST (680-112745-1)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **IGNITABILITY**

Sample PTP AST (680-112745-1) was analyzed for ignitability in accordance with EPA SW846 Method 1010A. The samples were analyzed

TestAmerica Savannah 6/4/2015

#### **Case Narrative**

Client: Ashland Inc

Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

#### Job ID: 680-112745-1 (Continued)

#### Laboratory: TestAmerica Savannah (Continued)

on 05/29/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **TOTAL SUSPENDED SOLIDS**

Sample PTP AST (680-112745-1) was analyzed for total suspended solids in accordance with SM 2540D. The samples were analyzed on 05/21/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **AMMONIA**

Sample PTP AST (680-112745-1) was analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 05/21/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **PHENOLS**

Sample PTP AST (680-112745-1) was analyzed for phenols in accordance with EPA Method 420.1. The samples were prepared and analyzed on 05/26/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **BIOCHEMICAL OXYGEN DEMAND**

Sample PTP AST (680-112745-1) was analyzed for Biochemical Oxygen Demand in accordance with SM 5210B. The samples were analyzed on 05/21/2015 and 05/28/2015.

Biochemical Oxygen Demand recovered low for LCS 680-384258/2 and LCSD 680-384258/3. Sample PTP AST (680-112745-1) was reanalyzed outside of holding time, both sets of data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### CHEMICAL OXYGEN DEMAND

Sample PTP AST (680-112745-1) was analyzed for chemical oxygen demand in accordance with SM 5220D. The samples were analyzed on 05/26/2015.

Sample PTP AST (680-112745-1)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **TOTAL CYANIDE**

Sample PTP AST (680-112745-1) was analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared and analyzed on 05/26/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **CORROSIVITY (PH)**

Sample PTP AST (680-112745-1) was analyzed for corrosivity (pH) in accordance with SM 4500 H+ B. The samples were analyzed on 05/23/2015.

This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. This sample(s) was performed in the laboratory outside the 15 minute timeframe.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **SULFIDE**

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#### **Case Narrative**

Client: Ashland Inc

Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Job ID: 680-112745-1 (Continued)

**Laboratory: TestAmerica Savannah (Continued)** 

Sample PTP AST (680-112745-1) was analyzed for sulfide in accordance with SM 4500 S2 F. The samples were analyzed on 05/22/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Client: Ashland Inc

Toluene-d8 (Surr)

Project/Site: Hercules Glens Falls AST Waste Char.

Lab Sample ID: 680-112745-1

Matrix: Water

Client Sample ID: PTP AST Date Collected: 05/20/15 13:30

Date Received: 05/21/15 09:12

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	14		10	7.0	ug/L			06/02/15 17:47	1
Benzene	1.0	U	1.0	0.43	ug/L			06/02/15 17:47	1
Bromoform	1.0	U	1.0	0.43	ug/L			06/02/15 17:47	1
Bromomethane	5.0	U	5.0	2.5	ug/L			06/02/15 17:47	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			06/02/15 17:47	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			06/02/15 17:47	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			06/02/15 17:47	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			06/02/15 17:47	1
Chlorodibromomethane	1.0	U	1.0	0.32	ug/L			06/02/15 17:47	1
Chloroethane	5.0	U	5.0	2.5	ug/L			06/02/15 17:47	1
Chloroform	1.0	U	1.0	0.50	ug/L			06/02/15 17:47	1
Chloromethane	1.0	U	1.0	0.40	ug/L			06/02/15 17:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			06/02/15 17:47	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			06/02/15 17:47	1
Dichlorobromomethane	1.0	U	1.0	0.44	ug/L			06/02/15 17:47	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			06/02/15 17:47	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			06/02/15 17:47	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			06/02/15 17:47	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			06/02/15 17:47	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			06/02/15 17:47	1
2-Hexanone	10	U	10	2.0	ug/L			06/02/15 17:47	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			06/02/15 17:47	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			06/02/15 17:47	1
Styrene	1.0	U	1.0	0.27	ug/L			06/02/15 17:47	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			06/02/15 17:47	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			06/02/15 17:47	1
Toluene	1.0	U	1.0	0.48	ug/L			06/02/15 17:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			06/02/15 17:47	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			06/02/15 17:47	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			06/02/15 17:47	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			06/02/15 17:47	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			06/02/15 17:47	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			06/02/15 17:47	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			06/02/15 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130					06/02/15 17:47	1
Dibromofluoromethane (Surr)	99		70 - 130					06/02/15 17:47	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130					06/02/15 17:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U F1	10	0.58	ug/L		05/27/15 15:58	06/02/15 00:27	1
2,4,5-Trichlorophenol	10	U F1	10	1.2	ug/L		05/27/15 15:58	06/02/15 00:27	1
2,4,6-Trichlorophenol	10	U	10	0.85	ug/L		05/27/15 15:58	06/02/15 00:27	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		05/27/15 15:58	06/02/15 00:27	1
2,4-Dimethylphenol	10	U	10	4.0	ug/L		05/27/15 15:58	06/02/15 00:27	1
2,4-Dinitrophenol	50	U	50	10	ug/L		05/27/15 15:58	06/02/15 00:27	1
2,4-Dinitrotoluene	10	U	10	1.2	ug/L		05/27/15 15:58	06/02/15 00:27	1

70 - 130

104

TestAmerica Savannah

6/4/2015

06/02/15 17:47

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Client: Ashland Inc

Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

**Client Sample ID: PTP AST** 

Date Collected: 05/20/15 13:30 Date Received: 05/21/15 09:12 Lab Sample ID: 680-112745-1

**Matrix: Water** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	10	U	10	0.87	ug/L		05/27/15 15:58	06/02/15 00:27	1
2-Chloronaphthalene	10	U F1	10	0.80	ug/L		05/27/15 15:58	06/02/15 00:27	1
2-Methylnaphthalene	10	U F1	10	0.78	ug/L		05/27/15 15:58	06/02/15 00:27	1
2-Methylphenol	10	U	10	0.89	ug/L		05/27/15 15:58	06/02/15 00:27	1
2-Nitroaniline	50	U	50	1.3	ug/L		05/27/15 15:58	06/02/15 00:27	1
2-Nitrophenol	10	U	10	0.76	ug/L		05/27/15 15:58	06/02/15 00:27	1
3 & 4 Methylphenol	10	U	10		ug/L		05/27/15 15:58	06/02/15 00:27	1
3,3'-Dichlorobenzidine	60	U F1	60	30	ug/L		05/27/15 15:58	06/02/15 00:27	1
3-Nitroaniline	50	U	50	5.0	ug/L		05/27/15 15:58	06/02/15 00:27	1
4,6-Dinitro-2-methylphenol	50	U	50		ug/L		05/27/15 15:58	06/02/15 00:27	1
4-Bromophenyl phenyl ether	10	U F1	10	0.77	_		05/27/15 15:58	06/02/15 00:27	1
4-Chloro-3-methylphenol	10	U	10		ug/L			06/02/15 00:27	
4-Chloroaniline	20	U	20		ug/L			06/02/15 00:27	1
4-Chlorophenyl phenyl ether		U F1	10	0.84	•			06/02/15 00:27	1
4-Nitroaniline	50	Ü	50		ug/L			06/02/15 00:27	1
Acenaphthene		U F1	10	0.76	-			06/02/15 00:27	1
Acenaphthylene		U F1	10	0.85	_			06/02/15 00:27	1
Acetophenone	10		10	0.57				06/02/15 00:27	1
Anthracene			10		ug/L			06/02/15 00:27	1
Benzo[a]anthracene		U F1	10	0.55				06/02/15 00:27	1
Benzo[a]pyrene		U F1	10	0.71	ug/L			06/02/15 00:27	1
Benzo[b]fluoranthene		U F1	10		ug/L			06/02/15 00:27	
Benzo[g,h,i]perylene		U F1	10	0.87	•			06/02/15 00:27	1
Benzo[k]fluoranthene		U F1	10		ug/L			06/02/15 00:27	············ 1
Bis(2-chloroethoxy)methane	10		10	0.94	-			06/02/15 00:27	1
Bis(2-chloroethyl)ether	10		10		ug/L			06/02/15 00:27	1
Bis(2-ethylhexyl) phthalate		U F1	10		ug/L			06/02/15 00:27	
Chrysene		U F1	10	0.51	•			06/02/15 00:27	1
Dibenz(a,h)anthracene		U F1	10		ug/L ug/L		05/27/15 15:58		1
Dibenzofuran		U F1	10		ug/L ug/L		05/27/15 15:58	06/02/15 00:27	· · · · · · · · · · · · · · · · · · ·
		U F1	10		•		05/27/15 15:58	06/02/15 00:27	1
Di-n-butyl phthalate Diethyl phthalate		U F1	10		ug/L ug/L		05/27/15 15:58		1
					-				
Dimethyl phthalate	10		10		ug/L			06/02/15 00:27	1
Di-n-octyl phthalate		U F1	10		ug/L				1
Fluoranthene		U F1	10	0.74				06/02/15 00:27	1
Fluorene		U F1	10	0.96	J			06/02/15 00:27	1
Hexachlorobenzene		U F1	10	0.79	-			06/02/15 00:27	1
Hexachlorobutadiene		U F1	10	0.62	-			06/02/15 00:27	1
Hexachlorocyclopentadiene		U F1	10		ug/L			06/02/15 00:27	1
Hexachloroethane	10		10	0.76	•			06/02/15 00:27	1
Indeno[1,2,3-cd]pyrene		U F1	10		ug/L			06/02/15 00:27	1
Isophorone	10		10	0.90				06/02/15 00:27	1
Naphthalene	10		10	0.70	-			06/02/15 00:27	1
Nitrobenzene	10		10	0.73				06/02/15 00:27	1
N-Nitrosodiphenylamine	10		10	0.92				06/02/15 00:27	1
N-Nitrosodi-n-propylamine	10		10	0.72	-			06/02/15 00:27	1
Pentachlorophenol	50		50		ug/L			06/02/15 00:27	1
Phenanthrene		U F1	10	0.77	-			06/02/15 00:27	1
Phenol	10	U	10	0.83	ug/L		05/27/15 15:58	06/02/15 00:27	1

TestAmerica Savannah

6/4/2015

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Client: Ashland Inc

**Client Sample ID: PTP AST** 

Date Collected: 05/20/15 13:30

Date Received: 05/21/15 09:12

Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Lab Sample ID: 680-112745-1

**Matrix: Water** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	10	U F1	10	0.63	ug/L		05/27/15 15:58	06/02/15 00:27	1
Butyl benzyl phthalate	10	U F1	10	1.2	ug/L		05/27/15 15:58	06/02/15 00:27	1
bis (2-chloroisopropyl) ether	10	U	10	0.78	ug/L		05/27/15 15:58	06/02/15 00:27	1
Carbazole	10	U	10	0.71	ug/L		05/27/15 15:58	06/02/15 00:27	1
2,6-Dinitrotoluene	10	U	10	1.1	ug/L		05/27/15 15:58	06/02/15 00:27	1
4-Nitrophenol	50	U	50	1.9	ug/L		05/27/15 15:58	06/02/15 00:27	1
Atrazine	10	U	10	1.2	ug/L		05/27/15 15:58	06/02/15 00:27	1
Benzaldehyde	10	U	10	1.1	ug/L		05/27/15 15:58	06/02/15 00:27	1
Caprolactam	10	U F2	10	0.79	ug/L		05/27/15 15:58	06/02/15 00:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	59		39 - 124				05/27/15 15:58	06/02/15 00:27	1
2-Fluorobiphenyl	49		32 - 113				05/27/15 15:58	06/02/15 00:27	1
2-Fluorophenol (Surr)	52		26 - 109				05/27/15 15:58	06/02/15 00:27	1
Terphenyl-d14 (Surr)	21		10 - 126				05/27/15 15:58	06/02/15 00:27	1
Phenol-d5 (Surr)	53		27 - 110				05/27/15 15:58	06/02/15 00:27	1
Nitrobenzene-d5 (Surr)	62		32 - 118				05/27/15 15:58	06/02/15 00:27	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	60000		200	100	ug/L		05/26/15 10:40	05/27/15 15:23	1
Antimony	53		20	5.3	ug/L		05/26/15 10:40	05/27/15 15:23	1
Arsenic	41		20	4.6	ug/L		05/26/15 10:40	05/27/15 15:23	1
Barium	5500		10	2.3	ug/L		05/26/15 10:40	05/27/15 15:23	1
Beryllium	1.8	J	4.0	0.20	ug/L		05/26/15 10:40	05/27/15 15:23	1
Cadmium	170		5.0	2.0	ug/L		05/26/15 10:40	05/27/15 15:23	1
Calcium	600000		500	96	ug/L		05/26/15 10:40	05/27/15 15:23	1
Chromium	12000		10	1.2	ug/L		05/26/15 10:40	05/27/15 15:23	1
Cobalt	150		10	0.95	ug/L		05/26/15 10:40	05/27/15 15:23	1
Copper	380		20	1.9	ug/L		05/26/15 10:40	05/27/15 15:23	1
Iron	230000		100	50	ug/L		05/26/15 10:40	05/27/15 15:23	1
Lead	1300		10	4.0	ug/L		05/26/15 10:40	05/27/15 15:23	1
Magnesium	35000		500	9.9	ug/L		05/26/15 10:40	05/27/15 15:23	1
Manganese	3400		10	2.0	ug/L		05/26/15 10:40	05/27/15 15:23	1
Nickel	560		40	2.3	ug/L		05/26/15 10:40	05/27/15 15:23	1
Potassium	9000		1000	22	ug/L		05/26/15 10:40	05/27/15 15:23	1
Selenium	12	J	20	6.4	ug/L		05/26/15 10:40	05/27/15 15:23	1
Silver	6.3	J	10	0.89	ug/L		05/26/15 10:40	05/27/15 15:23	1
Sodium	2400		1000	500	ug/L		05/26/15 10:40	05/27/15 15:23	1
Thallium	25	U	25	8.8	ug/L		05/26/15 10:40	05/27/15 15:23	1
Vanadium	3600		10	2.4	ug/L		05/26/15 10:40	05/27/15 15:23	1
Zinc	2100		20	8.7	ug/L		05/26/15 10:40	05/27/15 15:23	1

Method: 7470A - Mercury (CVAA) Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	12		2.0	0.80	ug/L		05/27/15 13:49	05/28/15 09:34	10
General Chemistry Analyte pH	Result	Qualifier HF	NONE	NONE	Unit SU	<u>D</u>	Prepared	Analyzed 05/23/15 07:56	Dil Fac

TestAmerica Savannah

6/4/2015

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Client: Ashland Inc

Date Received: 05/21/15 09:12

TestAmerica Job ID: 680-112745-1

Project/Site: Hercules Glens Falls AST Waste Char.

**Client Sample ID: PTP AST** 

Lab Sample ID: 680-112745-1 Date Collected: 05/20/15 13:30

**Matrix: Water** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.25	U	0.25	0.10	mg/L			05/21/15 14:22	1
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L		05/26/15 11:05	05/26/15 15:11	1
Chemical Oxygen Demand	160		20	10	mg/L			05/26/15 13:00	2
Chromium, hexavalent	0.010	U	0.010	0.0030	mg/L			05/21/15 12:14	1
Cyanide, Total	0.040		0.010	0.0050	mg/L		05/26/15 07:30	05/26/15 12:32	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>200		1.00	1.00	Degrees F			05/29/15 09:00	1
<b>Total Suspended Solids</b>	2200		42	42	mg/L			05/21/15 12:47	1
Sulfide	1.0	U	1.0	1.0	mg/L			05/22/15 11:15	1
<b>Biochemical Oxygen Demand</b>	120	*	2.0	2.0	mg/L			05/21/15 16:42	1
Biochemical Oxygen Demand	47	H	2.0	2.0	mg/L			05/28/15 18:46	1

Client: Ashland Inc

Trichloroethene

Vinyl chloride

Xylenes, Total

Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Lab Sample ID: 680-112745-2

**Matrix: Water** 

Dil Fac

1

Client Sample ID: Trip Blank Date Collected: 05/20/15 00:00

Date Received: 05/21/15 09:12

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Acetone	10	U	10	7.0	ug/L			06/01/15 15:00
Benzene	1.0	U	1.0	0.43	ug/L			06/01/15 15:00
Bromoform	1.0	U	1.0	0.43	ug/L			06/01/15 15:00
Bromomethane	5.0	U	5.0	2.5	ug/L			06/01/15 15:00
2-Butanone (MEK)	10	U	10	3.4	ug/L			06/01/15 15:00
Carbon disulfide	2.0	U	2.0	1.0	ug/L			06/01/15 15:00
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			06/01/15 15:00
Chlorobenzene	1.0	U	1.0	0.26	ug/L			06/01/15 15:00
Chlorodibromomethane	1.0	U	1.0	0.32	ug/L			06/01/15 15:00
Chloroethane	5.0	U	5.0	2.5	ug/L			06/01/15 15:00
Chloroform	1.0	U	1.0	0.50	ug/L			06/01/15 15:00
Chloromethane	1.0	U	1.0	0.40	ug/L			06/01/15 15:00
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			06/01/15 15:00
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			06/01/15 15:00
Dichlorobromomethane	1.0	U	1.0	0.44	ug/L			06/01/15 15:00
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			06/01/15 15:00
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			06/01/15 15:00
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			06/01/15 15:00
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			06/01/15 15:00
Ethylbenzene	1.0	U	1.0	0.33	ug/L			06/01/15 15:00
2-Hexanone	10	U	10	2.0	ug/L			06/01/15 15:00
Methylene Chloride	5.0	U	5.0	2.5	ug/L			06/01/15 15:00
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			06/01/15 15:00
Styrene	1.0	U	1.0	0.27	ug/L			06/01/15 15:00
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			06/01/15 15:00
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			06/01/15 15:00
Toluene	1.0	U	1.0	0.48	ug/L			06/01/15 15:00
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			06/01/15 15:00
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			06/01/15 15:00
1,1,1-Trichloroethane	1.0	U	1.0	0.37	-			06/01/15 15:00
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			06/01/15 15:00

1.0 U

1.0 U

1.0 U

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102	70 - 130		06/01/15 15:00	1
Dibromofluoromethane (Surr)	98	70 - 130		06/01/15 15:00	1
1,2-Dichloroethane-d4 (Surr)	102	70 - 130		06/01/15 15:00	1
Toluene-d8 (Surr)	104	70 - 130		06/01/15 15:00	1

1.0

1.0

1.0

0.48 ug/L

0.50 ug/L

0.23 ug/L

5

7

9

10

1

1

1

15

06/01/15 15:00

06/01/15 15:00

06/01/15 15:00

Project/Site: Hercules Glens Falls AST Waste Char.

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-385402/9 **Matrix: Water** 

Analysis Batch: 385402

Client: Ashland Inc

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			06/01/15 10:25	1
Benzene	1.0	U	1.0	0.43	ug/L			06/01/15 10:25	1
Bromoform	1.0	U	1.0	0.43	ug/L			06/01/15 10:25	1
Bromomethane	5.0	U	5.0	2.5	ug/L			06/01/15 10:25	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			06/01/15 10:25	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			06/01/15 10:25	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			06/01/15 10:25	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			06/01/15 10:25	1
Chlorodibromomethane	1.0	U	1.0	0.32	ug/L			06/01/15 10:25	1
Chloroethane	5.0	U	5.0	2.5	ug/L			06/01/15 10:25	1
Chloroform	1.0	U	1.0	0.50	ug/L			06/01/15 10:25	1
Chloromethane	1.0	U	1.0	0.40	ug/L			06/01/15 10:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			06/01/15 10:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			06/01/15 10:25	1
Dichlorobromomethane	1.0	U	1.0	0.44	ug/L			06/01/15 10:25	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			06/01/15 10:25	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			06/01/15 10:25	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			06/01/15 10:25	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			06/01/15 10:25	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			06/01/15 10:25	1
2-Hexanone	10	U	10	2.0	ug/L			06/01/15 10:25	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			06/01/15 10:25	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			06/01/15 10:25	1
Styrene	1.0	U	1.0	0.27	ug/L			06/01/15 10:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			06/01/15 10:25	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			06/01/15 10:25	1
Toluene	1.0	U	1.0	0.48	ug/L			06/01/15 10:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			06/01/15 10:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			06/01/15 10:25	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			06/01/15 10:25	1
1,1,2-Trichloroethane	1.0	Ü	1.0	0.33	ug/L			06/01/15 10:25	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			06/01/15 10:25	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			06/01/15 10:25	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			06/01/15 10:25	1

	MB MB					
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102	70 - 130		06/01/15 10:25	1	
Dibromofluoromethane (Surr)	98	70 - 130		06/01/15 10:25	1	
1,2-Dichloroethane-d4 (Surr)	101	70 - 130		06/01/15 10:25	1	
Toluene-d8 (Surr)	102	70 - 130		06/01/15 10:25	1	

Lab Sample ID: LCS 680-385402/4

**Matrix: Water** 

**Analysis Batch: 385402** 

•	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Acetone	250	280		ug/L		112	60 - 154	
Renzene	50.0	51.0		ua/l		102	73 _ 131	

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**Prep Type: Total/NA** 

**Client Sample ID: Lab Control Sample** 

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Project/Site: Hercules Glens Falls AST Waste Char.

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-385402/4

**Matrix: Water** 

Client: Ashland Inc

Analysis Batch: 385402

Client Sample ID: Lab Control Sample Prep Type: Total/NA

•	Spike	LCS	LCS		%Rec.	
Analyte	Added	Result	Qualifier Unit	D %Rec	Limits	
Bromoform	50.0	53.7	ug/L	107	69 - 135	
Bromomethane	50.0	62.6	ug/L	125	20 - 180	
2-Butanone (MEK)	250	308	ug/L	123	75 <sub>-</sub> 133	
Carbon disulfide	50.0	47.9	ug/L	96	73 - 127	
Carbon tetrachloride	50.0	49.1	ug/L	98	75 - 130	
Chlorobenzene	50.0	50.7	ug/L	101	80 - 120	
Chlorodibromomethane	50.0	54.2	ug/L	108	71 <sub>-</sub> 136	
Chloroethane	50.0	64.3	ug/L	129	50 - 151	
Chloroform	50.0	51.0	ug/L	102	79 - 122	
Chloromethane	50.0	54.7	ug/L	109	63 - 126	
cis-1,2-Dichloroethene	50.0	52.5	ug/L	105	80 - 122	
cis-1,3-Dichloropropene	50.0	54.4	ug/L	109	80 - 133	
Dichlorobromomethane	50.0	51.2	ug/L	102	77 <sub>-</sub> 129	
1,1-Dichloroethane	50.0	51.1	ug/L	102	80 - 120	
1,2-Dichloroethane	50.0	55.5	ug/L	111	75 <sub>-</sub> 130	
1,1-Dichloroethene	50.0	50.0	ug/L	100	74 - 125	
1,2-Dichloropropane	50.0	53.0	ug/L	106	80 - 123	
Ethylbenzene	50.0	48.6	ug/L	97	80 - 120	
2-Hexanone	250	299	ug/L	120	70 - 141	
Methylene Chloride	50.0	47.8	ug/L	96	76 <sub>-</sub> 129	
4-Methyl-2-pentanone (MIBK)	250	303	ug/L	121	75 - 135	
Styrene	50.0	50.1	ug/L	100	80 - 122	
1,1,2,2-Tetrachloroethane	50.0	54.1	ug/L	108	72 - 128	
Tetrachloroethene	50.0	51.8	ug/L	104	77 - 123	
Toluene	50.0	51.8	ug/L	104	80 - 122	
trans-1,2-Dichloroethene	50.0	52.7	ug/L	105	78 - 123	
trans-1,3-Dichloropropene	50.0	55.5	ug/L	111	74 - 140	
1,1,1-Trichloroethane	50.0	49.6	ug/L	99	74 <sub>-</sub> 128	
1,1,2-Trichloroethane	50.0	54.4	ug/L	109	79 <sub>-</sub> 125	
Trichloroethene	50.0	51.3	ug/L	103	80 - 123	
Vinyl chloride	50.0	49.9	ug/L	100	68 - 132	
Xylenes, Total	100	98.7	ug/L	99	80 - 120	
ICS IC	S					

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	110		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 680-385402/5

**Matrix: Water** 

Analysis Batch: 385402

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acetone	250	300		ug/L		120	60 - 154	7	40
Benzene	50.0	51.7		ug/L		103	73 - 131	1	30
Bromoform	50.0	53.4		ug/L		107	69 - 135	0	20
Bromomethane	50.0	65.5		ug/L		131	20 - 180	4	40

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Prep Type: Total/NA

**Client Sample ID: Lab Control Sample Dup** 

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Project/Site: Hercules Glens Falls AST Waste Char.

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-385402/5

**Matrix: Water** 

Client: Ashland Inc

Analysis Batch: 385402

**Client Sample ID: Lab Control Sample Dup** 

**Prep Type: Total/NA** 

_	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
2-Butanone (MEK)	250	319		ug/L		128	75 - 133	4	30
Carbon disulfide	50.0	47.5		ug/L		95	73 - 127	1	20
Carbon tetrachloride	50.0	47.8		ug/L		96	75 - 130	3	20
Chlorobenzene	50.0	50.4		ug/L		101	80 - 120	1	20
Chlorodibromomethane	50.0	55.5		ug/L		111	71 - 136	2	20
Chloroethane	50.0	64.6		ug/L		129	50 - 151	1	30
Chloroform	50.0	51.6		ug/L		103	79 - 122	1	20
Chloromethane	50.0	54.6		ug/L		109	63 - 126	0	30
cis-1,2-Dichloroethene	50.0	53.7		ug/L		107	80 - 122	2	20
cis-1,3-Dichloropropene	50.0	56.0		ug/L		112	80 - 133	3	20
Dichlorobromomethane	50.0	52.3		ug/L		105	77 - 129	2	20
1,1-Dichloroethane	50.0	52.4		ug/L		105	80 - 120	3	20
1,2-Dichloroethane	50.0	57.1		ug/L		114	75 - 130	3	20
1,1-Dichloroethene	50.0	49.7		ug/L		99	74 - 125	1	20
1,2-Dichloropropane	50.0	54.2		ug/L		108	80 - 123	2	20
Ethylbenzene	50.0	48.2		ug/L		96	80 - 120	1	20
2-Hexanone	250	311		ug/L		124	70 - 141	4	40
Methylene Chloride	50.0	49.2		ug/L		98	76 - 129	3	20
4-Methyl-2-pentanone (MIBK)	250	315		ug/L		126	75 - 135	4	30
Styrene	50.0	49.9		ug/L		100	80 - 122	0	20
1,1,2,2-Tetrachloroethane	50.0	54.8		ug/L		110	72 - 128	1	20
Tetrachloroethene	50.0	51.3		ug/L		103	77 - 123	1	20
Toluene	50.0	52.3		ug/L		105	80 - 122	1	20
trans-1,2-Dichloroethene	50.0	52.7		ug/L		105	78 - 123	0	20
trans-1,3-Dichloropropene	50.0	55.9		ug/L		112	74 - 140	1	20
1,1,1-Trichloroethane	50.0	49.4		ug/L		99	74 - 128	0	20
1,1,2-Trichloroethane	50.0	56.7		ug/L		113	79 - 125	4	20
Trichloroethene	50.0	51.5		ug/L		103	80 - 123	1	20
Vinyl chloride	50.0	49.2		ug/L		98	68 - 132	2	30
Xylenes, Total	100	97.2		ug/L		97	80 - 120	2	20

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
1,2-Dichloroethane-d4 (Surr)	113		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: MB 680-385589/9

**Matrix: Water** 

**Analysis Batch: 385589** 

Client Sample ID: Method Blank

**Prep Type: Total/NA** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			06/02/15 14:12	1
Benzene	1.0	U	1.0	0.43	ug/L			06/02/15 14:12	1
Bromoform	1.0	U	1.0	0.43	ug/L			06/02/15 14:12	1
Bromomethane	5.0	U	5.0	2.5	ug/L			06/02/15 14:12	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			06/02/15 14:12	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			06/02/15 14:12	1

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Project/Site: Hercules Glens Falls AST Waste Char.

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

1.0 U

Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water Analysis Batch: 385589

Lab Sample ID: MB 680-385589/9

Client: Ashland Inc

MB MB **MDL** Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac Carbon tetrachloride 1.0 U 1.0 0.33 ug/L 06/02/15 14:12 Chlorobenzene 1.0 U 1.0 0.26 ug/L 06/02/15 14:12 Chlorodibromomethane 1.0 U 1.0 0.32 ug/L 06/02/15 14:12 Chloroethane 5.0 U 5.0 2.5 ug/L 06/02/15 14:12 Chloroform 10 U 1.0 0.50 ug/L 06/02/15 14:12 Chloromethane 1.0 U 1.0 0.40 ug/L 06/02/15 14:12 cis-1,2-Dichloroethene 0.41 ug/L 1.0 U 1.0 06/02/15 14:12 cis-1,3-Dichloropropene 1.0 U 1.0 0.40 ug/L 06/02/15 14:12 Dichlorobromomethane 1.0 U 1.0 0.44 ug/L 06/02/15 14:12 1,1-Dichloroethane 1.0 U 1.0 0.38 ug/L 06/02/15 14:12 1,2-Dichloroethane 1.0 U 1.0 0.50 ug/L 06/02/15 14:12 0.36 ug/L 1,1-Dichloroethene 1.0 U 1.0 06/02/15 14:12 1,2-Dichloropropane 1.0 U 1.0 0.67 ug/L 06/02/15 14:12 Ethylbenzene 1.0 0.33 ug/L 1.0 U 06/02/15 14:12 2-Hexanone 10 U 10 2.0 ug/L 06/02/15 14:12 2.5 ug/L Methylene Chloride 50 U 5.0 06/02/15 14:12 4-Methyl-2-pentanone (MIBK) 10 U 10 2.1 ug/L 06/02/15 14:12 0.27 ug/L Styrene 10 U 1.0 06/02/15 14:12 1,1,2,2-Tetrachloroethane 1.0 U 1.0 0.62 ug/L 06/02/15 14:12 Tetrachloroethene 0.74 ug/L 1.0 U 1.0 06/02/15 14:12 Toluene 1.0 U 1.0 0.48 ug/L 06/02/15 14:12 trans-1.2-Dichloroethene 1.0 U 1.0 0.37 ug/L 06/02/15 14:12 trans-1,3-Dichloropropene 1.0 U 1.0 0.42 ug/L 06/02/15 14:12 1,1,1-Trichloroethane 1.0 U 1.0 0.37 ug/L 06/02/15 14:12 1,1,2-Trichloroethane 1.0 U 1.0 0.33 ug/L 06/02/15 14:12 Trichloroethene 1.0 U 1.0 0.48 ug/L 06/02/15 14:12 Vinyl chloride 0.50 ug/L 1.0 U 1.0 06/02/15 14:12

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130		06/02/15 14:12	1
Dibromofluoromethane (Surr)	101		70 - 130		06/02/15 14:12	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		06/02/15 14:12	1
Toluene-d8 (Surr)	103		70 - 130		06/02/15 14:12	1

1.0

0.23 ug/L

Lab Sample ID: LCS 680-385589/4

**Matrix: Water** 

Xylenes, Total

**Analysis Batch: 385589** 

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

06/02/15 14:12

-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Acetone	250	243		ug/L		97	60 - 154	
Benzene	50.0	51.4		ug/L		103	73 - 131	
Bromoform	50.0	46.7		ug/L		93	69 - 135	
Bromomethane	50.0	54.6		ug/L		109	20 - 180	
2-Butanone (MEK)	250	260		ug/L		104	75 - 133	
Carbon disulfide	50.0	49.6		ug/L		99	73 - 127	
Carbon tetrachloride	50.0	48.5		ug/L		97	75 - 130	
Chlorobenzene	50.0	50.7		ug/L		101	80 - 120	

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Project/Site: Hercules Glens Falls AST Waste Char.

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-385589/4

**Matrix: Water** 

Client: Ashland Inc

**Analysis Batch: 385589** 

Client Sample ID: Lab Control Sample Prep Type: Total/NA

LCS LCS Spike %Rec. Added Result Qualifier Analyte Unit %Rec Limits Chlorodibromomethane 50.0 49.6 99 71 - 136 ug/L ug/L Chloroethane 50.0 64.5 129 50 - 151 Chloroform 50.0 50.6 101 79 - 122 ug/L Chloromethane 50.0 54.8 ug/L 110 63 - 126 cis-1,2-Dichloroethene 50.0 51.7 ug/L 103 80 - 122 cis-1,3-Dichloropropene 50.0 51.5 ug/L 103 80 - 133 Dichlorobromomethane ug/L 50.0 100 77 - 129 49.9 103 1,1-Dichloroethane 50.0 51.7 ug/L 80 - 120 1.2-Dichloroethane 50.0 53.0 ug/L 106 75 - 130 74 - 125 1,1-Dichloroethene 50.0 51.5 ug/L 103 1,2-Dichloropropane 50.0 51.6 ug/L 103 80 - 123 Ethylbenzene 50.0 99 80 - 120 49.7 ug/L 2-Hexanone 250 252 101 70 - 141 ug/L 95 76 - 129 Methylene Chloride 50.0 47.5 ug/L 4-Methyl-2-pentanone (MIBK) 250 260 104 75 - 135 ug/L 100 Styrene 50.0 49.8 ug/L 80 - 1221,1,2,2-Tetrachloroethane 50.0 48.9 ug/L 98 72 - 128 Tetrachloroethene 50.0 52.2 ug/L 104 77 - 123 Toluene 50.0 51.6 ug/L 103 80 - 122 50.0 53.9 108 78 - 123 trans-1,2-Dichloroethene ug/L trans-1,3-Dichloropropene 50.0 50.6 ug/L 101 74 - 140 1.1.1-Trichloroethane 50.0 51.0 ug/L 102 74 - 128 1,1,2-Trichloroethane 50.0 51.8 ug/L 104 79 - 125 Trichloroethene 50.0 52.6 ug/L 105 80 - 123 105 Vinyl chloride 50.0 52.7 ug/L 68 - 132 Xylenes, Total 100 99.6 ug/L 100 80 - 120

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCSD 680-385589/5

**Matrix: Water** 

**Analysis Batch: 385589** 

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acetone	250	243		ug/L		97	60 - 154	0	40
Benzene	50.0	52.2		ug/L		104	73 - 131	2	30
Bromoform	50.0	48.2		ug/L		96	69 - 135	3	20
Bromomethane	50.0	56.0		ug/L		112	20 - 180	3	40
2-Butanone (MEK)	250	265		ug/L		106	75 - 133	2	30
Carbon disulfide	50.0	49.5		ug/L		99	73 - 127	0	20
Carbon tetrachloride	50.0	48.8		ug/L		98	75 - 130	1	20
Chlorobenzene	50.0	51.4		ug/L		103	80 - 120	1	20
Chlorodibromomethane	50.0	50.6		ug/L		101	71 - 136	2	20
Chloroethane	50.0	64.2		ug/L		128	50 - 151	0	30

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Project/Site: Hercules Glens Falls AST Waste Char.

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-385589/5

**Matrix: Water** 

Client: Ashland Inc

Analysis Batch: 385589

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Analysis Batch. 303303	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	_	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloroform	50.0	51.5		ug/L		103	79 - 122	2	20
Chloromethane	50.0	54.2		ug/L		108	63 - 126	1	30
cis-1,2-Dichloroethene	50.0	52.6		ug/L		105	80 - 122	2	20
cis-1,3-Dichloropropene	50.0	51.9		ug/L		104	80 - 133	1	20
Dichlorobromomethane	50.0	50.5		ug/L		101	77 - 129	1	20
1,1-Dichloroethane	50.0	52.6		ug/L		105	80 - 120	2	20
1,2-Dichloroethane	50.0	54.0		ug/L		108	75 - 130	2	20
1,1-Dichloroethene	50.0	51.9		ug/L		104	74 - 125	1	20
1,2-Dichloropropane	50.0	52.6		ug/L		105	80 - 123	2	20
Ethylbenzene	50.0	50.1		ug/L		100	80 - 120	1	20
2-Hexanone	250	259		ug/L		104	70 - 141	3	40
Methylene Chloride	50.0	47.9		ug/L		96	76 - 129	1	20
4-Methyl-2-pentanone (MIBK)	250	266		ug/L		106	75 - 135	2	30
Styrene	50.0	50.5		ug/L		101	80 - 122	1	20
1,1,2,2-Tetrachloroethane	50.0	49.9		ug/L		100	72 - 128	2	20
Tetrachloroethene	50.0	52.5		ug/L		105	77 - 123	0	20
Toluene	50.0	52.4		ug/L		105	80 - 122	2	20
trans-1,2-Dichloroethene	50.0	54.0		ug/L		108	78 - 123	0	20
trans-1,3-Dichloropropene	50.0	51.3		ug/L		103	74 - 140	1	20
1,1,1-Trichloroethane	50.0	51.4		ug/L		103	74 - 128	1	20
1,1,2-Trichloroethane	50.0	52.8		ug/L		106	79 - 125	2	20
Trichloroethene	50.0	53.4		ug/L		107	80 - 123	1	20
Vinyl chloride	50.0	52.4		ug/L		105	68 - 132	1	30

ug/L

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
Toluene-d8 (Surr)	101		70 - 130

#### Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-384796/6-A

**Matrix: Water** 

Xylenes, Total

**Analysis Batch: 385257** 

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 384796

80 - 120

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	0.58	ug/L		05/27/15 15:58	05/29/15 20:59	1
2,4,5-Trichlorophenol	10	U	10	1.2	ug/L		05/27/15 15:58	05/29/15 20:59	1
2,4,6-Trichlorophenol	10	U	10	0.85	ug/L		05/27/15 15:58	05/29/15 20:59	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		05/27/15 15:58	05/29/15 20:59	1
2,4-Dimethylphenol	10	U	10	4.0	ug/L		05/27/15 15:58	05/29/15 20:59	1
2,4-Dinitrophenol	50	U	50	10	ug/L		05/27/15 15:58	05/29/15 20:59	1
2,4-Dinitrotoluene	10	U	10	1.2	ug/L		05/27/15 15:58	05/29/15 20:59	1
2-Chlorophenol	10	U	10	0.87	ug/L		05/27/15 15:58	05/29/15 20:59	1
2-Chloronaphthalene	10	U	10	0.80	ug/L		05/27/15 15:58	05/29/15 20:59	1
2-Methylnaphthalene	10	U	10	0.78	ug/L		05/27/15 15:58	05/29/15 20:59	1

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# **QC Sample Results**

Client: Ashland Inc Project/Site: Hercules Glens Falls AST Waste Char. TestAmerica Job ID: 680-112745-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-384796/6-A

**Matrix: Water** 

Analysis Batch: 385257

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 384796

Analysis Batch: 385257	МВ	MB						Prep Batch: 384790	
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	10		10	0.89	ug/L		•	05/29/15 20:59	
2-Nitroaniline	50		50		ug/L			05/29/15 20:59	1
2-Nitrophenol	10		10		ug/L			05/29/15 20:59	
3 & 4 Methylphenol	10		10		ug/L			05/29/15 20:59	1
3,3'-Dichlorobenzidine	60		60		ug/L			05/29/15 20:59	1
3-Nitroaniline	50		50		ug/L			05/29/15 20:59	,
4,6-Dinitro-2-methylphenol	50		50		ug/L			05/29/15 20:59	,
4-Bromophenyl phenyl ether	10		10		ug/L			05/29/15 20:59	,
4-Chloro-3-methylphenol	10		10		ug/L			05/29/15 20:59	
4-Chloroaniline	20		20		•			05/29/15 20:59	,
	10		10		ug/L			05/29/15 20:59	1
4-Chlorophenyl phenyl ether					ug/L				
4-Nitroaniline	50		50		ug/L			05/29/15 20:59	1
Acenaphthene	10		10		ug/L			05/29/15 20:59	1
Acenaphthylene	10		10		ug/L			05/29/15 20:59	1
Acetophenone	10		10		ug/L			05/29/15 20:59	1
Anthracene	10		10		ug/L			05/29/15 20:59	1
Benzo[a]anthracene	10		10		ug/L			05/29/15 20:59	1
Benzo[a]pyrene	10		10		ug/L			05/29/15 20:59	1
Benzo[b]fluoranthene	10	U	10		ug/L			05/29/15 20:59	1
Benzo[g,h,i]perylene	10	U	10		ug/L		05/27/15 15:58	05/29/15 20:59	1
Benzo[k]fluoranthene	10	U	10	1.2	ug/L		05/27/15 15:58	05/29/15 20:59	1
Bis(2-chloroethoxy)methane	10	U	10	0.94	ug/L		05/27/15 15:58	05/29/15 20:59	1
Bis(2-chloroethyl)ether	10	U	10	1.1	ug/L		05/27/15 15:58	05/29/15 20:59	1
Bis(2-ethylhexyl) phthalate	10	U	10	1.6	ug/L		05/27/15 15:58	05/29/15 20:59	1
Chrysene	10	U	10	0.51	ug/L		05/27/15 15:58	05/29/15 20:59	1
Dibenz(a,h)anthracene	10	U	10	1.0	ug/L		05/27/15 15:58	05/29/15 20:59	1
Dibenzofuran	10	U	10	0.79	ug/L		05/27/15 15:58	05/29/15 20:59	1
Di-n-butyl phthalate	10	U	10	0.83	ug/L		05/27/15 15:58	05/29/15 20:59	1
Diethyl phthalate	10	U	10	0.88	ug/L		05/27/15 15:58	05/29/15 20:59	1
Dimethyl phthalate	10	Ü	10	0.99	ug/L		05/27/15 15:58	05/29/15 20:59	1
Di-n-octyl phthalate	10	U	10	1.4	ug/L		05/27/15 15:58	05/29/15 20:59	1
Fluoranthene	10	U	10	0.74	ug/L		05/27/15 15:58	05/29/15 20:59	1
Fluorene	10	U	10	0.96	ug/L		05/27/15 15:58	05/29/15 20:59	1
Hexachlorobenzene	10	U	10	0.79	ug/L		05/27/15 15:58	05/29/15 20:59	1
Hexachlorobutadiene	10	U	10		ug/L		05/27/15 15:58	05/29/15 20:59	1
Hexachlorocyclopentadiene	10	U	10		ug/L		05/27/15 15:58	05/29/15 20:59	1
Hexachloroethane	10		10		ug/L			05/29/15 20:59	1
Indeno[1,2,3-cd]pyrene	10		10		ug/L			05/29/15 20:59	1
Isophorone	10		10		ug/L			05/29/15 20:59	1
Naphthalene	10		10		ug/L			05/29/15 20:59	1
Nitrobenzene	10		10		ug/L			05/29/15 20:59	1
N-Nitrosodiphenylamine	10		10		ug/L			05/29/15 20:59	
N-Nitrosodi-n-propylamine	10		10		ug/L			05/29/15 20:59	
Pentachlorophenol	50		50		ug/L			05/29/15 20:59	-
Phenanthrene	10		10		ug/L			05/29/15 20:59	
	10		10		•			05/29/15 20:59	
Phenol	10		10		ug/L			05/29/15 20:59	1
Pyrene Butyl benzyl phthalate	10		10		ug/L ug/L			05/29/15 20:59	1 1

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**Prep Type: Total/NA** 

**Prep Batch: 384796** 

Project/Site: Hercules Glens Falls AST Waste Char.

# Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-384796/6-A Client Sample ID: Method Blank **Matrix: Water** 

**Analysis Batch: 385257** 

Client: Ashland Inc

, , , , , , , , , , , , , , , , , , , ,	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	10	U	10	0.78	ug/L		05/27/15 15:58	05/29/15 20:59	1
Carbazole	10	U	10	0.71	ug/L		05/27/15 15:58	05/29/15 20:59	1
2,6-Dinitrotoluene	10	U	10	1.1	ug/L		05/27/15 15:58	05/29/15 20:59	1
4-Nitrophenol	50	U	50	1.9	ug/L		05/27/15 15:58	05/29/15 20:59	1
Atrazine	10	U	10	1.2	ug/L		05/27/15 15:58	05/29/15 20:59	1
Benzaldehyde	10	U	10	1.1	ug/L		05/27/15 15:58	05/29/15 20:59	1
Caprolactam	10	U	10	0.79	ug/L		05/27/15 15:58	05/29/15 20:59	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 2,4,6-Tribromophenol (Surr) 81 39 - 124 05/27/15 15:58 05/29/15 20:59 2-Fluorobiphenyl 64 32 - 113 05/27/15 15:58 05/29/15 20:59 1 2-Fluorophenol (Surr) 60 26 - 109 05/27/15 15:58 05/29/15 20:59 Terphenyl-d14 (Surr) 63 10 - 126 05/27/15 15:58 05/29/15 20:59 27 - 110 Phenol-d5 (Surr) 62 05/27/15 15:58 05/29/15 20:59 Nitrobenzene-d5 (Surr) 60 32 - 118 05/27/15 15:58 05/29/15 20:59

Lab Sample ID: LCS 680-384796/7-A

**Matrix: Water** 

Analysis Batch: 385257

Client	Sample	ID: Lab	Contro	I Sample
		Prep	Type:	Total/NA
		Pre	n Batch	: 384796

Analysis Buton: 000207	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1'-Biphenyl	100	67.6		ug/L		68	46 - 97
2,4,5-Trichlorophenol	100	77.3		ug/L		77	53 - 114
2,4,6-Trichlorophenol	100	74.5		ug/L		74	49 - 113
2,4-Dichlorophenol	100	75.5		ug/L		76	48 - 107
2,4-Dimethylphenol	100	70.1		ug/L		70	34 - 96
2,4-Dinitrophenol	200	140		ug/L		70	33 - 128
2,4-Dinitrotoluene	100	73.7		ug/L		74	53 - 109
2-Chlorophenol	100	66.8		ug/L		67	45 - 100
2-Chloronaphthalene	100	65.8		ug/L		66	47 - 97
2-Methylnaphthalene	100	67.0		ug/L		67	43 - 95
2-Methylphenol	100	68.6		ug/L		69	46 - 102
2-Nitroaniline	100	67.7		ug/L		68	49 - 116
2-Nitrophenol	100	72.4		ug/L		72	43 - 112
3 & 4 Methylphenol	100	65.2		ug/L		65	47 - 104
3,3'-Dichlorobenzidine	100	70.8		ug/L		71	10 - 130
3-Nitroaniline	100	66.9		ug/L		67	25 - 109
4,6-Dinitro-2-methylphenol	200	151		ug/L		75	44 - 128
4-Bromophenyl phenyl ether	100	76.2		ug/L		76	50 - 110
4-Chloro-3-methylphenol	100	75.3		ug/L		75	48 - 113
4-Chloroaniline	100	55.2		ug/L		55	10 - 130
4-Chlorophenyl phenyl ether	100	71.5		ug/L		71	49 - 109
4-Nitroaniline	100	69.5		ug/L		69	44 - 119
Acenaphthene	100	69.2		ug/L		69	41 - 102
Acenaphthylene	100	70.1		ug/L		70	47 - 109
Acetophenone	100	66.5		ug/L		66	43 - 96
Anthracene	100	72.1		ug/L		72	47 - 101
Benzo[a]anthracene	100	66.2		ug/L		66	44 - 109

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# **QC Sample Results**

Spike

Client: Ashland Inc TestAmerica Job ID: 680-112745-1

LCS LCS

Project/Site: Hercules Glens Falls AST Waste Char.

# Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-384796/7-A

**Matrix: Water** 

Caprolactam

**Analysis Batch: 385257** 

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384796

Prep Type: Total/NA Prep Batch: 384796 %Rec.

Analyte	Added	Result Q	ualifier Unit	D %Rec	Limits
Benzo[a]pyrene	100	64.9	ug/L	65	41 - 103
Benzo[b]fluoranthene	100	67.6	ug/L	68	44 - 108
Benzo[g,h,i]perylene	100	67.2	ug/L	67	42 - 110
Benzo[k]fluoranthene	100	66.6	ug/L	67	43 - 109
Bis(2-chloroethoxy)methane	100	66.9	ug/L	67	46 - 110
Bis(2-chloroethyl)ether	100	64.9	ug/L	65	37 - 105
Bis(2-ethylhexyl) phthalate	100	59.0	ug/L	59	48 - 119
Chrysene	100	69.3	ug/L	69	44 - 112
Dibenz(a,h)anthracene	100	66.4	ug/L	66	44 - 106
Dibenzofuran	100	72.1	ug/L	72	49 - 103
Di-n-butyl phthalate	100	70.5	ug/L	71	52 - 114
Diethyl phthalate	100	73.1	ug/L	73	53 - 115
Dimethyl phthalate	100	73.7	ug/L	74	52 - 111
Di-n-octyl phthalate	100	57.6	ug/L	58	45 - 122
Fluoranthene	100	72.2	ug/L	72	46 - 104
Fluorene	100	68.6	ug/L	69	51 - 104
Hexachlorobenzene	100	72.7	ug/L	73	42 - 108
Hexachlorobutadiene	100	54.2	ug/L	54	34 - 93
Hexachlorocyclopentadiene	100	33.3	ug/L	33	10 - 130
Hexachloroethane	100	46.2	ug/L	46	31 - 81
Indeno[1,2,3-cd]pyrene	100	66.2	ug/L	66	40 - 106
Isophorone	100	69.7	ug/L	70	43 - 106
Naphthalene	100	62.6	ug/L	63	37 - 97
Nitrobenzene	100	66.3	ug/L	66	41 - 105
N-Nitrosodiphenylamine	200	140	ug/L	70	42 - 116
N-Nitrosodi-n-propylamine	100	65.6	ug/L	66	46 - 109
Pentachlorophenol	200	156	ug/L	78	36 - 143
Phenanthrene	100	71.5	ug/L	72	48 - 106
Phenol	100	57.4	ug/L	57	35 - 101
Pyrene	100	70.3	ug/L	70	46 - 108
Butyl benzyl phthalate	100	62.0	ug/L	62	53 - 117
bis (2-chloroisopropyl) ether	100	63.6	ug/L	64	36 - 113
Carbazole	100	75.1	ug/L	75	51 - 116
2,6-Dinitrotoluene	100	77.3	ug/L	77	50 - 107
4-Nitrophenol	200	120	ug/L	60	41 - 118
Atrazine	100	98.6	ug/L	99	10 - 130
Benzaldehyde	100	86.1 E	ug/L	86	10 - 152

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	88		39 - 124
2-Fluorobiphenyl	70		32 - 113
2-Fluorophenol (Surr)	59		26 - 109
Terphenyl-d14 (Surr)	67		10 - 126
Phenol-d5 (Surr)	58		27 - 110
Nitrobenzene-d5 (Surr)	66		32 - 118

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100

47.6

ug/L

48

30 - 111

6

3

7

0

10

11

Project/Site: Hercules Glens Falls AST Waste Char.

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-112745-1 MS

**Matrix: Water** 

Client: Ashland Inc

Client Sample ID: PTP AS	ST
Prep Type: Total/N	NΑ
Prep Batch: 3847	96

Analysis Batch: 385515 Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 10 UF1 99.9 37.5 F1 ug/L 46 - 97 1,1'-Biphenyl 38 99.9 56.2 2,4,5-Trichlorophenol 10 UF1 ug/L 56 53 - 114 60 2,4,6-Trichlorophenol 10 U 99.9 59.5 ug/L 49 - 113 2,4-Dichlorophenol Ù 99.9 48 - 107 10 64.4 ug/L 64 2,4-Dimethylphenol 10 U 99.9 57.8 ug/L 58 34 - 96 2,4-Dinitrophenol 50 U 200 114 ug/L 57 33 - 128 10 U 99.9 55.9 ug/L 56 53 - 109 2,4-Dinitrotoluene 2-Chlorophenol 10 U 99.9 58 45 - 100 58.4 ug/L 99.9 37 47 - 97 2-Chloronaphthalene 10 UF1 37.2 F1 ug/L 2-Methylnaphthalene 10 UF1 99.9 43.9 ug/L 44 43 - 95 10 99.9 58.5 ug/L 59 46 - 102 2-Methylphenol U 2-Nitroaniline 50 U 99.9 57.9 ug/L 58 49 - 116 2-Nitrophenol 10 Ù 99.9 65.2 ug/L 65 43 - 112 99.9 59 3 & 4 Methylphenol 10 U 58.7 ug/L 47 - 104 3,3'-Dichlorobenzidine 60 UF1 99.9 60 UF1 ug/L 0 10 - 130 49 25 - 109 50 U 99.9 49.2 J ug/L 3-Nitroaniline 200 44 - 128 4,6-Dinitro-2-methylphenol 50 U 129 ug/L 65 99.9 4-Bromophenyl phenyl ether 10 U F1 39.3 F1 ug/L 39 50 - 110 4-Chloro-3-methylphenol 10 U 99.9 64.6 ug/L 65 48 - 113 10 - 130 4-Chloroaniline 20 U 99.9 48.2 ug/L 48 4-Chlorophenyl phenyl ether 10 U F1 99.9 34.1 F1 ug/L 34 49 - 109 50 U 99.9 ug/L 50 44 - 119 4-Nitroaniline 50.1 Acenaphthene 10 UF1 99.9 41.7 ug/L 42 41 - 102 Acenaphthylene 10 UF1 99.9 39.3 F1 ug/L 39 47 - 109 43 - 96 Acetophenone 10 U 99.9 59.4 ug/L 59 Anthracene 10 UF1 99.9 37.2 F1 ug/L 37 47 - 101 Benzo[a]anthracene 10 U F1 99.9 34.3 F1 ug/L 34 44 - 109 Benzo[a]pyrene 10 U F1 99.9 33.2 F1 ug/L 33 41 - 103 U F1 35 Benzo[b]fluoranthene 999 34.9 F1 ug/L 44 - 108 10 35 Benzo[g,h,i]perylene 10 UF1 99.9 34.5 F1 ug/L 42 - 110 99.9 34 Benzo[k]fluoranthene 10 UF1 33.6 F1 ug/L 43 - 10999.9 58 Bis(2-chloroethoxy)methane 10 U 58.3 ug/L 46 - 110 Bis(2-chloroethyl)ether 10 U 99.9 58.8 ug/L 59 37 - 105Bis(2-ethylhexyl) phthalate 10 U F1 99.9 35.3 F1 ug/L 35 48 - 119 Chrysene 10 UF1 99.9 33.2 F1 33 44 - 112 ug/L Dibenz(a,h)anthracene 10 UF1 99.9 34.6 F1 ug/L 35 44 - 106 Dibenzofuran 10 U F1 99.9 38 49 - 103 38.3 F1 ug/L Di-n-butyl phthalate 10 U F1 99.9 38.3 F1 ug/L 38 52 - 114Diethyl phthalate 10 UF1 99.9 54.2 ug/L 54 53 - 115Dimethyl phthalate 10 U 99.9 57.0 ug/L 57 52 - 111 Di-n-octyl phthalate 10 UF1 99.9 31.0 F1 ug/L 31 45 - 122 Fluoranthene 10 UF1 99.9 35.5 F1 36 46 - 104 ug/L 99.9 37.1 F1 37 51 - 104 Fluorene 10 U F1 ug/L 99.9 36 Hexachlorobenzene 10 UF1 35.7 F1 ug/L 42 - 10899.9 24 34 - 93 Hexachlorobutadiene 10 U F1 24.0 F1 ug/L 99.9 Hexachlorocyclopentadiene U F1 10.8 ug/L 11 10 - 130 10 Hexachloroethane 10 99.9 34.3 ug/L 34 31 - 81 Indeno[1,2,3-cd]pyrene 10 UF1 99.9 35.3 F1 ug/L 35 40 \_ 106

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Spike

Added

99.9

99.9

99.9

200

99.9

200

99.9

99.9

99.9

99.9

99.9

99.9

99.9

200

99.9

99.9

99.9

MS MS

60.8

50.2

60.5

103

57.6

106

53.7

56.4

56.9

55.3

110

80.4

67.4

57.0

38.6 F1

33.4 F1

36.9 F1

Result Qualifier

Unit

ug/L

TestAmerica Job ID: 680-112745-1

Project/Site: Hercules Glens Falls AST Waste Char.

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Sample Sample

10 U

10

50 U

10 U

10 U

10 UF1

10 UF1

10 U F1

50 U

Result Qualifier

Lab Sample ID: 680-112745-1 MS

**Matrix: Water** 

Analyte

Isophorone

Naphthalene

Nitrobenzene

N-Nitrosodiphenylamine

Pentachlorophenol

Butyl benzyl phthalate

2,6-Dinitrotoluene

4-Nitrophenol

Benzaldehyde

Caprolactam

bis (2-chloroisopropyl) ether

Phenanthrene

Phenol

Pyrene

Carbazole

Atrazine

N-Nitrosodi-n-propylamine

Client: Ashland Inc

**Analysis Batch: 385515** 

**Client Sample ID: PTP AST** 

Prep Type: Total/NA Prep Batch: 384796

		%Rec.
D	%Rec	Limits
_	61	43 - 106
	50	37 - 97
	61	41 - 105
	52	42 - 116
	58	46 - 109
	53	36 - 143
	39	48 - 106
	54	35 - 101
	33	46 - 108
	37	53 - 117
	56	36 - 113
	57	51 <sub>-</sub> 116
	55	50 - 107
	55	41 <sub>-</sub> 118

81

67

57

10 - 130

10 - 152

30 - 111

10 UF2

MS MS Surrogate Qualifier Limits %Recovery 2,4,6-Tribromophenol (Surr) 39 - 124 59 2-Fluorobiphenyl 45 32 - 113 2-Fluorophenol (Surr) 55 26 - 109 Terphenyl-d14 (Surr) 33 10 - 126 Phenol-d5 (Surr) 52 27 - 110 32 - 118 Nitrobenzene-d5 (Surr) 60

Lab Sample ID: 680-112745-1 MSD

**Matrix: Water** 

Analysis Batch: 385515

Client Sample ID: PTP AST
Prep Type: Total/NA
D D ( ) 00/T00

**Prep Batch: 384796** 

Analyte         Result 1,1'-Biphenyl         Qualifier 1,1'-Biphenyl         Added 10 U F1         Result 2,4,5-Trichlorophenol         Qualifier 1,1'-Biphenyl         Unit 2,4,6-Trichlorophenol         D %Rec 2 Limits Fix 2,4 Ug/L         Result 3,4 Ug/L         May 2,4 Ug/L         May 2,4 Ug/L         May 3,4 Ug/L <t< th=""><th>RPD</th></t<>	RPD
2,4,5-Trichlorophenol       10 U F1       89.9       46.3 F1       ug/L       51 53 - 114         2,4,6-Trichlorophenol       10 U       89.9       49.7       ug/L       55 49 - 113         2,4-Dichlorophenol       10 U       89.9       52.8       ug/L       59 48 - 107         2,4-Dimethylphenol       10 U       89.9       48.0       ug/L       53 34 - 96	PD Limi
2,4,6-Trichlorophenol       10 U       89.9       49.7       ug/L       55 49 - 113         2,4-Dichlorophenol       10 U       89.9       52.8       ug/L       59 48 - 107         2,4-Dimethylphenol       10 U       89.9       48.0       ug/L       53 34 - 96	20 50
2,4-Dichlorophenol       10 U       89.9       52.8       ug/L       59 48 - 107         2,4-Dimethylphenol       10 U       89.9       48.0       ug/L       53 34 - 96	19 50
2,4-Dimethylphenol 10 U 89.9 48.0 ug/L 53 34 - 96	18 50
, , , ,	20 50
2,4-Dinitrophenol 50 U 180 99.2 ug/L 55 33 - 128	19 50
	14 50
2,4-Dinitrotoluene 10 U 89.9 48.1 ug/L 53 53 - 109	15 50
2-Chlorophenol 10 U 89.9 50.1 ug/L 56 45 - 100	15 50
2-Chloronaphthalene 10 U F1 89.9 30.2 F1 ug/L 34 47 - 97	21 50
2-Methylnaphthalene 10 U F1 89.9 35.7 F1 ug/L 40 43 - 95	21 50
2-Methylphenol 10 U 89.9 47.5 ug/L 53 46 - 102	21 50
2-Nitroaniline 50 U 89.9 49.3 ug/L 55 49 - 116	16 50
2-Nitrophenol 10 U 89.9 55.5 ug/L 62 43 - 112	16 50
3 & 4 Methylphenol 10 U 89.9 48.2 ug/L 54 47 - 104	20 50
3,3'-Dichlorobenzidine 60 U F1 89.9 54 U F1 ug/L 0 10 - 130	NC 50
3-Nitroaniline 50 U 89.9 42.4 J ug/L 47 25 - 109	15 50
4,6-Dinitro-2-methylphenol 50 U 180 106 ug/L 59 44 - 128	19 50

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Client: Ashland Inc Project/Site: Hercules Glens Falls AST Waste Char.

# Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-112745-1 MSD Client Sample ID: PTP AST

Matrix: Water Analysis Batch: 385515	Sample	Sample	Spike	MSD	MSD				Prep Ty Prep Ba %Rec.		
Analyte	Result	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
4-Bromophenyl phenyl ether	10	U F1	89.9	29.2	F1	ug/L		32	50 - 110	29	50
4-Chloro-3-methylphenol	10	Ü	89.9	54.9		ug/L		61	48 - 113	16	50
4-Chloroaniline	20	U	89.9	37.2		ug/L		41	10 - 130	26	50
4-Chlorophenyl phenyl ether	10	U F1	89.9	26.8	F1	ug/L		30	49 - 109	24	50
4-Nitroaniline	50	Ü	89.9	45.9		ug/L		51	44 - 119	9	50
Acenaphthene	10	U F1	89.9	34.5	F1	ug/L		38	41 - 102	19	50
Acenaphthylene	10	U F1	89.9	31.5	F1	ug/L		35	47 - 109	22	50
Acetophenone	10	U	89.9	50.5		ug/L		56	43 - 96	16	50
Anthracene	10	U F1	89.9	28.9	F1	ug/L		32	47 - 101	25	50
Benzo[a]anthracene	10	U F1	89.9	23.6	F1	ug/L		26	44 - 109	37	50
Benzo[a]pyrene	10	U F1	89.9	22.5	F1	ug/L		25	41 - 103	38	50
Benzo[b]fluoranthene	10	U F1	89.9	23.5	F1	ug/L		26	44 - 108	39	50
Benzo[g,h,i]perylene	10	U F1	89.9	22.1	F1	ug/L		25	42 - 110	44	50
Benzo[k]fluoranthene	10	U F1	89.9	22.0	F1	ug/L		24	43 - 109	42	50
Bis(2-chloroethoxy)methane	10	U	89.9	49.8		ug/L		55	46 - 110	16	50
Bis(2-chloroethyl)ether	10	U	89.9	50.5		ug/L		56	37 - 105	15	50
Bis(2-ethylhexyl) phthalate	10	U F1	89.9	24.4	F1	ug/L		27	48 - 119	37	50
Chrysene	10	U F1	89.9	22.9	F1	ug/L		25	44 - 112	37	50
Dibenz(a,h)anthracene	10	U F1	89.9	23.8	F1	ug/L		26	44 - 106	37	50
Dibenzofuran	10	U F1	89.9	30.7		ug/L		34	49 - 103	22	50
Di-n-butyl phthalate		U F1	89.9	29.9		ug/L		33	52 - 114	24	50
Diethyl phthalate		U F1	89.9	45.3		ug/L		50	53 <sub>-</sub> 115	18	50
Dimethyl phthalate	10		89.9	50.6		ug/L		56	52 - 111	12	50
Di-n-octyl phthalate		U F1	89.9	20.2	F1	ug/L		22	45 - 122	42	50
Fluoranthene		U F1	89.9	27.3		ug/L		30	46 - 104	26	50
Fluorene		U F1	89.9	29.9		ug/L		33	51 - 104	21	50
Hexachlorobenzene		U F1	89.9	24.9		ug/L		28	42 - 108	36	50
Hexachlorobutadiene		U F1	89.9	16.8		ug/L		19	34 - 93	35	50
Hexachlorocyclopentadiene		U F1	89.9		J F1	ug/L		8	10 - 130	41	50
Hexachloroethane	10		89.9	28.2		ug/L		31	31 - 81	20	50
Indeno[1,2,3-cd]pyrene		U F1	89.9	23.4	F1	ug/L		26	40 - 106	40	50
Isophorone	10		89.9	49.8		ug/L		55	43 - 106	20	50
Naphthalene	10		89.9	42.6		ug/L		47	37 - 97	16	50
Nitrobenzene	10		89.9	51.7		ug/L		58	41 - 105	16	50
N-Nitrosodiphenylamine	10		180	83.0		ug/L		46	42 - 116	22	50
N-Nitrosodi-n-propylamine	10		89.9	48.8		ug/L		54	46 - 109	17	50
Pentachlorophenol	50		180	78.6		ug/L		44	36 - 143	30	50
Phenanthrene		U F1	89.9	30.2	F1	ug/L		34	48 - 106	25	50
Phenol	10		89.9	43.0		ug/L ug/L		48	35 - 101	22	50
Pyrene		U F1	89.9	25.0	F1	ug/L ug/L		28	46 - 108	29	50
Butyl benzyl phthalate		U F1		28.2				31	53 - 117	27	50
bis (2-chloroisopropyl) ether	10		89.9 89.9	48.3		ug/L ug/L		54	36 <sub>-</sub> 113	15	50 50
Carbazole	10		89.9	46.3 47.2		ug/L ug/L		54 52	51 <sub>-</sub> 116	19	50 50
2,6-Dinitrotoluene	10		89.9 180	49.4		ug/L		55 46	50 <sub>-</sub> 107	11	50 50
4-Nitrophenol	50		180	82.2		ug/L		46	41 - 118	29	50 50
Atrazine	10		89.9	65.0		ug/L		72	10 - 130	21	50
Benzaldehyde	10		89.9	54.0	F0	ug/L		60	10 - 152	22	50
Caprolactam	10	U F2	89.9	33.1	F2	ug/L		37	30 - 111	53	50

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# Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-112745-1 MSD

**Matrix: Water** 

**Analysis Batch: 385515** 

**Client Sample ID: PTP AST Prep Type: Total/NA** 

**Prep Batch: 384796** 

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	56		39 - 124
2-Fluorobiphenyl	43		32 - 113
2-Fluorophenol (Surr)	51		26 - 109
Terphenyl-d14 (Surr)	16		10 - 126
Phenol-d5 (Surr)	48		27 - 110

59

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-384639/1-A

**Matrix: Water** 

Nitrobenzene-d5 (Surr)

Analysis Batch: 384988

**Client Sample ID: Method Blank Prep Type: Total/NA** 

**Prep Batch: 384639** 

Analysis Batch: 304900	MD	MB						Prep Batch:	304039
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	100	ug/L		05/26/15 10:40	05/27/15 13:27	1
Antimony	20	U	20	5.3	ug/L		05/26/15 10:40	05/27/15 13:27	1
Arsenic	20	U	20	4.6	ug/L		05/26/15 10:40	05/27/15 13:27	1
Barium	10	U	10	2.3	ug/L		05/26/15 10:40	05/27/15 13:27	1
Beryllium	4.0	U	4.0	0.20	ug/L		05/26/15 10:40	05/27/15 13:27	1
Cadmium	5.0	U	5.0	2.0	ug/L		05/26/15 10:40	05/27/15 13:27	1
Calcium	500	U	500	96	ug/L		05/26/15 10:40	05/27/15 13:27	1
Chromium	10	U	10	1.2	ug/L		05/26/15 10:40	05/27/15 13:27	1
Cobalt	10	U	10	0.95	ug/L		05/26/15 10:40	05/27/15 13:27	1
Copper	20	U	20	1.9	ug/L		05/26/15 10:40	05/27/15 13:27	1
Iron	100	U	100	50	ug/L		05/26/15 10:40	05/27/15 13:27	1
Lead	10	U	10	4.0	ug/L		05/26/15 10:40	05/27/15 13:27	1
Magnesium	500	U	500	9.9	ug/L		05/26/15 10:40	05/27/15 13:27	1
Manganese	10	U	10	2.0	ug/L		05/26/15 10:40	05/27/15 13:27	1
Nickel	40	U	40	2.3	ug/L		05/26/15 10:40	05/27/15 13:27	1
Potassium	1000	U	1000	22	ug/L		05/26/15 10:40	05/27/15 13:27	1
Selenium	20	U	20	6.4	ug/L		05/26/15 10:40	05/27/15 13:27	1
Silver	10	U	10	0.89	ug/L		05/26/15 10:40	05/27/15 13:27	1
Sodium	1000	U	1000	500	ug/L		05/26/15 10:40	05/27/15 13:27	1
Thallium	25	U	25	8.8	ug/L		05/26/15 10:40	05/27/15 13:27	1
Vanadium	10	U	10	2.4	ug/L		05/26/15 10:40	05/27/15 13:27	1
Zinc	20	U	20	8.7	ug/L		05/26/15 10:40	05/27/15 13:27	1

Lab Sample ID: LCS 680-384639/2-A

**Matrix: Water** 

Analysis Batch: 384988

**Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 384639** 

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	5000	5010		ug/L		100	80 - 120	
Antimony	50.0	51.0		ug/L		102	80 - 120	
Arsenic	100	99.6		ug/L		100	80 - 120	
Barium	100	99.7		ug/L		100	80 - 120	
Beryllium	50.0	51.7		ug/L		103	80 - 120	
Cadmium	50.0	51.9		ug/L		104	80 - 120	

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TestAmerica Job ID: 680-112745-1

Project/Site: Hercules Glens Falls AST Waste Char.

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 680-384639/2-A	
Barrier Sarrier	

**Matrix: Water** Analysis Batch: 384988

Client: Ashland Inc

Analyte

Calcium

LCS	LCS	Cli	ent Saı	mple ID	: Lab Control Sample Prep Type: Total/NA Prep Batch: 384639 %Rec.
Result	Qualifier	Unit	D	%Rec	Limits
5270		ug/L		105	80 - 120
105		ug/L		105	80 - 120
52.3		ug/L		105	80 - 120
100		ug/L		100	80 - 120
5090		ug/L		102	80 - 120
509		ug/L		102	80 - 120

80 - 120

80 - 120

80 - 120

80 - 120

80 - 120

Client Sample ID: Method Blank

**Client Sample ID: Lab Control Sample** 

%Rec.

Limits

80 - 120

**Client Sample ID: Lab Control Sample** 

D %Rec

95

**Prep Type: Total/NA** 

Prep Batch: 384862

**Prep Type: Total/NA Prep Batch: 384862** 

Chromium 100 105 Cobalt 50.0 52.3 Copper 100 100 Iron 5000 5090 Lead 500 509 ug/L 102 4970 ug/L 5000 99 Magnesium 500 Manganese 523 ug/L 105 Nickel 100 103 ug/L 103 5000 4660 93 Potassium ug/L Selenium 100 99.5 ug/L 99

Silver 50.0 52.2 ug/L 104 80 - 120 Sodium 5000 5050 101 80 - 120 ug/L 101 Thallium 40.0 40.3 80 - 120 ug/L Vanadium 100 102 ug/L 102 80 - 120 Zinc 100 104 ug/L 104 80 - 120

Spike Added

5000

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-384862/1-A

**Matrix: Water** 

Analysis Batch: 385115

MB MB
-------

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Mercury	0.20	U	0.20	0.080	ua/L		05/27/15 13:49	05/28/15 07:39		

LCS LCS

2.38

Result Qualifier

Unit

ug/L

Spike

Added

2.50

Lab Sample ID: LCS 680-384862/2-A

**Matrix: Water** 

Mercury

Anal	vsis	Batch:	3851	115
	•			

Allulysis	Datoii.	000110
Analyte		

Method: 1010A - Ignitability	, Pensky-Martens	<b>Closed Cup</b>	Method

Lab Sample ID: LCS 240-182950/1

**Matrix: Water** 

Analysis Batch: 182950						
-	Spike	LCS LCS			%Rec.	
Analyte	Added	Result Qualifier	Unit	D %Rec	Limits	
Flashpoint	81.0	81.00	Degrees F	100	97 - 103	

Prep Type: Total/NA

Client: Ashland Inc TestAmerica Job ID: 680-112745-1

Project/Site: Hercules Glens Falls AST Waste Char.

Method: 2540 D-2011 - Total Suspended Solids Dried at 103-105°C

Lab Sample ID: MB 680-384172/1 Client Sample ID: Method Blank Prep Type: Total/NA **Matrix: Water** 

**Analysis Batch: 384172** 

MB MB Analyte Result Qualifier RL **RL** Unit Analyzed Dil Fac D Prepared 1.0 05/21/15 11:49 Total Suspended Solids 1.0 U 1.0 mg/L

Lab Sample ID: LCS 680-384172/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 384172** 

Spike LCS LCS %Rec. Added Limits Analyte Result Qualifier Unit %Rec **Total Suspended Solids** 20.0 18.5 mg/L 93 80 - 120

Lab Sample ID: LCSD 680-384172/3 Client Sample ID: Lab Control Sample Dup **Matrix: Water Prep Type: Total/NA** 

**Analysis Batch: 384172** 

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec **Total Suspended Solids** 20.0 21.0 mg/L 105 80 - 120

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 680-384226/7 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 384226** 

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Ammonia 0.25 U 0.25 0.10 mg/L 05/21/15 14:22

Lab Sample ID: LCS 680-384226/1 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 384226** 

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits 1.00 Ammonia 1 01 101 mg/L 90 - 110

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 680-384649/1-A **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 384783 Prep Batch: 384649** MB MB RL Analyte Result Qualifier **MDL** Unit Prepared Analyzed Dil Fac 0.050 Phenolics, Total Recoverable 0.025 mg/L 05/26/15 11:05 05/26/15 16:04 0.050 U

Lab Sample ID: LCS 680-384649/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 384783 Prep Batch: 384649** Spike LCS LCS %Rec.

Analyte Added Result Qualifier Unit %Rec Limits Phenolics, Total Recoverable 0.100 0.0815 mg/L 82 75 - 125

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Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample Dup

Project/Site: Hercules Glens Falls AST Waste Char.

Method: 420.1 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCSD 680-384649/3-A		(	Client Sa	ample	ID: Lab	Control	Sample	<b>Dup</b>	
Matrix: Water	Prep Type: To							pe: Tot	al/NA
Analysis Batch: 384783							Prep Ba	atch: 38	34649
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Phenolics Total Recoverable	0 100	0.0761		ma/l		76	75 125	7	30

Method: 4500 H+ B-2011 - pH

Lab Sample ID: MB 680-384370/1

Lab Sample ID: LCSD 680-384370/3

Client: Ashland Inc

Lab Sample ID: LCS 680-384489/7 Matrix: Water			Client Sample ID: Lab Control Sample Prep Type: Total/NA
Analysis Batch: 384489			
	Spike	LCS LCS	%Rec.

Added Analyte Result Qualifier Unit D %Rec Limits pH 7.00 7.080 SU 101 63 - 158

Method: 4500 S2 F-2011 - Sulfide, Total

Matrix: Water						Ĭ		Prep Type: To		
Analysis Batch: 384370							•			
	MB	MB								
Analyte	Result	Qualifier	RL	RL	Unit	)	Prepared	Analyzed	Dil Fac	

Sulfide 1.0 U 1.0 1.0 mg/L 05/22/15 11:15 Lab Sample ID: LCS 680-384370/2 **Client Sample ID: Lab Control Sample** 

**Matrix: Water** Prep Type: Total/NA **Analysis Batch: 384370** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Limits Unit D %Rec Sulfide 10.0 11.8 118 75 - 125 mg/L

**Matrix: Water Prep Type: Total/NA Analysis Batch: 384370** Spike LCSD LCSD %Rec. **RPD** Limits Analyte Added Result Qualifier Unit D %Rec RPD Limit Sulfide 10.0 11.8 mg/L 75 - 125 118

Lab Sample ID: 680-112745-1 DU **Client Sample ID: PTP AST Matrix: Water** Prep Type: Total/NA

Analysis Batch: 384370

Allalysis Datell. 304370									
	Sample	Sample	DU	DU					RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D		RPD	Limit
Sulfide	1.0	U	 1.35		mg/L			NC	30

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Project/Site: Hercules Glens Falls AST Waste Char.

Method: 5210B-2011 - BOD, 5-Day

Lab Sample ID: USB 680-384258/1 Client Sample ID: Method Blank **Matrix: Water Prep Type: Total/NA** 

**Analysis Batch: 384258** 

Client: Ashland Inc

USB USB

Analyte Result Qualifier RL **RL** Unit Analyzed Dil Fac Prepared 2.0 **Biochemical Oxygen Demand** 2.0 U 2.0 mg/L 05/21/15 09:11

Lab Sample ID: LCS 680-384258/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 384258** 

Spike LCS LCS %Rec. Added Limits Analyte Result Qualifier Unit %Rec **Biochemical Oxygen Demand** 198 2.0 U\* mg/L -9 85 - 115

Lab Sample ID: LCSD 680-384258/3 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 384258** 

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec **Biochemical Oxygen Demand** 198 2.0 U \* mg/L -8 85 - 115

Lab Sample ID: USB 680-385295/1 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 385295** 

USB USB

Result Qualifier RL **RL Unit** Prepared Analyzed Dil Fac **Biochemical Oxygen Demand** 2.0 U 2.0 2.0 mg/L 05/28/15 13:56

Lab Sample ID: LCS 680-385295/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 385295** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits 198 205 Biochemical Oxygen Demand 103 85 - 115 mg/L

Lab Sample ID: LCSD 680-385295/3 Client Sample ID: Lab Control Sample Dup

**Matrix: Water** 

Analysis Batch: 385295

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit Analyte D %Rec Limits **RPD** Limit 198 202 **Biochemical Oxygen Demand** mg/L 102 85 - 115

Method: 5220D-2011 - Chemical Oxygen Demand

Lab Sample ID: MB 680-384679/3 **Client Sample ID: Method Blank** Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 384679** 

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chemical Oxygen Demand 10 U 10 5.0 mg/L 05/26/15 13:00

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Prep Type: Total/NA

Project/Site: Hercules Glens Falls AST Waste Char.

Method: 5220D-2011 - Chemical Oxygen Demand (Continued)

Lab Sample ID: LCS 680-384679/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 384679** 

Client: Ashland Inc

Spike LCS LCS %Rec. Added Result Qualifier Unit D %Rec Limits Analyte 50.0 **Chemical Oxygen Demand** 48.6 mg/L 97 90 - 110

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 680-384246/2 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 384246** 

MB MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chromium, hexavalent 0.010 U 0.010 0.0030 mg/L 05/21/15 12:14

Lab Sample ID: LCS 680-384246/1 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 384246** 

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chromium, hexavalent 0.200 0.188 94 85 - 115 mg/L

Lab Sample ID: 680-112745-1 MS **Client Sample ID: PTP AST Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 384246** 

MS MS Sample Sample Spike %Rec. Result Qualifier Added Result Qualifier %Rec Limits Unit Chromium, hexavalent 0.010 U 0.200 0.189 85 - 115 mg/L

Lab Sample ID: 680-112745-1 MSD **Client Sample ID: PTP AST** Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 384246** 

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Analyte D 0.010 U 0.200 Chromium, hexavalent 0.188 94 0 mg/L 85 - 115

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 680-384598/1-A **Client Sample ID: Method Blank** 

**Matrix: Water** 

**Analysis Batch: 384675 Prep Batch: 384598** MB MB RL Analyte Result Qualifier **MDL** Unit Prepared Analyzed Dil Fac 0.010 Cyanide, Total 0 010 U 0.0050 mg/L

**Client Sample ID: Lab Control Sample** Lab Sample ID: LCS 680-384598/2-A **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 384675 Prep Batch: 384598** Spike LCS LCS %Rec.

Analyte Added Result Qualifier Unit %Rec Limits Cyanide, Total 0.0500 0.0528 mg/L 106 85 - 115

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Prep Type: Total/NA

# **QC Association Summary**

Client: Ashland Inc

Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

# **GC/MS VOA**

# Analysis Batch: 385402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
680-112745-2	Trip Blank	Total/NA	Water	8260B
LCS 680-385402/4	Lab Control Sample	Total/NA	Water	8260B
LCSD 680-385402/5	Lab Control Sample Dup	Total/NA	Water	8260B
MB 680-385402/9	Method Blank	Total/NA	Water	8260B

# Analysis Batch: 385589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	8260B	
LCS 680-385589/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-385589/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-385589/9	Method Blank	Total/NA	Water	8260B	

# **GC/MS Semi VOA**

# **Prep Batch: 384796**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	3520C	
680-112745-1 MS	PTP AST	Total/NA	Water	3520C	
680-112745-1 MSD	PTP AST	Total/NA	Water	3520C	
LCS 680-384796/7-A	Lab Control Sample	Total/NA	Water	3520C	
MB 680-384796/6-A	Method Blank	Total/NA	Water	3520C	

# **Analysis Batch: 385257**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-384796/7-A	Lab Control Sample	Total/NA	Water	8270D	384796
MB 680-384796/6-A	Method Blank	Total/NA	Water	8270D	384796

# **Analysis Batch: 385515**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	8270D	384796
680-112745-1 MS	PTP AST	Total/NA	Water	8270D	384796
680-112745-1 MSD	PTP AST	Total/NA	Water	8270D	384796

# **Metals**

# **Prep Batch: 384639**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	3010A	
LCS 680-384639/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 680-384639/1-A	Method Blank	Total/NA	Water	3010A	

# **Prep Batch: 384862**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	7470A	
LCS 680-384862/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-384862/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 3849	88				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	6010C	384639

TestAmerica Savannah

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# **QC Association Summary**

Client: Ashland Inc

Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

# **Metals (Continued)**

# **Analysis Batch: 384988 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-384639/2-A	Lab Control Sample	Total/NA	Water	6010C	384639
MB 680-384639/1-A	Method Blank	Total/NA	Water	6010C	384639

# **Analysis Batch: 385115**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	7470A	384862
LCS 680-384862/2-A	Lab Control Sample	Total/NA	Water	7470A	384862
MB 680-384862/1-A	Method Blank	Total/NA	Water	7470A	384862

# **General Chemistry**

# **Analysis Batch: 182950**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	1010A	
LCS 240-182950/1	Lab Control Sample	Total/NA	Water	1010A	

# **Analysis Batch: 384172**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	2540 D-2011	
LCS 680-384172/2	Lab Control Sample	Total/NA	Water	2540 D-2011	
LCSD 680-384172/3	Lab Control Sample Dup	Total/NA	Water	2540 D-2011	
MB 680-384172/1	Method Blank	Total/NA	Water	2540 D-2011	

# Analysis Batch: 384226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	350.1	
LCS 680-384226/1	Lab Control Sample	Total/NA	Water	350.1	
MB 680-384226/7	Method Blank	Total/NA	Water	350.1	

# **Analysis Batch: 384246**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	7196A	
680-112745-1 MS	PTP AST	Total/NA	Water	7196A	
680-112745-1 MSD	PTP AST	Total/NA	Water	7196A	
LCS 680-384246/1	Lab Control Sample	Total/NA	Water	7196A	
MB 680-384246/2	Method Blank	Total/NA	Water	7196A	

# **Analysis Batch: 384258**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	5210B-2011	· ———
LCS 680-384258/2	Lab Control Sample	Total/NA	Water	5210B-2011	
LCSD 680-384258/3	Lab Control Sample Dup	Total/NA	Water	5210B-2011	
USB 680-384258/1	Method Blank	Total/NA	Water	5210B-2011	

# **Analysis Batch: 384370**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	4500 S2 F-2011	
680-112745-1 DU	PTP AST	Total/NA	Water	4500 S2 F-2011	
LCS 680-384370/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-384370/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	

TestAmerica Savannah

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# **QC Association Summary**

Client: Ashland Inc

Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

# **General Chemistry (Continued)**

# **Analysis Batch: 384370 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-384370/1	Method Blank	Total/NA	Water	4500 S2 F-2011	

# **Analysis Batch: 384489**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	4500 H+ B-2011	
LCS 680-384489/7	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	

# **Prep Batch: 384598**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	9012B	<u> </u>
LCS 680-384598/2-A	Lab Control Sample	Total/NA	Water	9012B	
MB 680-384598/1-A	Method Blank	Total/NA	Water	9012B	

# **Prep Batch: 384649**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	Distill/Phenol	
LCS 680-384649/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
LCSD 680-384649/3-A	Lab Control Sample Dup	Total/NA	Water	Distill/Phenol	
MB 680-384649/1-A	Method Blank	Total/NA	Water	Distill/Phenol	

# **Analysis Batch: 384675**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	9012B	384598
LCS 680-384598/2-A	Lab Control Sample	Total/NA	Water	9012B	384598
MB 680-384598/1-A	Method Blank	Total/NA	Water	9012B	384598

# **Analysis Batch: 384679**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	5220D-2011	
LCS 680-384679/4	Lab Control Sample	Total/NA	Water	5220D-2011	
MB 680-384679/3	Method Blank	Total/NA	Water	5220D-2011	

# **Analysis Batch: 384783**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	420.1	384649
LCS 680-384649/2-A	Lab Control Sample	Total/NA	Water	420.1	384649
LCSD 680-384649/3-A	Lab Control Sample Dup	Total/NA	Water	420.1	384649
MB 680-384649/1-A	Method Blank	Total/NA	Water	420.1	384649

# **Analysis Batch: 385295**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	5210B-2011	·
LCS 680-385295/2	Lab Control Sample	Total/NA	Water	5210B-2011	
LCSD 680-385295/3	Lab Control Sample Dup	Total/NA	Water	5210B-2011	
USB 680-385295/1	Method Blank	Total/NA	Water	5210B-2011	

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# **Lab Chronicle**

Client: Ashland Inc

Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Lab Sample ID: 680-112745-1

Matrix: Water

Client Sample ID: PTP AST Date Collected: 05/20/15 13:30

Date Received: 05/21/15 09:12

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	385589	06/02/15 17:47	RWB	TAL SAV
Total/NA	Prep	3520C			384796	05/27/15 15:58	RBS	TAL SAV
Total/NA	Analysis	8270D		1	385515	06/02/15 00:27	RAM	TAL SAV
Total/NA	Prep	3010A			384639	05/26/15 10:40	CRW	TAL SAV
Total/NA	Analysis	6010C		1	384988	05/27/15 15:23	BCB	TAL SAV
Total/NA	Prep	7470A			384862	05/27/15 13:49	JKL	TAL SAV
Total/NA	Analysis	7470A		10	385115	05/28/15 09:34	JKL	TAL SAV
Total/NA	Analysis	1010A		1	182950	05/29/15 09:00	BLW	TAL CAN
Total/NA	Analysis	2540 D-2011		1	384172	05/21/15 12:47	LBH	TAL SAV
Total/NA	Analysis	350.1		1	384226	05/21/15 14:22	JME	TAL SAV
Total/NA	Prep	Distill/Phenol			384649	05/26/15 11:05	JME	TAL SAV
Total/NA	Analysis	420.1		1	384783	05/26/15 15:11	JME	TAL SAV
Total/NA	Analysis	4500 H+ B-2011		1	384489	05/23/15 07:56	OLB	TAL SAV
Total/NA	Analysis	4500 S2 F-2011		1	384370	05/22/15 11:15	JRJ	TAL SAV
Total/NA	Analysis	5210B-2011		1	384258	05/21/15 16:42	LBH	TAL SAV
Total/NA	Analysis	5210B-2011		1	385295	05/28/15 18:46	OLB	TAL SAV
Total/NA	Analysis	5220D-2011		2	384679	05/26/15 13:00	JRJ	TAL SAV
Total/NA	Analysis	7196A		1	384246	05/21/15 12:14	GRX	TAL SAV
Total/NA	Prep	9012B			384598	05/26/15 07:30	DAM	TAL SAV
Total/NA	Analysis	9012B		1	384675	05/26/15 12:32	DAM	TAL SAV

Client Sample ID: Trip Blank Lab Sample ID: 680-112745-2

Date Collected: 05/20/15 00:00 Matrix: Water

Date Received: 05/21/15 09:12

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	385402	06/01/15 15:00	JD1	TAL SAV

### **Laboratory References:**

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396 TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TestAmerica Savannah

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Client: Ashland Inc Project/Site: Hercules Glens Falls AST Waste Char.

# **Laboratory: TestAmerica Savannah**

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-17
A2LA	ISO/IEC 17025		399.01	02-28-17
Alabama	State Program	4	41450	06-30-15 *
Arkansas DEQ	State Program	6	88-0692	01-31-16
California	State Program	9	2939	07-31-15
Colorado	State Program	8	N/A	12-31-15
Connecticut	State Program	1	PH-0161	03-31-17
Florida	NELAP	4	E87052	06-30-15 *
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	N/A	06-30-15 *
Georgia	State Program	4	803	06-30-15 *
Guam	State Program	9	14-004r	04-16-15 *
Hawaii	State Program	9	N/A	06-30-15 *
Illinois	NELAP	5	200022	11-30-15
Indiana	State Program	5	N/A	06-30-15 *
Iowa	State Program	7	353	07-01-15 *
Kentucky (DW)	State Program	4	90084	12-31-15
Kentucky (UST)	State Program	4	18	06-30-15 *
Kentucky (WW)	State Program	4	90084	12-31-15
Louisiana	NELAP	6	30690	06-30-15 *
Louisiana (DW)	NELAP	6	LA150014	12-31-15
Maine	State Program	1	GA00006	09-24-16
Maryland	State Program	3	250	12-31-15
Massachusetts	State Program	1	M-GA006	06-30-15 *
Michigan	State Program	5	9925	06-30-15 *
Mississippi	State Program	4	N/A	06-30-15 *
Montana	State Program	8	CERT0081	12-31-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-15 *
New Jersey	NELAP	2	GA769	06-30-15 *
New Mexico	State Program	6	N/A	06-30-15 *
New York	NELAP	2	10842	03-31-16
North Carolina (DW)	State Program	4	13701	07-31-15
North Carolina (WW/SW)	State Program	4	269	12-31-15
Oklahoma	State Program	6	9984	08-31-15
Pennsylvania	NELAP	3	68-00474	06-30-15 *
Puerto Rico	State Program	2	GA00006	12-31-15
South Carolina	State Program	4	98001	06-30-15 *
Tennessee	State Program	4	TN02961	06-30-15 *
Texas	NELAP	6	T104704185-14-7	11-30-15
USDA	Federal	U	SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-15 *
		10	C805	06-14-15
Washington West Virginia (DW)	State Program			
West Virginia (DW)	State Program	3	9950C	12-31-15
West Virginia DEP	State Program	3	094	06-30-15 *
Wisconsin	State Program	5	999819810	08-31-15
Wyoming	State Program	8	8TMS-L	06-30-15 *

# **Laboratory: TestAmerica Canton**

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

TestAmerica Savannah

6/4/2015

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<sup>\*</sup> Certification renewal pending - certification considered valid.

# **Certification Summary**

Client: Ashland Inc

TestAmerica Job ID: 680-112745-1

Project/Site: Hercules Glens Falls AST Waste Char.

# **Laboratory: TestAmerica Canton (Continued)**

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	<b>Expiration Date</b>
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-15
Florida	NELAP	4	E87225	06-30-15 *
Georgia	State Program	4	N/A	06-30-15 *
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	05-31-15 *
Kentucky (UST)	State Program	4	58	06-30-15 *
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15 *
New York	NELAP	2	10975	03-31-16 *
Ohio VAP	State Program	5	CL0024	10-31-15
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-15

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<sup>\*</sup> Certification renewal pending - certification considered valid.

# **Method Summary**

Client: Ashland Inc

Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

lethod	Method Description	Protocol	Laboratory
260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SAV
010C	Metals (ICP)	SW846	TAL SAV
470A	Mercury (CVAA)	SW846	TAL SAV
010A	Ignitability, Pensky-Martens Closed Cup Method	SW846	TAL CAN
540 D-2011	Total Suspended Solids Dried at 103-105°C	SM	TAL SAV
50.1	Nitrogen, Ammonia	MCAWW	TAL SAV
20.1	Phenolics, Total Recoverable	MCAWW	TAL SAV
500 H+ B-2011	pH	SM	TAL SAV
500 S2 F-2011	Sulfide, Total	SM	TAL SAV
210B-2011	BOD, 5-Day	SM	TAL SAV
220D-2011	Chemical Oxygen Demand	SM	TAL SAV
196A	Chromium, Hexavalent	SW846	TAL SAV
)12B	Cyanide, Total andor Amenable	SW846	TAL SAV

### **Protocol References:**

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### **Laboratory References:**

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396 TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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# **Chain of Custody Record**

TestAmerica Savannah

5102 LaRoche Avenue

THE LEADER IN ENVIRONMENTAL TESTING **TestAmerica** 

Job Number: 680-112745-1

Client: Ashland Inc

Login Number: 112745 List Source: TestAmerica Savannah

List Number: 1

Creator: White, Menica R

oreator. Write, memoa K		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



October 21, 2015

Mr. Mark Schumacher Antea USA Inc

5788 Widewaters Pkwy Syracuse, NY 13214

ALS Environmental ALS Group USA, Corp 1565 Jefferson Rd, Building 300, Suite 360 Rochester, NY 14623

T: 585-288-5380 F: 585-288-8475 www.alsglobal.com

Analytical Report for Service Request No: R1508835

Laboratory Results for: Queensbury, NY

Dear Mr. Schumacher:

Enclosed are the results of the sample(s) submitted to our laboratory on October 15, 2015. For your reference, these analyses have been assigned our service request number R1508835.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as OC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Lisa Reyes

Project Manager

Page 1 of

### ALS Environmental

Client:

Antea USA Inc.

Service Request No.:

R1508835

Project:

Queensbury

Date Received:

10/14/15

Sample Matrix:

Water

Project/Case No.:

### **CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS).

### Sample Receipt

Two (2) water samples and one (1) Trip Blank were received for analysis at ALS Environmental on 10/14/15. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

### **Volatile Organics**

The Continuing Calibration Verification (CCV) standard exceeded 20% difference for 1,4-Dioxane, Bromomethane, Chloroethane, Chloroethane and Vinyl Chloride on 10/15/15Run. All detected concentrations for these compounds in samples associated with their relevant CCV should be considered as estimated.

The Method Blank was free from contamination.

The Laboratory Control Sample (LCS) recoveries were outside of the control limits high for 2-Hexanone, Chlorethane and Chloromethane. All exceedences have been flagged with a "\*". No data was affected for these possible high bias recoveries.

The samples were properly preserved and analyzed within the appropriate holding times for the method.

No other analytical or quality control problems were encountered during analysis.

### SemiVolatile Organics

The Continuing Calibration Verification (CCV) standard exceeded 20% difference for Benzaldehyde on the 10/19/15Run. All detected concentrations for these compounds in samples associated with their relevant CCV should be considered as estimated.

The Method Blank was free from contamination.

The Laboratory Control Sample (LCS) and LCS Duplicate (LCSD) recoveries were outside of the control limits high on the LCS or LCSD for several compounds. Several RPD's were outside limits. All exceedences have been flagged with a "\*". No data was affected for these possible high bias recoveries.

The samples were properly preserved and analyzed within the appropriate holding times for the method.

No other analytical or quality control problems were encountered during analysis.

### Page 2 R1508835

# **Inorganics & Metals**

The LCS recoveries were acceptable for all analytes.

The Method Blanks were free of contamination.

The samples were properly preserved and analyzed within the appropriate holding times for the method. The ph data has been flagged as "H" with its associated temperature since the samples were analyzed outside the "immediate" holding time for this analysis. The samples are analyzed as soon as possible upon receipt in the lab.

No analytical or quality control problems were encountered during analysis.

# **CASE NARRATIVE**

This report contains analytical results for the following samples: Service Request Number: R1508835

<u>Lab ID</u>	Client ID
R1508835-001	FRAC-1
R1508835-002	FRAC-3
R1508835-003	TRIP BLANK



# REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics-Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)

  The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications1

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # B87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <a href="http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads">http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads</a>



# INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

# Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid	9030B
Soluble	
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual	SM 4500-CN-G
Cyanide	
SM 4500-CN-E WAD	SM 4500-CN-I
Cyanide	

# Solid/Soil/Non-Aqueous Matrix

A Lord of the sale and	Duringustion
Analytical Method	Preparation
	Method
6010C	3050B
6020A	3050B
6010C TCLP (1311)	3005A/3010A
extract	
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/	DI extraction
353.2/ SM 2320B/ SM	
5210B/ 9056A Anions	

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Analytical Report

Client:

Antea USA Inc

Project: Sample Matrix:

Lab Code:

Sample Name:

Queensbury, NY

Water

water

FRAC-1

R1508835-001

Service Request: R1508835

**Date Collected:** 10/14/15 1110

Date Received: 10/15/15

Basis: NA

# **General Chemistry Parameters**

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.050	U	mg/L	0.050	10	NA	10/19/15 00:58	
Chemical Oxygen Demand, Total	410.4	16.7		mg/L	5.0	1	NA	10/16/15 09:09	
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	10/15/15 10:59	
Cyanide, Total	9012B	0.010	U	mg/L	0.010	1	10/16/15	10/19/15 10:37	
pH	SM 4500-H+ B	8.11		pH Units		1	NA	10/15/15 18:35	Η
Phenolics, Total Recoverable	420.4 Modified	0.0077		mg/L	0.0050	1	NA	10/15/15 09:25	
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	1.6		mg/L	1.0	1	NA	10/15/15 18:48	
Sulfide	SM 4500-S2-F-2000(20	1.0	U	mg/L	1.0	1	NA	10/16/15 11:15	
Temperature of pH Analysis	SM 4500-H+ B	20.2		deg C		1	NA	10/15/15 18:35	H

Analytical Report

Client: Project: Antea USA Inc Queensbury, NY

Sample Matrix:

Water

Service Request: R1508835 Date Collected: 10/14/15 1110 Date Received: 10/15/15

Sample Name: Lab Code:

FRAC-1 R1508835-001

Basis: NA

# **Inorganic Parameters**

Analuta Nama	Method	Result Q	Units	MRL	Dilution Date Date Factor Extracted Analyzed Note
Analyte Name					1 10/15/15 10/18/15 15:22
Aluminum, Total	6010C	0.10 U	_	0.10	1 10/15/15 10/18/15 15:22
Antimony, Total	6010C	0.060 U	_	0.060	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1 10/15/15 10/18/15 15:22
Barium, Total	6010C	0.861	mg/L	0.020	1 10/15/15 10/18/15 15:22
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1 10/15/15 10/18/15 15:22
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1 10/15/15 10/18/15 15:22
Calcium, Total	6010C	25,3	mg/L	1.0	1 10/15/15 10/18/15 15:22
Chromium, Total	6010C	0.010 U	mg/L	0.010	1 10/15/15 10/18/15 15:22
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1 10/15/15 10/18/15 15:22
Copper, Total	6010C	0.020 U	mg/L	0.020	1 10/15/15 10/18/15 15;22
Iron, Total	6010C	0.63	mg/L	0.10	1 10/15/15 10/18/15 15:22
Lead, Total	6010C	0.050 Ù		0.050	1 10/15/15 10/18/15 15:22
Magnesium, Total	6010C	2.3	mg/L	1.0	1 10/15/15 10/18/15 15:22
Manganese, Total	6010C	0.012	mg/L	0.010	1 10/15/15 10/18/15 15:22
Mercury, Total	7470A	0.00020 U	J mg/L	0.00020	1 10/15/15 10/16/15 12:06
Nickel, Total	6010C	0.040 U	mg/L	0.040	1 10/15/15 10/18/15 15:22
Potassium, Total	6010C	2.0 U	J mg/L	2.0	1 10/15/15 10/18/15 15:22
Selenium, Total	6010C	0.010 U	mg/L	0.010	1 10/15/15 10/18/15 15:22
Silver, Total	6010C	0.010 U	J mg/L	0.010	1 10/15/15 10/18/15 15:22
Sodium, Total	6010C	1.0 U	J mg/L	1.0	1 10/15/15 10/18/15 15:22
Thallium, Total	6010C	0.010 U	J mg/L	0.010	1 10/15/15 10/18/15 15:22
Vanadium, Total	6010C	0.050 U	J mg/L	0.050	1 10/15/15 10/18/15 15:22
Zinc, Total	6010C	0.020 U	J mg/L	0.020	1 10/15/15 10/18/15 15:22

### Analytical Report

Client: Project: Antea USA Inc Queensbury, NY

Sample Matrix:

Water

Sample Name: Lab Code: FRAC-1 R1508835-001 Service Request: R1508835
Date Collected: 10/14/15 1110
Date Received: 10/15/15

Units: µg/L
Basis: NA

# Volatile Organic Compounds by GC/MS

**Analytical Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	Q	MRL ·	Dilution Factor	Date Extracted		Extraction Analys Lot Lot	is Note
1,1,1-Trichloroethane (TCA)	5.0	U	5.0	1	NA	10/15/15 14:29	9 46714	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1	NA	10/15/15 14:29	9 46714	5
1,1,2-Trichloroethane	5.0	U	5.0	1	NA	10/15/15 14:29	9 46714	5
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1	NA	10/15/15 14:29		
1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	1	NA	10/15/15 14:29		
1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	1	NA	10/15/15 14:29	9 46714	5
1,2,3-Trichlorobenzene	5.0		5.0	1	NA	10/15/15 14:29		
1,2,4-Trichlorobenzene	5.0		5.0	1	NA	10/15/15 14:29		
1,2-Dibromo-3-chloropropane (DBCP)	5.0	U	5.0	1	NA	10/15/15 14:29	9 46714	-5
1,2-Dibromoethane	5.0	U	5.0	1	NA	10/15/15 14:29		
1,2-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:29		
1,2-Dichloroethane	5.0	U	5.0	1	NA	10/15/15 14:29	9 46714	.5
1,2-Dichloropropane	5.0	U	5.0	1	NA	10/15/15 14:29		
1,3-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:2:		
1,4-Dichlorobenzene	5.0	U	5.0	. 1	NA	10/15/15 14:2:	9 46714	5
1,4-Dioxane	100	U	100	1	NA	10/15/15 14:2		
2-Butanone (MEK)	10	U	10	1	NA	10/15/15 14:2:		
2-Hexanone	10	U	10	1	NA	10/15/15 14:2	9 46714	15
4-Methyl-2-pentanone	10		10	1	NA	10/15/15 14:2		
Acetone	10		10	1	NA	10/15/15 14:29		
Benzene	5.0	U	5.0	1	NA	10/15/15 14:2	1 <u>=</u>	
Bromochloromethane	5.0		5.0	1	NA	10/15/15 14:2		
Bromodichloromethane	5.0		5.0	1	NA	10/15/15 14:2		
Bromoform	5.0	U	5.0	1	NA	10/15/15 14:2	9 4671	15
Bromomethane	5.0		5.0	1	NA	10/15/15 14:2		
Carbon Disulfide	10		10	1	NA	10/15/15 14:2		
Carbon Tetrachloride	5.0	U	5.0	1	NA	10/15/15 14:2	9 4671	15
Chlorobenzene	5.0		5.0	1	NA	10/15/15 14:2		
Chloroethane	5.0		5.0	1	NA	10/15/15 14:2		
Chloroform	5.0	U	5.0	1	NA	10/15/15 14:2	9 4671	15
Chloromethane	5.0	U	5.0	1	NA	10/15/15 14:2		
Cyclohexane	10		10	1	NA	10/15/15 14:2		
Dibromochloromethane	5.0	U	5.0	1	NA	10/15/15 14:2	9 4671	15
Dichlorodifluoromethane (CFC 12)	5.0		5.0	1	NA	10/15/15 14:2		
Dichloromethane	5.0	U	5.0	1	NA	10/15/15 14:2		
Ethylbenzene	5.0	U	5.0	1	NA NA	10/15/15 14:2	9 4671	45 

Analytical Report

Client:

Antea USA Inc

Project:

Queensbury, NY

Sample Matrix:

Sample Name: Lab Code:

FRAC-1 R1508835-001

Water

Service Request: R1508835 **Date Collected:** 10/14/15 1110

**Date Received:** 10/15/15

Units: µg/L Basis: NA

# Volatile Organic Compounds by GC/MS

Analytical Method: 8260C Prep Method:

EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	5.0	U	5.0	1	NA	10/15/15 14:29	9	467145	
Methyl Acetate	10	U	10	1	NA	10/15/15 14:29	9	467145	
Methyl tert-Butyl Ether	5.0	U	5.0	1	NA	10/15/15 14:29	9	467145	
Methylcyclohexane	10	U	10	1	NA	10/15/15 14:2	9	467145	
Styrene	5.0	U	5.0	1	NA	10/15/15 14:2	9	467145	
Tetrachloroethene (PCE)	5.0	U	5.0	1	NA	10/15/15 14:2	9	467145	
Toluene	5.0	U	5.0	1	NA	10/15/15 14:2	9	467145	
Trichloroethene (TCE)	5.0	U	5.0	1	NA	10/15/15 14:2	9	467145	
Trichlorofluoromethane (CFC 11)	5.0	U	5.0	1	NA	10/15/15 14:2	9	467145	
Vinyl Chloride	5.0	U	5.0	1	NA	10/15/15 14:2	9	467145	
cis-1,2-Dichloroethene	5.0	U	5.0	1	NA	10/15/15 14:2	9	467145	
cis-1,3-Dichloropropene	5.0	U	5.0	i	NA	10/15/15 14:2	9	467145	
m,p-Xylenes	5.0	U	5.0	1	NA	10/15/15 14:2	9	467145	
o-Xylene	5.0	U	5.0	1	NA	10/15/15 14:2	9	467145	
trans-1,2-Dichloroethene	5.0	U	5.0	1	NA	10/15/15 14:2	9	467145	
trans-1,3-Dichloropropene	5.0	U	5.0	1	NA	10/15/15 14:2	9	467145	

Surrogate Name	%Rec	Control Limits	Date Analyzed Q	
4-Bromofluorobenzene	92	85-122	10/15/15 14:29	:
Dibromofluoromethane	96	89-119	10/15/15 14:29	
Toluene-d8	101	87-121	10/15/15 14:29	

Analytical Report

Client: Project: Antea USA Inc Queensbury, NY

Sample Matrix:

Water

Sample Name: Lab Code:

FRAC-1

R1508835-001

Service Request: R1508835 Date Collected: 10/14/15 1110

Date Received: 10/15/15

Units: µg/L Basis: NA

# Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D Prep Method:

EPA 3510C

				Dilution	Date	Date :	Extraction	Analysis	
Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Lot	Note
1,2,4,5-Tetrachlorobenzene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
2,3,4,6-Tetrachlorophenol	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
2,4,5-Trichlorophenol	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
2,4,6-Trichlorophenol	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
2,4-Dichlorophenol	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
2,4-Dimethylphenol	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
2,4-Dinitrophenol	47	U	47	1		10/19/15 19:34		467903	
2,4-Dinitrotoluene	9.4	U	9.4	1		10/19/15 19:34		467903	
2,6-Dinitrotoluene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
2-Chloronaphthalene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
2-Chlorophenol	9.4	U	9.4	1		10/19/15 19:34		467903	
2-Methylnaphthalene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
2-Methylphenol	9.4	U	9,4	1	10/15/15	10/19/15 19:34	247341	467903	
2-Nitroaniline	47	U	47	1	10/15/15	10/19/15 19:34	247341	467903	
2-Nitrophenol	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
3,3'-Dichlorobenzidine	9.4	U	9,4	1	10/15/15	10/19/15 19:34	247341	467903	
3- and 4-Methylphenol Coelution	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
3-Nitroaniline	47	U	47	1	10/15/15	10/19/15 19:34	247341	467903	
4,6-Dinitro-2-methylphenol	47	U	47	1	10/15/15	10/19/15 19:34	247341	467903	
4-Bromophenyl Phenyl Ether	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
4-Chloro-3-methylphenol	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
4-Chloroaniline	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
4-Chlorophenyl Phenyl Ether	9,4	U	9.4	1	10/15/15	10/19/15 19:34	1 247341	467903	
4-Nitroaniline	47	U	47	1	10/15/15	10/19/15 19:34	1 247341	467903	
4-Nitrophenol	47	U	47	1	10/15/15	10/19/15 19:34	1 247341	467903	
Acenaphthene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	4 247341	467903	
Acenaphthylene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	4 247341	467903	
Acetophenone	9.4	U	9.4	1	10/15/15	10/19/15 19:34	4 247341	467903	
Anthracene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	4 247341	467903	
Atrazine	9.4	U	9.4	1	10/15/15	10/19/15 19:34	4 247341	467903	
Benz(a)anthracene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	4 247341	467903	
Benzaldehyde	47	U	47	1	10/15/15	10/19/15 19:34	4 247341	467903	
Benzo(a)pyrene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	4 247341	467903	
Benzo(b)fluoranthene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	4 247341	467903	
Benzo(g,h,i)perylene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	4 247341	467903	
Benzo(k)fluoranthene	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Biphenyl	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	·

Analytical Report

Client: Project: Antea USA Inc Queensbury, NY

Sample Matrix:

Water

Sample Name: Lab Code:

FRAC-1 R1508835-001 Service Request: R1508835 **Date Collected:** 10/14/15 1110

Date Received: 10/15/15

Units: µg/L Basis: NA

# Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D Prep Method:

EPA 3510C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
2,2'-Oxybis(1-chloropropane)	9,4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Bis(2-chloroethoxy)methane	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Bis(2-chloroethyl) Ether	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Bis(2-ethylhexyl) Phthalate	9,4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Butyl Benzyl Phthalate	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Caprolactam	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Carbazole	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Chrysene	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Di-n-butyl Phthalate	9.4	U	9,4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Di-n-octyl Phthalate	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Dibenz(a,h)anthracene	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Dibenzofuran	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Diethyl Phthalate	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Dimethyl Phthalate	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Fluoranthene	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Fluorene	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Hexachlorobenzene	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Hexachlorobutadiene	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Hexachlorocyclopentadiene	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Hexachloroethane	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Indeno(1,2,3-cd)pyrene	9.4	U	9.4	1 .	10/15/15	10/19/15 19:3	4 247341	467903	
Isophorone	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
N-Nitrosodi-n-propylamine	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
N-Nitrosodiphenylamine	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Naphthalene	9.4	U	9,4	1	10/15/15	10/19/15 19:3	4 247341	467903	_
Nitrobenzene	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Pentachlorophenol (PCP)	47	U	47	1	10/15/15	10/19/15 19:3	4 247341	467903	
Phenanthrene	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Phenol	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	
Pyrene	9.4	U	9.4	1	10/15/15	10/19/15 19:3	4 247341	467903	

Analytical Report

Client:

Antea USA Inc

Project:

Queensbury, NY

Sample Matrix:

Water

Sample Name: Lab Code:

FRAC-1

R1508835-001

Service Request: R1508835

Date Collected: 10/14/15 1110 Date Received: 10/15/15

> Units: Percent Basis: NA

# Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D Prep Method:

EPA 3510C

Surrogate Name	%Rec	Control Limits	Date Analyzed Q	
2,4,6-Tribromophenol	57	28-157	10/19/15 19:34	
2-Fluorobiphenyl	76	39-119	10/19/15 19:34	
2-Fluorophenol	46	10-105	10/19/15 19:34	
Nitrobenzene-d5	103	37-117	10/19/15 19:34	
Phenol-d6	39	10-107	10/19/15 19:34	
Terphenyl-d14	97	40-133	10/19/15 19:34	

Analytical Report

Client:

Antea USA Inc

Project:

Queensbury, NY

Service Request: R1508835 **Date Collected:** 10/14/15 1120

Sample Matrix:

Water

**Date Received:** 10/15/15

Sample Name: Lab Code:

FRAC-3

R1508835-002

Basis: NA

# **General Chemistry Parameters**

Analyte Name	Method	Result (	Q Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.050 J	U mg/L	0.050	10	NA	10/16/15 21:32	
Chemical Oxygen Demand, Total	410.4	25.6	mg/L	5.0	1	NA	10/16/15 09:09	
Chromium, Hexavalent	7196A	0.010 J	U mg/L	0.010	1	NA	10/15/15 10:59	
Cyanide, Total	9012B	0.010 1	U mg/L	0.010	1	10/16/15	10/19/15 10:38	
pH	SM 4500-H+B	8.11	pH Units		1	NA	10/15/15 18:35	Н
Phenolics, Total Recoverable	420.4 Modified	0.0069	mg/L	0.0050	1	NA	10/15/15 09:25	
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	6.6	mg/L	3.4	1	NA	10/15/15 18:48	
Sulfide	SM 4500-S2-F-2000(20	1.0 U	U mg/L	1.0	1	NA	10/16/15 11:15	
Temperature of pH Analysis	SM 4500-H+B	20.3	deg C		1	NA	10/15/15 18:35	H

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Analytical Report

Client:

Antea USA Inc Queensbury, NY

Project: Sample Matrix:

Water

Service Request: R1508835 **Date Collected:** 10/14/15 1120

**Date Received:** 10/15/15

Sample Name: Lab Code:

FRAC-3 R1508835-002

Basis: NA

# **Inorganic Parameters**

				÷	Dilution Date Date
Analyte Name	Method	Result Q	Units	MRL	Factor Extracted Analyzed Note
Aluminum, Total	6010C	0.17	mg/L	0.10	1 10/15/15 10/18/15 15:28
Antimony, Total	6010C	0.060 U	mg/L	0.060	1 10/15/15 10/18/15 15:28
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1 10/15/15 10/18/15 15:28
Barium, Total	6010C	0.890	mg/L	0.020	1 10/15/15 10/18/15 15:28
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1 10/15/15 10/18/15 15:28
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1 10/15/15 10/18/15 15:28
Calcium, Total	6010C	25.9	mg/L	1.0	1 10/15/15 10/18/15 15:28
Chromium, Total	6010C	0.021	mg/L	0.010	1 10/15/15 10/18/15 15:28
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1 10/15/15 10/18/15 15:28
Copper, Total	6010C	0.020 U	mg/L	0.020	1 10/15/15 10/18/15 15:28
Iron, Total	6010C	1.10	mg/L	0.10	1 10/15/15 10/18/15 15:28
Lead, Total	6010C	0.050 U	mg/L	0.050	1 10/15/15 10/18/15 15:28
Magnesium, Total	6010C	2.4	mg/L	1.0	1 10/15/15 10/18/15 15:28
Manganese, Total	6010C	0.015	mg/L	0.010	1 10/15/15 10/18/15 15:28
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1 10/15/15 10/16/15 12:08
Nickel, Total	6010C	0.040 U	mg/L	0.040	1 10/15/15 10/18/15 15:28
Potassium, Total	6010C	2.0 U	mg/L	2.0	1 10/15/15 10/18/15 15:28
Selenium, Total	6010C	0.010 U	mg/L	0.010	1 10/15/15 10/18/15 15:28
Silver, Total	6010C	0,010 U	mg/L	0.010	1 10/15/15 10/18/15 15:28
Sodium, Total	6010C	1.0 U	mg/L	1.0	1 10/15/15 10/18/15 15:28
Thallium, Total	6010C	0.010 U	mg/L	0.010	1 10/15/15 10/18/15 15:28
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1 10/15/15 10/18/15 15:28
Zinc, Total	6010C	0.020 U	mg/L	0.020	1 10/15/15 10/18/15 15:28

Analytical Report

Client:

Antea USA Inc Queensbury, NY

Project: Sample Matrix:

Water

Sample Name: Lab Code: FRAC-3 R1508835-002 Service Request: R1508835

Date Collected: 10/14/15 1120

Date Received: 10/15/15

Units: μg/L Basis: NA

# Volatile Organic Compounds by GC/MS

**Analytical Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	5.0	U	5.0	1	NA	10/15/15 14:5	3	467145	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1	NA	10/15/15 14:5	3	467145	
1,1,2-Trichloroethane	5.0	U	5.0	1	NA	10/15/15 14:5	3	467145	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1	NA	10/15/15 14:5		467145	
1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	1	NA	10/15/15 14:5		467145	
1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	1	NA	10/15/15 14:5	3	467145	
1,2,3-Trichlorobenzene	5.0		5.0	1	NA	10/15/15 14:5		467145	
1,2,4-Trichlorobenzene	5.0		5.0	1	NA	10/15/15 14:5	3	467145	
1,2-Dibromo-3-chloropropane (DBCP)	5.0	U	5.0	1	NA	10/15/15 14:5	3	467145	
1,2-Dibromoethane	5.0	U	5.0	1	NA	10/15/15 14:5		467145	
1,2-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:5		467145	
1,2-Dichloroethane	5.0	U	5.0	1	NA	10/15/15 14:5	3	467145	
1,2-Dichloropropane	5.0	U	5.0	1	NA	10/15/15 14:5		467145	
1,3-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:5		467145	
1,4-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:5	3	467145	
1,4-Dioxane	100		100	1	NA	10/15/15 14:5		467145	
2-Butanone (MEK)		U	10	1	NA	10/15/15 14:5		467145	
2-Hexanone	10	U	10	1	NA	10/15/15 14:5	3	467145	
4-Methyl-2-pentanone		U	10	1	NA	10/15/15 14:5		467145	
Acetone		U	10	1	NA	10/15/15 14:5		467145	
Benzene	5.0	U.	5.0	1	NA	10/15/15 14:5	3	467145	
Bromochloromethane	5.0		5.0	1	NA	10/15/15 14:5		467145	
Bromodichloromethane	5.0		5.0	1	NA	10/15/15 14:5		467145	
Bromoform	5.0	U	5.0	1	NA	10/15/15 14:5		467145	
Bromomethane	5.0		5.0	1	NA	10/15/15 14:5		467145	
Carbon Disulfide		U	10	1	NA	10/15/15 14:5		467145	
Carbon Tetrachloride	5.0	U	5.0	1	NA	10/15/15 14:5	53	467145	
Chlorobenzene	5.0		5.0	1	NA	10/15/15 14:5		467145	
Chloroethane	5.0		5.0	1	NA	10/15/15 14:5		467145	
Chloroform	5.0	U	5.0	1	NA	10/15/15 14:5	53	467145	
Chloromethane	5.0		5.0	1	NA	10/15/15 14:5		467145	
Cyclohexane		U	10	1	NA	10/15/15 14:5		467145	
Dibromochloromethane	5.0	U	5.0	1	NA	10/15/15 14:5	i3	467145	
Dichlorodifluoromethane (CFC 12)	5.0		5.0	1	NA	10/15/15 14:5		467145	
Dichloromethane	5.0		5.0	1	NA	10/15/15 14:5		467145	
Ethylbenzene	5.0	U	5.0	1	NA	10/15/15 14:5	53	467145	

Analytical Report

Client:

Antea USA Inc

Project: Sample Matrix: Queensbury, NY Water

Sample Name:

FRAC-3

Lab Code:

R1508835-002

Service Request: R1508835

Date Collected: 10/14/15 1120

Date Received: 10/15/15

Units: μg/L Basis: NA

## Volatile Organic Compounds by GC/MS

**Analytical Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Analysis Lot Lot	Note
Isopropylbenzene (Cumene)	5.0 U	5.0	1	NA	10/15/15 14:5	3 467145	
Methyl Acetate	10 U	10	1	NA	10/15/15 14:5	3 467145	
Methyl tert-Butyl Ether	5.0 U	5.0	1	NA	10/15/15 14:5	3 467145	
Methylcyclohexane	10 U	10	1	NA	10/15/15 14:5	3 467145	
Styrene	5.0 U	5.0	1	NA	10/15/15 14:5	3 467145	
Tetrachloroethene (PCE)	5.0 U	5.0	1	NA	10/15/15 14:5	3 467145	
Toluene	5.0 U	5.0	1	NA	10/15/15 14:5	3 467145	_
Trichloroethene (TCE)	5.0 U	5.0	1	NA	10/15/15 14:5	3 467145	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	NA	10/15/15 14:5	3 467145	
Vinyl Chloride	5.0 U	5.0	1	NA	10/15/15 14:5	3 467145	
cis-1,2-Dichloroethene	5.0 U	5.0	1	NA	10/15/15 14:5	3 467145	
cis-1,3-Dichloropropene	5.0 U	5.0	1	NA	10/15/15 14:5	3 467145	
m,p-Xylenes	5.0 U	5.0	1	NA	10/15/15 14:5	3 467145	
o-Xylene	5.0 U	5.0	1	NA	10/15/15 14:5	3 467145	
trans-1,2-Dichloroethene	5.0 U	5.0	1	NA	10/15/15 14:5	3 467145	
trans-1,3-Dichloropropene	5.0 U	5.0	1	NA	10/15/15 14:5	3 467145	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	
4-Bromofluorobenzene	92	85-122	10/15/15 14:53		
Dibromofluoromethane	95	89-119	10/15/15 14:53		
Toluene-d8	101	87-121	10/15/15 14:53		

Analytical Report

Client: Project: Antea USA Inc Queensbury, NY

Sample Matrix:

Water

Sample Name: Lab Code:

FRAC-3 R1508835-002 Service Request: R1508835 Date Collected: 10/14/15 1120

**Date Received:** 10/15/15

Units: µg/L Basis: NA

## Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted		Extraction Lot	Analysis Lot	Note
1,2,4,5-Tetrachlorobenzene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2,3,4,6-Tetrachlorophenol	9.4	U	9.4	1		10/19/15 20:00		467903	
2,4,5-Trichlorophenol	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2,4,6-Trichlorophenol	9,4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2,4-Dichlorophenol	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2,4-Dimethylphenol	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2,4-Dinitrophenol	47	U	47	1	10/15/15	10/19/15 20:00	247341	467903	
2,4-Dinitrotoluene	9.4	U	9.4	1		10/19/15 20:00		467903	
2,6-Dinitrotoluene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2-Chloronaphthalene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2-Chlorophenol	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2-Methylnaphthalene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2-Methylphenol	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2-Nitroaniline	47	U	47	1 .	10/15/15	10/19/15 20:00	247341	467903	
2-Nitrophenol	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
3,3'-Dichlorobenzidine	9,4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
3- and 4-Methylphenol Coelution	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
3-Nitroaniline	47	U	47	1	10/15/15	10/19/15 20:00	247341	467903	
4,6-Dinitro-2-methylphenol	47	U	47	1	10/15/15	10/19/15 20:00	247341	467903	
4-Bromophenyl Phenyl Ether	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
4-Chloro-3-methylphenol	9.4	$\mathbf{U}$	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
4-Chloroaniline	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
4-Chlorophenyl Phenyl Ether	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
4-Nitroaniline	47	U	47	1	10/15/15	10/19/15 20:00	247341	467903	
4-Nitrophenol	47	U	47	1	10/15/15	10/19/15 20:00	247341	467903	
Acenaphthene	9.4		9.4	1		10/19/15 20:00		467903	
Acenaphthylene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Acetophenone	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Anthracene	9.4	U	9.4	1		10/19/15 20:00		467903	
Atrazine	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Benz(a)anthracene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Benzaldehyde	47	U	47	1	10/15/15	10/19/15 20:00	247341	467903	
Benzo(a)pyrene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Benzo(b)fluoranthene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Benzo(g,h,i)perylene	9.4	U	9.4	1		10/19/15 20:00		467903	
Benzo(k)fluoranthene	9.4	$\mathbf{U}_{\perp}$	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Biphenyl	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	

Analytical Report

Client:

Antea USA Inc

Project: Sample Matrix: Queensbury, NY

Sample Name:

Water

Lab Code:

FRAC-3 R1508835-002 Service Request: R1508835

**Date Collected:** 10/14/15 1120 Date Received: 10/15/15

> Units: µg/L Basis: NA

## Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D Prep Method:

EPA 3510C

				Dilution	Date		Extraction		
Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Lot	Note
2,2'-Oxybis(1-chloropropane)	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Bis(2-chloroethoxy)methane	9.4	U	9.4	1		10/19/15 20:00		467903	
Bis(2-chloroethyl) Ether	9,4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	_
Bis(2-ethylhexyl) Phthalate	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Butyl Benzyl Phthalate	9.4	U	9.4	1		10/19/15 20:00		467903	
Caprolactam	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Carbazole	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Chrysene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Di-n-butyl Phthalate	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Di-n-octyl Phthalate	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Dibenz(a,h)anthracene	9.4	U	9.4	1		10/19/15 20:00		467903	
Dibenzofuran	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Diethyl Phthalate	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Dimethyl Phthalate	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Fluoranthene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Fluorene	9.4	U	9.4	1		10/19/15 20:00		467903	
Hexachlorobenzene	9.4		9.4	1		10/19/15 20:00		467903	
Hexachlorobutadiene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Hexachlorocyclopentadiene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Hexachloroethane	9.4	U	9.4	1		10/19/15 20:00		467903	
Indeno(1,2,3-cd)pyrene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	0 247341	467903	
Isophorone	9.4	U	9.4	1	10/15/15	10/19/15 20:00	0 247341	467903	
N-Nitrosodi-n-propylamine	9.4	U	9.4	I		10/19/15 20:00		467903	
N-Nitrosodiphenylamine	9.4	U	9.4	1	10/15/15	10/19/15 20:00	0 247341	467903	
Naphthalene	9.4	U	9.4	1	10/15/15	10/19/15 20:0	0 247341	467903	
Nitrobenzene	9.4	U	9.4	1	10/15/15	10/19/15 20:0	0 247341	467903	
Pentachlorophenol (PCP)	47	U	47	1	I0/15/15	10/19/15 20:0	0 247341	467903	
Phenanthrene	9.4	U	9.4	1		10/19/15 20:0		467903	
Phenol	9.4	U	9.4	1	10/15/15	10/19/15 20:0	0 247341	467903	
Pyrene	9.4	U	9.4	1	10/15/15	10/19/15 20:0	0 247341	467903	

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Analytical Report

Client:

Antea USA Inc

Project:

Queensbury, NY

Sample Matrix: Sample Name:

Water

FRAC-3

Lab Code:

R1508835-002

Service Request: R1508835

**Date Collected:** 10/14/15 1120 Date Received: 10/15/15

> Units: Percent Basis: NA

## Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D Prep Method:

EPA 3510C

Surrogate Name	%Rec	Control Limits	Date Analyzed Q	
2,4,6-Tribromophenol	54	28-157	10/19/15 20:00	
2-Fluorobiphenyl	78	39-119	10/19/15 20:00	
2-Fluorophenol	34	10-105	10/19/15 20:00	_
Nitrobenzene-d5	50	37-117	10/19/15 20:00	
Phenol-d6	23	10-107	10/19/15 20:00	
Terphenyl-d14	92	40-133	10/19/15 20:00	

## Analytical Report

Client: Project: Antea USA Inc Queensbury, NY

Sample Matrix:

Water

Sample Name: Lab Code:

TRIP BLANK R1508835-003 Service Request: R1508835 Date Collected: 10/14/15

> Date Received: 10/15/15 Units: µg/L Basis: NA

## Volatile Organic Compounds by GC/MS

Analytical Method: 8260C Prep Method:

EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted		Extraction Analysis Lot Lot	Note
1,1,1-Trichloroethane (TCA)	5.0	U	5.0	1	NA	10/15/15 14:0:	5 467145	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1	NA	10/15/15 14:0:	467145	
1,1,2-Trichloroethane	5.0	U	5.0	1	NA	10/15/15 14:0:	5 467145	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1	NA	10/15/15 14:0:	5 467145	
1,1-Dichloroethane (1,1-DCA)	5.0		5.0	1	NA	10/15/15 14:0:		
1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	1	NA	10/15/15 14:0:	467145	
1,2,3-Trichlorobenzene	5.0		5.0	1	NA	10/15/15 14:0:		
1,2,4-Trichlorobenzene	5.0		5.0	1	NA	10/15/15 14:0:		
1,2-Dibromo-3-chloropropane (DBCP)	5.0	U	5.0	1	NA	10/15/15 14:0:	5 467145	
1,2-Dibromoethane	5.0	U	5.0	1	NA	10/15/15 14:0:		
1,2-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:0:	5 467145	
1,2-Dichloroethane	5.0	U	5.0	1	NA	10/15/15 14:0:	5 467145	
1,2-Dichloropropane	5.0	U	5.0	1	NA	10/15/15 14:0	5 467145	
1,3-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:0:	5 467145	
1,4-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:0:	5 467145	
1,4-Dioxane	100	U	100	1	NA	10/15/15 14:0		
2-Butanone (MEK)	10	U	10	1	NA	10/15/15 14:0:		
2-Hexanone	10	U	10	1	NA	10/15/15 14:0	5 467145	
4-Methyl-2-pentanone	10		10	1	NA	10/15/15 14:0		
Acetone	10		10	1	NA	10/15/15 14:0		
Benzene	5.0	U	5.0	1	ÑΑ	10/15/15 14:0	5 467145	
Bromochloromethane	5.0	U	5.0	1	NA	10/15/15 14:0		
Bromodichloromethane	5.0		5.0	1	NA	10/15/15 14:0		
Bromoform	5.0	U	5.0	1	NA	10/15/15 14:0	5 467145	
Bromomethane	5.0	U	5.0	1	NA	10/15/15 14:0		
Carbon Disulfide	10	U	10	1	NA	10/15/15 14:0		
Carbon Tetrachloride	5.0	U	5.0	1	NA	10/15/15 14:0	5 467145	
Chlorobenzene	5.0		5.0	1	NA	10/15/15 14:0		
Chloroethane	5.0	U	5.0	1	NA	10/15/15 14:0		
Chloroform	5.0	U	5.0	1	NA	10/15/15 14:0	5 467145	
Chloromethane	5.0	U	5.0	1	NA	10/15/15 14:0		
Cyclohexane	10	U	10	1	NA	10/15/15 14:0		
Dibromochloromethane	5.0	U	5.0	1	NA	10/15/15 14:0	5 467145	
Dichlorodifluoromethane (CFC 12)	5.0	U	5.0	1	NA	10/15/15 14:0		
Dichloromethane	5.0	U	5.0	1	NA	10/15/15 14:0		
Ethylbenzene	5.0	U	5.0	1	NA	10/15/15 14:0	5 467145	

Analytical Report

Client:

Antea USA Inc

Project: Sample Matrix: Queensbury, NY Water

Sample Name: Lab Code:

TRIP BLANK

R1508835-003

Service Request: R1508835

Date Collected: 10/14/15 Date Received: 10/15/15

> Units: µg/L Basis: NA

## Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Prep Method: EPA 5030C

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	5.0 U	5.0	1	NA	10/15/15 14:0:	5	467145	
Methyl Acetate	10 U	10	1	NA	10/15/15 14:0	5	467145	
Methyl tert-Butyl Ether	5.0 U	5.0	1	NA	10/15/15 14:0	5	467145	
Methylcyclohexane	10 U	10	1	NA	10/15/15 14:0	5	467145	
Styrene	5.0 U	5.0	1	NA	10/15/15 14:0	5	467145	
Tetrachloroethene (PCE)	5.0 U	5.0	1	NA	10/15/15 14:0	5	467145	
Toluene	5.0 U	5.0	1	NA	10/15/15 14:0	5	467145	
Trichloroethene (TCE)	5.0 U	5.0	1	NA	10/15/15 14:0	5	467145	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	NA	10/15/15 14:0	5	467145	
Vinyl Chloride	5.0 U	5.0	1	NA	10/15/15 14:0	5	467145	
cis-1,2-Dichloroethene	5.0 U	5.0	1	NA	10/15/15 14:0	5	467145	
cis-1,3-Dichloropropene	5.0 U	5.0	1	NA	10/15/15 14:0	5	467145	
m,p-Xylenes	5.0 U	5.0	1	NA	10/15/15 14:0	5	467145	
o-Xylene	5.0 U	5.0	1	NA	10/15/15 14:0	5	467145	
trans-1,2-Dichloroethene	5.0 U	5.0	1	NA	10/15/15 14:0	5	467145	
trans-1,3-Dichloropropene	5.0 U	5.0	1	NA	10/15/15 14:0	5	467145	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	 91	85-122	10/15/15 14:05	
Dibromofluoromethane	93	89-119	10/15/15 14:05	
Toluene-d8	98	87-121	10/15/15 14:05	

Analytical Report

Client:

Antea USA Inc

Project:

Queensbury, NY

Sample Matrix:

Water

Sample Name: Lab Code:

Method Blank R1508835-MB1

Service Request: R1508835

Date Collected: NA Date Received: NA

Basis: NA

## **General Chemistry Parameters**

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050	U	mg/L	0.0050	1	NA	10/16/15 14:51	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	1	NA	10/16/15 09:09	
Chromium, Hexavalent	71 <b>96A</b>	0.010	U	mg/L	0.010	1	NA	10/15/15 10:59	
Cyanide, Total	9012B	0.010	U	mg/L	0.010	1	10/16/15	10/19/15 10:26	
Phenolics, Total Recoverable	420.4 Modified	0.0050	U	mg/L	0.0050	1	NA	10/15/15 09:25	
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	1.0	U	mg/L	1.0	1	NA	10/15/15 18:48	
Sulfide	SM 4500-S2-F-2000(20	1.0	U	mg/L	1.0	1	NA	10/16/15 11:15	

SuperSet Reference: 15-0000350446 rev 00

Analytical Report

Client:

Antea USA Inc

Project:

Queensbury, NY

Sample Matrix:

Water

vv atol

Sample Name: Lab Code: Method Blank R1508835-MB2 Service Request: R1508835

Date Collected: NA
Date Received: NA

Basis: NA

## **General Chemistry Parameters**

Analyta Nama	Method	Result O	Units	MRL	Dilution Factor I	Date Extracted	Date Analyzed	Note
Analyte Name	Methon	Kesuit Q	Ollits	MIKL	Tactor	extracted	Allalyzeu	11010
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	NA	10/18/15 23:18	

Analytical Report

Client: Project: Antea USA Inc Queensbury, NY

Sample Matrix:

Water

Sample Name: Lab Code:

Method Blank R1508835-MB

Service Request: R1508835

Date Collected: NA Date Received: NA

Basis: NA

## **Inorganic Parameters**

Analysia Nomo	Method	Result Q	Units	MRL	- nenon	ate lyzed Note
Analyte Name	Method					
Aluminum, Total	6010C	0.10 U	mg/L	0.10	-	15 15:11
Antimony, Total	6010C	0.060 U	mg/L	0.060	-	15 15:11
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1 10/15/15 10/18/	15 15:11
Barium, Total	6010C	0.020 U	mg/L	0.020	1 10/15/15 10/18/	15 15:11
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1 10/15/15 10/18/	15 15:11
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1 10/15/15 10/18/	15 15:11
Calcium, Total	6010C	1.0 U	mg/L	1.0	1 10/15/15 10/18/	15 15:11
Chromium, Total	6010C	0.010 U	mg/L	0.010	1 10/15/15 10/18/	15 15:11
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1 10/15/15 10/18/	15 15:11
Copper, Total	6010C	0.020 U	mg/L	0.020	1 10/15/15 10/18/	15 15:11
Iron, Total	6010C	0.10 U	mg/L	0.10	1 10/15/15 10/18/	15 15:11
Lead, Total	6010C	0.050 U	mg/L	0.050	1 10/15/15 10/18/	15 15:11
Magnesium, Total	6010C	1.0 U	mg/L	1.0	1 10/15/15 10/18/	15 15:11
Manganese, Total	6010C	0.010 U	mg/L	0.010	1 10/15/15 10/18/	15 15:11
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1 10/15/15 10/16/	15 11:25
Nickel, Total	6010C	0.040 U	mg/L	0.040	1 10/15/15 10/18/	15 15:11
Potassium, Total	6010C	2.0 U	mg/L	2.0	1 10/15/15 10/18/	15 15:11
Selenium, Total	6010C	0.010 U	mg/L	0.010	1 10/15/15 10/18/	15 15:11
Silver, Total	6010C	0.010 U	mg/L	0.010	1 10/15/15 10/18/	15 15:11
Sodium, Total	6010C	1.0 U	mg/L	1.0	1 10/15/15 10/18/	15 15:11
Thallium, Total	6010C	0.010 U	mg/L	0.010	1 10/15/15 10/18/	15 15:11
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1 10/15/15 10/18/	15 15:11
Zinc, Total	6010C	0.020 U	mg/L	0.020	1 10/15/15 10/18/	15 15:11

Analytical Report

Client:

Antea USA Inc Queensbury, NY

Project: Sample Matrix:

Water

Sample Name: Lab Code:

Method Blank RQ1512610-01 Service Request: R1508835

Date Collected: NA Date Received: NA

Units:  $\mu g/L$ Basis: NA

## Volatile Organic Compounds by GC/MS

Analytical Method: 8260C Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted		Extraction Analysis Lot Lot	Note
1,1,1-Trichloroethane (TCA)	5.0	U	5.0	1	NA	10/15/15 10:51	467145	
1,1,2,2-Tetrachloroethane	5.0		5.0	1	NA	10/15/15 10:51	467145	
1,1,2-Trichloroethane	5.0		5.0	1	NA	10/15/15 10:51	467145	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1	NA	10/15/15 10:51		
1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	1	NA	10/15/15 10:51		
1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	1	NA	10/15/15 10:51	467145	
1,2,3-Trichlorobenzene	5.0	U	5.0	1	NA	10/15/15 10:5		
1,2,4-Trichlorobenzene	5.0	U	5.0	1	NA	10/15/15 10:53		
1,2-Dibromo-3-chloropropane (DBCP)	5.0	U	5.0	1	NA	10/15/15 10:5	467145	
1,2-Dibromoethane	5.0	U	5.0	1	NA	10/15/15 10:5		
1,2-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 10:5		
1,2-Dichloroethane	5.0	U	5.0	1	NA	10/15/15 10:5	1 467145	
1,2-Dichloropropane	5.0	U	5.0	1	NA	10/15/15 10:5		
1,3-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 10:5		
1,4-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 10:5	1 467145	
1,4-Dioxane	100	U	100	1	NA	10/15/15 10:5		
2-Butanone (MEK)	10	U	10	1	NA	10/15/15 10:5		
2-Hexanone	10	U	10	1	NA	10/15/15 10:5	1 467145	
4-Methyl-2-pentanone	10	U	10	1	NA	10/15/15 10:5		
Acetone	10	U	10	1	NA	10/15/15 10:5		
Benzene	5.0	U	5.0	1	NA	10/15/15 10:5		
Bromochloromethane	5.0	U	5.0	1	NA	10/15/15 10:5		
Bromodichloromethane	5.0	U	5.0	1	NA	10/15/15 10:5		
Bromoform	5.0	U	5.0	1	NA NA	10/15/15 10:5	1 467145	
Bromomethane	5.0	U	5.0	1	NA	10/15/15 10:5		
Carbon Disulfide	10	U	10	1	NA	10/15/15 10:5		
Carbon Tetrachloride	5.0	U	5.0	1	NA	10/15/15 10:5	1 467145	
Chlorobenzene	5.0	Ü	5.0	1	NA	10/15/15 10:5		
Chloroethane	5.0	U	5.0	1	NA	10/15/15 10:5		
Chloroform	5.0	U	5.0	1	NA	10/15/15 10:5	1 467145	<u> </u>
Chloromethane	5.0	U	5.0	1	NA	10/15/15 10:5		
Cyclohexane		U	10	1	NA	10/15/15 10:5		
Dibromochloromethane	5.0	U	5.0	1	NA	10/15/15 10:5	1 467145	<u></u>
Dichlorodifluoromethane (CFC 12)	5.0	U	5.0	1	NA	10/15/15 10:5		
Dichloromethane		Ū	5.0	. 1	NA	10/15/15 10:5		
Ethylbenzene		U	5.0	1	NA	10/15/15 10:5	1 467145	5

Analytical Report

Client:

Antea USA Inc

Project: Sample Matrix: Queensbury, NY Water

Sample Name: Lab Code:

Method Blank RQ1512610-01 Service Request: R1508835

Date Collected: NA Date Received: NA

> Units: μg/L Basis: NA

## Volatile Organic Compounds by GC/MS

Analytical Method: 8260C Prep Method:

EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	5.0	U	5.0	1	NA	10/15/15 10:5	1	467145	
Methyl Acetate	10	U	10	1	NA	10/15/15 10:5	1	467145	
Methyl tert-Butyl Ether	5.0	U	5.0	1	NA	10/15/15 10:5	1	467145	
Methylcyclohexane	10	U	10	1	NA	10/15/15 10:5	1	467145	
Styrene	5.0	U	5.0	1	NA	10/15/15 10:5	1	467145	
Tetrachloroethene (PCE)	5.0	U	5.0	1	NA	10/15/15 10:5	1	467145	
Toluene	5.0	U	5.0	1	NA	10/15/15 10:5	1	467145	
Trichloroethene (TCE)	5.0	U	5.0	1	NA	10/15/15 10:5	1	467145	
Trichlorofluoromethane (CFC 11)	5.0	U	5.0	1	NA	10/15/15 10:5	1	467145	
Vinyl Chloride	5.0	U	5.0	1	NA	10/15/15 10:5	1	467145	
cis-1,2-Dichloroethene	5.0	U	5.0	1	NA	10/15/15 10:5	1	467145	
cis-1,3-Dichloropropene	5.0	U	5.0	1	NA	10/15/15 10:5	1	467145	
m,p-Xylenes	5.0	U	5.0	1	NA	10/15/15 10:5	1	467145	
o-Xylene	5.0	U	5.0	1	NA	10/15/15 10:5	1	467145	
trans-1,2-Dichloroethene	5.0	U	5.0	1	NA	10/15/15 10:5	1	467145	
trans-1,3-Dichloropropene	5.0	U	5.0	1	NA	10/15/15 10:5	1	467145	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	
4-Bromofluorobenzene	90	85-122	10/15/15 10:51		
Dibromofluoromethane	94	89-119	10/15/15 10:51		
Toluene-d8	97	87-121	10/15/15 10:51		

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Analytical Report

Client:

Antea USA Inc

Project: Sample Matrix: Queensbury, NY Water

Sample Name: Lab Code:

Method Blank RQ1512449-01 Service Request: R1508835

Date Collected: NA Date Received: NA

> Units: µg/L Basis: NA

## Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D

Prep Method: **EPA 3510C** 

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted		Extraction Lot	Analysis Lot	Note
1,2,4,5-Tetrachlorobenzene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2,3,4,6-Tetrachlorophenol	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2,4,5-Trichlorophenol	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2,4,6-Trichlorophenol	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2,4-Dichlorophenol	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2,4-Dimethylphenol	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2,4-Dinitrophenol	50	U	50	1	10/15/15	10/19/15 18:17	247341	467903	
2,4-Dinitrotoluene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2,6-Dinitrotoluene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2-Chloronaphthalene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2-Chlorophenol	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2-Methylnaphthalene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2-Methylphenol	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2-Nitroaniline	50	U	50	1	10/15/15	10/19/15 18:17	247341	467903	
2-Nitrophenol	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
3,3'-Dichlorobenzidine	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
3- and 4-Methylphenol Coelution	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
3-Nitroaniline	50	U	50	1	10/15/15	10/19/15 18:17	247341	467903	
4,6-Dinitro-2-methylphenol	50	U	50	1	10/15/15	10/19/15 18:17	247341	467903	
4-Bromophenyl Phenyl Ether	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
4-Chloro-3-methylphenol	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
4-Chloroaniline	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
4-Chlorophenyl Phenyl Ether	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
4-Nitroaniline	50	U	50	1	10/15/15	10/19/15 18:17	247341	467903	
4-Nitrophenol	50	U	50	1	10/15/15	10/19/15 18:17	247341	467903	
Acenaphthene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Acenaphthylene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Acetophenone	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Anthracene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Atrazine	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Benz(a)anthracene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Benzaldehyde	50	U	50	1	10/15/15	10/19/15 18:17	247341	467903	
Benzo(a)pyrene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Benzo(b)fluoranthene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Benzo(g,h,i)perylene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Benzo(k)fluoranthene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Biphenyl	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	

Analytical Report

Client:

Antea USA Inc

Project: Sample Matrix: Queensbury, NY Water

Sample Name: Lab Code:

Method Blank RQ1512449-01 Service Request: R1508835

Date Collected: NA
Date Received: NA

Units: μg/L Basis: NA

## Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D Prep Method: EPA 3510C

Bis(2-chloroethoxy)methane         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Bis(2-chloroethyl) Ether         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Bis(2-cthylhexyl) Phthalate         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Butyl Benzyl Phthalate         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Carbazole         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Chrysene         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Di-n-butyl Phthalate         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Di-n-cyl Phthalate         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903 </th <th>Prep Method: EPA 3510C</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Prep Method: EPA 3510C									
2,2°Oxybis(1-chloropropane)   10 U   10			_						-	<b>N</b> T .
Bis(2-chloroethoxy)methane   10 U	Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Lot	Note
Bis(2-chloroethyl) Ether 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Bis(2-ethylhexyl) Phthalate 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Butyl Benzyl Phthalate 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Carbazole 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Carbazole 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Chrysene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Chrysene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Di-n-butyl Phthalate 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Di-n-octyl Phthalate 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Dibenzofuran 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Dibenzofuran 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Dibenzofuran 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Dibenzofuran 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Dibenzofuran 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Dibenzofuran 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Diethyl Phthalate 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Fluoranthene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Fluoranthene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Fluoranthene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Hexachlorobenzene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Hexachlorocyclopentadiene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Hexachlorocyclopentadiene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Hexachlorocyclopentadiene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  Bisophorone 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  N-Nitrosodi-n-propylamine 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  N-Nitrosodi-n-propylamine 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  N-Nitrosodi-n-propylamine 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  N-Nitrosodi-n-propylamine 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  N-Nitrosodi-n-propylamine 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  N-Nitrosodi-n-propylamine 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903  N-Nitrosodi-n-propyla	2,2'-Oxybis(1-chloropropane)	10	U	10	1	10/15/15	10/19/15 18:17		467903	
Bis(2-ethylhexyl) Phthalate	Bis(2-chloroethoxy)methane	10	U	10	1	10/15/15	10/19/15 18:17	7 247341	467903	
Butyl Benzyl Phthalate	Bis(2-chloroethyl) Ether	10	U	10	1	10/15/15	10/19/15 18:1	7 247341	467903	
Butyl Benzyl Phthalate	Bis(2-ethylhexyl) Phthalate	10	U	10	1	10/15/15	10/19/15 18:1	7 247341	467903	
Carbazole         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Chrysene         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Di-n-butyl Phthalate         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Di-n-octyl Phthalate         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Dibenzofuran         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Dibenzofuran         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Diethyl Phthalate         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Diemethyl Phthalate         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Ho	Butyl Benzyl Phthalate	10	U	10	1	10/15/15	10/19/15 18:17	7 247341	467903	
Chrysene	Caprolactam	10	U	10	1	10/15/15	10/19/15 18:1	7 247341	467903	
Di-n-butyl Phthalate	Carbazole	10	U	10	1	10/15/15	10/19/15 18:1	7 247341	467903	
Di-n-butyl Phthalate         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Di-n-octyl Phthalate         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Dibenzofuran         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Diethyl Phthalate         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Dimethyl Phthalate         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Pluorenthene         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Fluorene         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Hexachlorobutadiene         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903	Chrysene	10	U	10	1	10/15/15	10/19/15 18:13	7 247341	467903	
Dibenz(a,h)anthracene	Di-n-butyl Phthalate	10	U	10	1	10/15/15	10/19/15 18:11	7 247341	467903	
Dibenzofuran   10 U   10	Di-n-octyl Phthalate	10	U	10	1	10/15/15	10/19/15 18:1	7 247341	467903	
Diethyl Phthalate  10 U  10 1 10/15/15 10/19/15 18:17 247341 467903  Dimethyl Phthalate  10 U  10 1 10/15/15 10/19/15 18:17 247341 467903  Fluoranthene  10 U  10 1 10/15/15 10/19/15 18:17 247341 467903  Fluoranthene  10 U  10 1 10/15/15 10/19/15 18:17 247341 467903  Fluorene  10 U  10 1 10/15/15 10/19/15 18:17 247341 467903  Hexachlorobenzene  10 U  10 1 10/15/15 10/19/15 18:17 247341 467903  Hexachlorocyclopentadiene  10 U  10 1 10/15/15 10/19/15 18:17 247341 467903  Hexachlorocyclopentadiene  10 U  10 1 10/15/15 10/19/15 18:17 247341 467903  Hexachlorocyclopentadiene  10 U  10 1 10/15/15 10/19/15 18:17 247341 467903  Indeno(1,2,3-cd)pyrene  10 U  10 1 10/15/15 10/19/15 18:17 247341 467903  Isophorone  10 U  10 1 10/15/15 10/19/15 18:17 247341 467903  N-Nitrosodi-n-propylamine  10 U  10 1 10/15/15 10/19/15 18:17 247341 467903  N-Nitrosodiphenylamine  10 U  10 1 10/15/15 10/19/15 18:17 247341 467903  N-Nitrosodiphenylamine  10 U  10 1 10/15/15 10/19/15 18:17 247341 467903  N-Nitrosodiphenylamine  10 U  10 1 10/15/15 10/19/15 18:17 247341 467903  Naphthalene  10 U  10 1 10/15/15 10/19/15 18:17 247341 467903  Naphthalene  10 U  10 1 10/15/15 10/19/15 18:17 247341 467903  Nentachlorophenol (PCP)  50 U  50 1 10/15/15 10/19/15 18:17 247341 467903  Phenanthrene  10 U  10 1 10/15/15 10/19/15 18:17 247341 467903  Phenanthrene  10 U  10 1 10/15/15 10/19/15 18:17 247341 467903  Phenanthrene  10 U  10 1 10/15/15 10/19/15 18:17 247341 467903  Phenol	Dibenz(a,h)anthracene	10	U	10	1	10/15/15	10/19/15 18:1	7 247341	467903	
Dimethyl Phthalate	Dibenzofuran	10	U	10	1	10/15/15	10/19/15 18:1	7 247341	467903	
Dimethyl Phthalate         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Fluoranthene         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Fluorene         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Hexachlorobenzene         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Hexachlorobutadiene         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Hexachlorocyclopentadiene         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Hexachlorochtane         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903           Indeno(1,2,3-cd)pyrene         10         U         10         1         10/15/15         10/19/15         18:17         247341         467903	Diethyl Phthalate	10	U	10	1	10/15/15	10/19/15 18:1	7 247341	467903	
Fluorene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 Hexachlorobenzene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 Hexachlorobutadiene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 Hexachlorocyclopentadiene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 Hexachlorocyclopentadiene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 Hexachlorocyclopentadiene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 Indeno(1,2,3-cd)pyrene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 Isophorone 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 N-Nitrosodi-n-propylamine 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 N-Nitrosodiphenylamine 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 Naphthalene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 Nitrobenzene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 Pentachlorophenol (PCP) 50 U 50 1 10/15/15 10/19/15 18:17 247341 467903 Phenanthrene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 Phenol 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903	Dimethyl Phthalate	10	U	10	1	10/15/15	10/19/15 18:1	7 247341	467903	
Hexachlorobenzene       10 U       10 U       10 U       10 U       10/15/15 10/19/15 18:17 247341 467903       467903 467903         Hexachlorocyclopentadiene       10 U       10 U       10 U       10 U       10/15/15 10/19/15 18:17 247341 467903         Hexachlorocyclopentadiene       10 U       10 U <td>Fluoranthene</td> <td>10</td> <td>U</td> <td>10</td> <td>1</td> <td>10/15/15</td> <td>10/19/15 18:1</td> <td>7 247341</td> <td>467903</td> <td></td>	Fluoranthene	10	U	10	1	10/15/15	10/19/15 18:1	7 247341	467903	
Hexachlorobutadiene         10 U         10         1 10/15/15 10/19/15 18:17 247341 467903           Hexachlorocyclopentadiene         10 U         10         1 10/15/15 10/19/15 18:17 247341 467903           Hexachlorocethane         10 U         10         1 10/15/15 10/19/15 18:17 247341 467903           Indeno(1,2,3-cd)pyrene         10 U         10         1 10/15/15 10/19/15 18:17 247341 467903           Isophorone         10 U         10         1 10/15/15 10/19/15 18:17 247341 467903           N-Nitrosodi-n-propylamine         10 U         10         1 10/15/15 10/19/15 18:17 247341 467903           N-Nitrosodiphenylamine         10 U         10         1 10/15/15 10/19/15 18:17 247341 467903           Naphthalene         10 U         10         1 10/15/15 10/19/15 18:17 247341 467903           Nitrobenzene         10 U         10         1 10/15/15 10/19/15 18:17 247341 467903           Pentachlorophenol (PCP)         50 U         50         1 10/15/15 10/19/15 18:17 247341 467903           Phenanthrene         10 U         10         1 10/15/15 10/19/15 18:17 247341 467903           Phenol         10 U         10         1 10/15/15 10/19/15 18:17 247341 467903	Fluorene	10	U	10	1	10/15/15	10/19/15 18:1	7 247341	467903	
Hexachlorocyclopentadiene         10 U	Hexachlorobenzene	10	U	10	1	10/15/15	10/19/15 18:1	7 247341	467903	
Hexachloroethane         10 U         10         1 10/15/15 10/19/15 18:17 247341 467903           Indeno(1,2,3-cd)pyrene         10 U         10         1 10/15/15 10/19/15 18:17 247341 467903           Isophorone         10 U         10         1 10/15/15 10/19/15 18:17 247341 467903           N-Nitrosodi-n-propylamine         10 U         10         1 10/15/15 10/19/15 18:17 247341 467903           N-Nitrosodiphenylamine         10 U         10         1 10/15/15 10/19/15 18:17 247341 467903           Naphthalene         10 U         10         1 10/15/15 10/19/15 18:17 247341 467903           Nitrobenzene         10 U         10         1 10/15/15 10/19/15 18:17 247341 467903           Pentachlorophenol (PCP)         50 U         50         1 10/15/15 10/19/15 18:17 247341 467903           Phenanthrene         10 U         10         1 10/15/15 10/19/15 18:17 247341 467903           Phenol         10 U         10         1 10/15/15 10/19/15 18:17 247341 467903	Hexachlorobutadiene	10	U	10	. 1	10/15/15	10/19/15 18:1	7 247341	467903	
Hexachloroethane	Hexachlorocyclopentadiene	10	U	10	1	10/15/15	10/19/15 18:1	7 247341	467903	
Isophorone       10 U		10	U	10	1	10/15/15	10/19/15 18:1	7 247341	467903	
N-Nitrosodi-n-propylamine 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 N-Nitrosodiphenylamine 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 Naphthalene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 Nitrobenzene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 Pentachlorophenol (PCP) 50 U 50 1 10/15/15 10/19/15 18:17 247341 467903 Phenanthrene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 Phenol 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903	Indeno(1,2,3-cd)pyrene	10	U	10	1	10/15/15	10/19/15 18:1	7 247341	467903	
N-Nitrosodi-n-propylamine 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 N-Nitrosodiphenylamine 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 Naphthalene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 Nitrobenzene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 Pentachlorophenol (PCP) 50 U 50 1 10/15/15 10/19/15 18:17 247341 467903 Phenanthrene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 Phenol 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903	Isophorone	10	U	10	1	10/15/15	10/19/15 18:1	7 247341	467903	
Naphthalene       10 U       10 U       10 U       10/15/15 10/19/15 18:17 247341 467903         Nitrobenzene       10 U       10 U       10 U       10/15/15 10/19/15 18:17 247341 467903         Pentachlorophenol (PCP)       50 U       50 U       10/15/15 10/19/15 18:17 247341 467903         Phenanthrene       10 U       10 U       10 U       10/15/15 10/19/15 18:17 247341 467903         Phenol       10 U       10 U       10/15/15 10/19/15 18:17 247341 467903	N-Nitrosodi-n-propylamine	10	U	10	1	10/15/15	10/19/15 18:1	7 247341	467903	
Nitrobenzene         10 U	N-Nitrosodiphenylamine	10	U	10	1	10/15/15	10/19/15 18:1	7 247341	467903	
Pentachlorophenol (PCP)       50 U       50 U       1       10/15/15 10/19/15 18:17 247341 467903         Phenanthrene       10 U       10 U       10 U       10/15/15 10/19/15 18:17 247341 467903         Phenol       10 U       10 U       10/15/15 10/19/15 18:17 247341 467903	Naphthalene	10	U	10	1	10/15/15	10/19/15 18:1	7 247341		
Phenanthrene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903 Phenol 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903	Nitrobenzene	10	U	10	1	10/15/15	10/19/15 18:1	7 247341	467903	
Phenol 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903	Pentachlorophenol (PCP)	50	U	50	1	10/15/15	10/19/15 18:1	7 247341	467903	
	Phenanthrene	10	U	10	1					_
Pyrene 10 U 10 1 10/15/15 10/19/15 18:17 247341 467903	Phenol	10	U	10	1					
	Pyrene	10	U	10	1	10/15/15	10/19/15 18:1	7 247341	467903	

Analytical Report

Client:

Antea USA Inc

Project:

Lab Code:

Queensbury, NY

Sample Matrix:

Water

Sample Name: Method Blank

RQ1512449-01

Service Request: R1508835

Date Collected: NA

Date Received: NA

Units: Percent Basis: NA

## Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D

Prep Method:

EPA 3510C

Surrogate Name	%Rec	Control Limits	Date Analyzed Q
2,4,6-Tribromophenol	103	28-157	10/19/15 18:17
2-Fluorobiphenyl	79	39-119	10/19/15 18:17
2-Fluorophenol	54	10-105	10/19/15 18:17
Nitrobenzene-d5	112	37-117	10/19/15 18:17
Phenol-d6	42	10-107	10/19/15 18:17
Terphenyl-d14	128	40-133	10/19/15 18:17

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QA/QC Report

Client: Project:

Antea USA Inc

Sample Matrix:

Water

Queensbury, NY

Service Request: R1508835 Date Analyzed: 10/15/15 -

10/19/15

Lab Control Sample Summary General Chemistry Parameters

> Units: mg/L Basis: NA

# Lab Control Sample

R1508835-LCS1

Analyte Name	Method	Result	Spike Amouut	% Rec	% Rec Limits	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.524	0.500	105	90 - 110	
Chemical Oxygen Demand, Total	410.4	50.4	50.0	101	90 - 110	
Chromium, Hexavalent	7196A	0.0966	0.100	97	80 - 120	
Cyanide, Total	9012B	0.104	0.100	104	85 - 115	
Phenolics, Total Recoverable	420.4 Modified	0.0394	0.0400	98	90 - 110	
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	203	214	95	80 - 120	
Sulfide	SM 4500-S2-F-2000(20	3,30	3.2	104	67 - 143	

Results flagged with an asterisk (\*) indicate values outside control criteria.

QA/QC Report

Client: Project: Antea USA Inc Queensbury, NY

Sample Matrix:

Water

Service Request: R1508835 **Date Analyzed:** 10/18/15 -

10/19/15

**Lab Control Sample Summary General Chemistry Parameters** 

> Units: mg/L Basis: NA

Lab Control Sample R1508835-LCS2

Analyte Name	Method	Result	Spike Amount		% Rec Limits	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.501	0.500	100	90 - 110	
Cyanide, Total	9012B	0.403	0.400	101	85 - 115	

Results flagged with an asterisk (\*) indicate values outside control criteria.

QA/QC Report

Client: Project:

Antea USA Inc Queensbury, NY

Sample Matrix:

Water

Service Request: R1508835 Date Analyzed: 10/16/15 -

10/18/15

## Lab Control Sample Summary Inorganic Parameters

Units: mg/L Basis: NA

## Lab Control Sample R1508835-LCS

	K1500035 EC5							
			Spike		% Rec			
Analyte Name	Method	Result	Amount	% Rec	Limits			
Aluminum, Total	6010C	1.87	2,00	93	80 - 120			
Antimony, Total	6010C	0.419	0.500	84	80 - 120			
Arsenic, Total	6010C	0.0435	0.040	1 <b>09</b>	80 - 120			
Barium, Total	6010C	2,11	2.00	105	80 - 120			
Beryllium, Total	6010C	0.0495	0.0500	99	80 - 120			
Cadmium, Total	6010C	0.0517	0.0500	103	80 - 120			
Calcium, Total	6010C	2.04	2.0	102	80 - 120			
Chromium, Total	6010C	0.211	0.200	106	80 - 120			
Cobalt, Total	6010C	0.510	0.500	102	80 - 120			
Copper, Total	6010C	0.270	0.250	108	80 - 120			
Iron, Total	6010C	1.07	1.00	107	80 - 120			
Lead, Total	6010C	0.521	0.500	104	80 - 120			
Magnesium, Total	6010C	2.07	2.0	104	80 - 120	_		
Manganese, Total	6010C	0.515	0.500	103	80 - 120			
Mercury, Total	7470 <b>A</b>	0.00100	0.00100	100	80 - 120			
Nickel, Total	6010C	0.520	0.500	104	80 - 120			
Potassium, Total	6010C	17.6	20.0	88	80 - 120			
Selenium, Total	6010C	0.979	1.01	97	80 - 120			
Silver, Total	6010C	0.0553	0.050	111	80 - 120			
Sodium, Total	6010C	19.2	20.0	96	80 - 120			
Thallium, Total	6010C	2.05	2.00	103	80 - 120			
Vanadium, Total	6010C	0.496	0.500	- 99	80 - 120			
Zinc, Total	6010C	0.526	0.500	105	80 - 120			

Results flagged with an asterisk (\*) indicate values outside control criteria.

QA/QC Report

Client: Project: Antea USA Inc Queensbury, NY

Sample Matrix:

Water

Service Request: R1508835 Date Analyzed: 10/15/15

Lab Control Sample Summary Volatile Organic Compounds by GC/MS

Analytical Method:

8260C

Units: µg/L Basis: NA

Analysis Lot: 467145

# **Lab Control Sample** RQ1512610-02

		Q1512010-0		0/ D	
Analyte Name	Result	Spike Amount	% Rec	% Rec Limits	
				<del>.</del>	
1,1,1-Trichloroethane (TCA)	17.8	20.0	89	74 - 120	
1,1,2,2-Tetrachloroethane	22.7	20.0	113	78 - 122	
1,1,2-Trichloroethane	20.9	20.0	104	82 - 118	
1,1,2-Trichloro-1,2,2-trifluoroethane	17.6	20.0	88	75 - 124	
1,1-Dichloroethane (1,1-DCA)	20.8	20.0	104	78 - 117	
1,1-Dichloroethene (1,1-DCE)	20.3	20.0	102	74 - 135	
1,2,3-Trichlorobenzene	21.4	20.0	107	56 - 164	
1,2,4-Trichlorobenzene	20.8	20.0	104	68 - 147	
1,2-Dibromo-3-chloropropane (DBCP)	18.9	20.0	94	55 - 149	
1,2-Dibromoethane	19.3	20.0	96	81 - 125	
1,2-Dichlorobenzene	20.2	20.0	101	80 - 119	
1,2-Dichloroethane	19.7	20.0	99	71 - 127	
1,2-Dichloropropane	21.9	20.0	109	80 - 119	
1,3-Dichlorobenzene	20.5	20.0	103	79 - 121	
1,4-Dichlorobenzene	18.9	20.0	95	79 - 119	
1,4-Dioxane	371	400	93	69 - 151	
2-Butanone (MEK)	26.2	20.0	131	61 - 137	
2-Hexanone	24.9	20.0	125 *		
4-Methyl-2-pentanone	24.8	20.0	124	66 - 124	· · · · · · · · · · · · · · · · · · ·
Acetone	25.4	20.0	127	40 - 161	
Benzene	20.4	20.0	102	76 - 118	•
Bromochloromethane	20.9	20.0	104	81 - 126	· · · · · · · · · · · · · · · · · · ·
Bromodichloromethane	18.4	20.0	92	78 - 126	
Bromoform	17.4	20.0	87	71 - 136	
	28.0	20.0	140	42 - 166	
Bromomethane Carbon Disulfide	20.9	20.0	104	65 - 127	
Carbon Distinge Carbon Tetrachloride	20.9 17.0	20.0	85	68 - 125	
<u> </u>					
Chlorobenzene	20.6	20.0	103	80 - 121	
Chloroethane	27.8	20.0	139 *		
Chloroform	19.3	20.0	96	76 - 120	
Chloromethane	34.1	20.0	171 *	0) 1-13	
Cyclohexane	19.9	20.0	100	63 - 121	
Dibromochloromethane	19.3	20.0	96	77 - 128	

Results flagged with an asterisk (\*) indicate values outside control criteria.

QA/QC Report

Client:

Antea USA Inc Queensbury, NY

Project: Sample Matrix:

Water

Service Request: R1508835 Date Analyzed: 10/15/15

Lab Control Sample Summary Volatile Organic Compounds by GC/MS

Analytical Method: 82

8260C

Units: μg/L Basis: NA

Analysis Lot: 467145

Lab Control Sample RO1512610-02

	F	(Q1512010-0	)2		
Analyte Name	Result	Spike Amount	% Rec	% Rec Limits	
Dichlorodifluoromethane (CFC 12)	26.2	20,0	131	65 - 152	
Dichloromethane	19.6	20.0	98	73 - 122	
Ethylbenzene	19.9	20.0	100	76 - 120	1 TO 1 TO 1
Isopropylbenzene (Cumene)	21.1	20.0	106	78 - 126	
Methyl Acetate	24.6	20.0	123	62 - 131	
Methyl tert-Butyl Ether	21.0	20.0	105	78 - 125	
Methylcyclohexane	21.5	20.0	107	5I - 129	
Styrene	21.2	20.0	106	80 - 124	
Tetrachloroethene (PCE)	18.6	20.0	93	78 - 124	
Toluene	20.4	20.0	102	77 - 120	
Trichloroethene (TCE)	18.1	20.0	91	78 - 123	
Trichlorofluoromethane (CFC 11)	21.8	20.0	109	68 - 126	
Vinyl Chloride	30.1	20.0	150 *	69 - 133	
cis-1,2-Dichloroethene	20,3	20.0	101	80 - 121	
cis-1,3-Dichloropropene	20.2	20.0	101	74 - 126	
m,p-Xylenes	42.1	40.0	105	78 - 123	
o-Xylene	20.3	20.0	101	80 - 120	
trans-1,2-Dichloroethene	20.8	20.0	104	80 - I20	
trans-1,3-Dichloropropene	19.6	20.0	98	67 - 135	

Results flagged with an asterisk (\*) indicate values outside control criteria.

QA/QC Report

Client: Project: Antea USA Inc Queensbury, NY

Sample Matrix:

Water

Service Request: R1508835 Date Analyzed: 10/19/15

## Lab Control Sample Summary Semivolatile Organic Compounds by GC/MS

Analytical Method: Prep Method:

8270D

EPA 3510C

Units: µg/L Basis: NA

Extraction Lot: 247341

						2.17.41.44	2001	21.511	
		Control San Q1512449-0	-		e Lab Contro Q1512449-0		a. 5		
Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	62.9	100	63	82.6	100	83	25 - 123	27	30
2,3,4,6-Tetrachlorophenol	102	100	102	104	100	104	81 - 137	2	30
2,4,5-Trichlorophenol	93.4	100	93	110	100	110	62 - 117	17	30
2,4,6-Trichlorophenol	83.4	100	83	108	100	108	62 - 115	26	30
2,4-Dichlorophenol	111	100	111 *	78.1	100	78	62 - 109	35 *	30
2,4-Dimethylphenol	107	100	107 *	74.1	100	74	28 - 100	36 *	30
2,4-Dinitrophenol	65.0	100	65	72.2	100	72	40 - 156	10	30
2,4-Dinitrotoluene	85.8	100	86	90.7	100	91	69 - 122	6	30
2,6-Dinitrotoluene	84.7	100	85	86.3	100	86	48 - 125	1	30
2-Chloronaphthalene	71.3	100	71	71.0	100	71	47 - 98	<1	30
2-Chlorophenol	76.2	100	76	71.3	100	71	42 - 112	7	30
2-Methylnaphthalene	70.9	100	<b>7</b> 1	52.5	100	52	34 - 102	31 *	30
2-Methylphenol	74.3	100	74	70.6	100	71	59 - 104	4	30
2-Nitroaniline	82.0	100	82	84.9	100	85	60 - 119	4	30
2-Nitrophenol	120	100	120 *	80.2	100	80	60 - 113	40 *	30
3,3'-Dichlorobenzidine	67.0	100	67	70.4	100	70	44 - 114	4	30
3- and 4-Methylphenol Coelution	142	200	71	136	200	68	50 - 111	4	30
3-Nitroaniline	66.1	100	66	67.9	100	68	50 - 112	3	30
4,6-Dinitro-2-methylphenol	85.8	100	86	90.0	100	90	65 - 141	5	30
4-Bromophenyl Phenyl Ether	92.1	100	92	89.2	100	89-	63 - 124	3	30
4-Chloro-3-methylphenol	81.9	100	82	75.1	100	75	42 - 124	9	30
4-Chloroaniline	67.8	100	68	68.1	100	68	40 - 111	<1	30
4-Chlorophenyl Phenyl Ether	80.3	100	80	81.4	100	81	59 - 112	1	30
4-Nitroaniline	78.7	100	79	82.5	100	83	62 - 127	5	30
4-Nitrophenol	47.9	100	48	40.6	100	41	10 - 126	16	30
Acenaphthene	79.9	100	80	79.7	100	80	54 - 125	<1	30
Acenaphthylene	78.4	100	78	80.5	100	81	69 - 111	4	30
Acetophenone	79.3	100	79	78.6	100	79	42 - 126	<1	30
Anthracene	87.2	100	87	87.3	100	87	55 - 116	<1	30
Atrazine	108	100	108	109	100	109	10 - 160	<1	30
Benz(a)anthracene	83.5	100	83	87.0	100	87	66 - 110	5	30
Benzaldehyde	114	100	114	165	100	165	46 - 200	37	
Benzo(a)pyrene	83.9	100	84	90.3	100	90	44 - 114	7	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

\\alprews001\starlims\$\LIMSReps\LabControlSample.rpt

QA/QC Report

Client: Project: Antea USA Inc Queensbury, NY

Sample Matrix:

Water

Service Request: R1508835 Date Analyzed: 10/19/15

## Lab Control Sample Summary Semivolatile Organic Compounds by GC/MS

Analytical Method: Prep Method:

8270D

EPA 3510C

Units: µg/L Basis: NA

Extraction Lot: 247341

		Control Sa			Lab Contr				
	F	RQ1512449-0	)2	R	Q1512449-(	)3	n		
Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzo(b)fluoranthene	81.4	100	81	86.7	100	87	64 - 122	7	30
Benzo(g,h,i)perylene	80.8	100	81	85.0	100	85	60 - 127	5	30
Benzo(k)fluoranthene	80.0	100	80	86.1	100	86	49 - 133	7	30
Biphenyl	70.6	100	71	72.0	100	72	30 - 126	1	30
2,2'-Oxybis(1-chloropropane)	118	100	118 *	116	100	116 *	44 - 112	2	30
Bis(2-chloroethoxy)methane	123	100	123	86.6	100	87	53 - 142	34 *	30
Bis(2-chloroethyl) Ether	74.6	100	75	79.6	100	80	56 - 106	6	30
Bis(2-ethylhexyl) Phthalate	87.7	100	88	85.8	100	86	62 - 124	2	30
Butyl Benzyl Phthalate	79.6	100	80	114	100	114	41 - 148	35 *	30
Caprolactam	27.8	100	28	24.9	100	25	10 - 41	11	- 30
Carbazole	118	100	118 *	88.2	100	88	66 - 117	29	30
Chrysene	88.6	100	89	89.0	100	89	57 - 118	<1	30
Di-n-butyl Phthalate	116	100	116	87.7	100	88	57 - 139	27	30
Di-n-octyl Phthalate	85.6	100	86	92.4	100	92	72 - 146	7	30
Dibenz(a,h)anthracene	81.7	100	82	87.8	100	- 88	58 - 132	7	30
Dibenzofuran	77.8	100	78	78.7	100	79	58 - 105	1	30
Diethyl Phthalate	82.4	100	82	85.5	100	85	65 - 122	4	30
Dimethyl Phthalate	79.8	100	80	81.5	100	81	69 - 115	1	30
Fluoranthene	153	100	153 *	70.0	100	91	62 - 123	51 '	
Fluorene	81.6	100	82	83.9	100	84	60 - 112	2	30
Hexachlorobenzene	91.6	100	92	92.0	100	92	76 - 119	<1	30
Hexachlorobutadiene	56.5	100	56	48.6	100	49	16 - 95	13	30
Hexachlorocyclopentadiene	62.2	100	62	80.8	100	<b>8</b> 1	10 - 99	27	30
Hexachloroethane	53.5	100	54	51.3	100	51	15 - 92	6	30
Indeno(I,2,3-cd)pyrene	81.4	100	81	85.3	100	85	64 - 126	5	30
Isophorone	163	100	163 *	88.3	100	88	61 - 128	60 '	50
N-Nitrosodi-n-propylamine	82.5	100	83	84.0	100	84	51 - 119	1	30
N-Nitrosodiphenylamine	93.2	100	93	91.5	100	92	45 - 123	1	30
Naphthalene	69.0	100	69	66.7	100	67	36 - 95	3	30
Nitrobenzene	157	100	157 *	80.7	100	81	51 - 113	64	* 30
Pentachlorophenol (PCP)	76.I	100	76	78.2	100	78	56 - 146	3	30
Phenanthrene	91.0	100	91	89.2	100	89	58 - 118	2	30
Phenol	28.0	100	28	37.5	100	38	10 - 113	30	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

QA/QC Report

Client:

Antea USA Inc

Project:

Queensbury, NY

Sample Matrix:

Water

Service Request: R1508835

Date Analyzed: 10/19/15

Lab Control Sample Summary Semivolatile Organic Compounds by GC/MS

Analytical Method:

8270D

Prep Method:

EPA 3510C

Units: µg/L

Basis: NA

Extraction Lot: 247341

Lab Control Sample

**Duplicate Lab Control Sample** 

RQ1512449-02 RQ1512449-03 **RPD** % Rec Spike Spike **RPD** Limit Amount % Rec Result **Amount** % Rec Limits Analyte Name Result 23 118 100 118 93.8 100 94 67 - 118 30 Pyrene

Results flagged with an asterisk (\*) indicate values outside control criteria.

ALS) Environmental

# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

28827

Р

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE

S Preservative Key 0. NONE HNO3 H2SO4 NaOH Zn. Acetate MeOH NaHSO4 REMARKS/ ALTERNATE DESCRIPTION © 2012 by ALS Group INVOICE INFORMATION FO# GEONS FALLS Other BILTO, SHLAND R1508835 ANALYSIS REQUESTED (Include Method Number and Container Preservative) Date/Time 0 100 N. Data Validation Report with Ru **Z** REPORT REQUIREMENTS (LCS, DUP, MS/MSD as required) . III. Results + QC and Calibration Summaries H. Results + OC Summaries RELINQUISHED BY Eclaria X I, Results Only 000 TURNAROUND REQUIREMENTS

KUSH (SURCHARGES APPLY) REQUESTED REPORT DATE > RECEIVED BY  $\times$ 0 Date/Time (O - 4 day. Signature **PRESERVATIVE** ANALYSK Date/Time 10/14/15@ 1542 ~ 5400005 RELINQUISHED BY 147 WATER م م Arabyon. Ckimmens. Cantagay Lan Sempler Printed Name Ckimmy Chemmens. SYAACUSU NY 13214 MATRIX WATON EMAIL; MARK, SCHUMACHER PANISHGROUP, CON Signature Ru Printed Name Rus Firm Antea Grav CARDLYN, CLUMMUS CANTUAGROOM, CON HUSE 11.20 CHARACTUNIZATION LIST (EPA GOIO, 7470A) SAMPLING アのス 10-14-15 51-41-01 5 Date/Time to Jry (15 /2 1900) DATE \* ELECTRONIC DATA DUE EXCUDI BOD (5047) O RECEIVED BY Project Number Report CC Printed Name Celes VAC TCL FULL LIST SVOC TCL FULL LIST FOR OFFICE USE ONLY LAB 1D WIDEWATUR PRWY Signature 6L ti Rij WASTE STATE WHERE SAMPLES WERE COLLECTED Sempler's Signature Clementonal ングインドインドイン 17:00 Prono \$ 15-552-9833 SPECIAL INSTRUCTIONS/COMMENTS Millian (Yearment) CANNOC CLEMNNENS CLIENT SAMPLE ID See OAPP | 11.2 TRIP BLANK From Arabia Group RELINQUISHED BY 51247 FALLS Date/Time to - IM - 15 / 146 TRAC RAC アンダの 444 K 39 of 40

Distribution: White - Lab Copy; Yellow - Return to Originator



# Cooler Receipt and Preservation Check Form

P	roject/Clie	nt	Ar	Hea	F0	older 1	Number_	<u>RI</u>	5088 33		
C	ooler receive	ed on 10-15-	15		by: 12	C	OURIER:	: ALS UP	s (FEDEX	ELOCITY CLI	ENT
Г		stody seals on		of co	ooler?	N	5a Percl	hlorate samp	les have required	l headspace?	Y N NA
1	Custody	papers proper	ly com	pleted	(ink, signed)? Y	N	5b Did V	VOA vials, A	k,or Sulfide hav	e sig* bubbles?	Y N NA
-	1				on (unbroken)?	N	6 When	re did the bot	les originate?	(ALS/ROC	CLIENT
1	Circle:	Vet Ice Dry	Ice G	el pac	ks present?	N	7 Soil	VOA receive	i as: Bulk	Encore 503	Sset NA
L_	Temperature	a Dandings	Dat	ارم.ا	15-15 Time: 09!	752	ID	IR#3 IR#	5 Fro	m: Temp Blank	Sample Bottle
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	Corrected Te			14							
ļ,	Within 0-6°C	2?	<del></del> '	$\langle y \rangle$	N Y N	,	Y N	YN	Y N	Y N	Y N
	f<0°C, were	e samples froz	en?	Y	N Y N		Y N	Y N	Y N	Y N	Y N
_	If out of T	emperature,	note p	acking	g/ice condition:		Ice me		oorly Packed	Same Da	=
	&Client A	pproval to R	un San	nples:	Standing	Appro	val Clier	nt aware at de	op-off Client	notified by:	
	All samples	held in storag	e locat	ion:	ROOR	by }	9	on 104	5-15 at (	9357	
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L.				<i>Z</i> )	,	<del>.</del>					
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	1. ₩	Vere all bottle i	labels c	omple	ete (i.e. analysis, pres	ervatio	ı, etc.)?		YES N	0	
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					agree with custody p	apers?				O	
	3. V 4. A	Vere correct co Air Samples: C	ntainer assette	s used	agree with custody p I for the tests indicate	apers? d?	isters Press	urized		O	N/A
	3. V 4. A Explain an	Vere correct co .ir Samples: C .y discrepanci	ntainer assette es:	s used s / Tut	agree with custody p I for the tests indicate coes Intact	apers? d? Can	i <b>sters Pre</b> ss		YES N Tedlar® Bag	O s Inflated	<b>=</b>
	3. V 4. A	Vere correct co Air Samples: C	ntainer assette	s used	agree with custody p I for the tests indicate	apers? d?			YES N Tedlar® Bag Lot Added	O s Inflated	N/A Yes=All samples OK
	3. V 4. A Explain an	Vere correct co .ir Samples: C .y discrepanci	ntainer assette es:	s used s / Tut	agree with custody p I for the tests indicate coes Intact	apers? d? Can	i <b>sters Pre</b> ss	ID Vol	YES N Tedlar® Bag Lot Added	O s Inflated Final	Yes=All samples OK
	3. V 4. A Explain an pH ≥12 ≤2	Vere correct co ir Samples: C ny discrepanci Reagent NaOH HNO3	ntainer assette es:	s used s / Tut	agree with custody p I for the tests indicate coes Intact	apers? d? Can	i <b>sters Pre</b> ss	ID Vol	YES N Tedlar® Bag Lot Added	O s Inflated Final	Yes=All samples OK No=Samples
	3. V 4. A Explain an pH  ≥12  ≤2 ≤2	Vere correct co ir Samples: C ny discrepanci Reagent NaOH HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub>	ntainer assette es:	s used s / Tut	agree with custody p I for the tests indicate coes Intact	apers? d? Can	i <b>sters Pre</b> ss	ID Vol	YES N Tedlar® Bag Lot Added	O s Inflated Final	Yes=All samples OK No=Samples were
	3. V 4. A Explain an pH  ≥12  ≤2  ≤2  <4	Vere correct co.ir Samples: Co.y discrepanci Reagent  NaOH  HNO3  H <sub>2</sub> SO <sub>4</sub> NaHSO <sub>4</sub>	ntainer assette es:	s used s / Tut	agree with custody p for the tests indicate pes Intact  Lot Received	apers? d? Can	i <b>sters Pre</b> ss	ID Vol	YES N Tedlar® Bag Lot Added	O s Inflated Final	Yes=All samples OK No=Samples were preserved at
	3. V 4. A Explain an pH  ≥12  ≤2  ≤2  <4 Residual	Vere correct co.ir Samples: Cay discrepanci Reagent NaOH HNO3 H <sub>2</sub> SO <sub>4</sub> NaHSO <sub>4</sub> For CN	ntainer assette es:	s used s / Tut	agree with custody p for the tests indicate ces Intact  Lot Received  If+, contact PM to	apers? d? Can	i <b>sters Pre</b> ss	ID Vol	YES N Tedlar® Bag Lot Added	O s Inflated Final	Yes=All samples OK No=Samples were
	3. V 4. A Explain an pH  ≥12 ≤2 ≤2 <4 Residual Chlorine	Vere correct co ir Samples: C ny discrepanci Reagent NaOH HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> NaHSO <sub>4</sub> For CN Phenol	ntainer assette es:	s used s / Tut	agree with custody p for the tests indicate pes Intact  Lot Received	apers? d? Can	i <b>sters Pre</b> ss	ID Vol	YES N Tedlar® Bag Lot Added	O s Inflated Final	Yes=All samples OK  No=Samples were preserved at The lab as
	3. V 4. A Explain an pH  ≥12  ≤2  ≤2  <4 Residual	Vere correct co ir Samples: C sy discrepanci Reagent NaOH HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> NaHSO <sub>4</sub> For CN Phenol and 522	ntainer assette es:	s used s / Tut	agree with custody p for the tests indicate ces Intact  Lot Received  If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN),	apers? d? Can	Sample	ID Vol	YES N Tedlar® Bag Lot Addec	O s Inflated Final pH	Yes=All samples OK No=Samples were preserved at The lab as listed PM OK to
	3. V 4. A Explain an pH  ≥12 ≤2 ≤2 <4 Residual Chlorine	Vere correct co ir Samples: C ny discrepanci Reagent NaOH HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> NaHSO <sub>4</sub> For CN Phenol	ntainer assette: es: Yes	s used s / Tub	agree with custody p for the tests indicate ces Intact  Lot Received  If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN),	apers? d? Can	Sample	ID Vol	YES N Tedlar® Bag  Lot Addec	S Inflated Final pH	Yes=All samples OK No=Samples were preserved at The lab as listed
	3. V 4. A Explain an pH  ≥12 ≤2 ≤2 <4 Residual Chlorine	Vere correct co ir Samples: C by discrepanci Reagent NaOH HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> NaHSO <sub>4</sub> For CN Phenol and 522 Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	ntainer assette: es: Yes	s used s / Tub No	agree with custody p for the tests indicate ces Intact  Lot Received  If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN),	apers? d? Can	Sample	ID Vol	YES N Tedlar® Bag Lot Addec	S Inflated Final pH	Yes=All samples OK No=Samples were preserved at The lab as listed PM OK to
	3. V 4. A Explain an pH  ≥12 ≤2 ≤4 Residual Chlorine (-)	Vere correct co ir Samples: C y discrepanci Reagent NaOH HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> NaHSO <sub>4</sub> For CN Phenol and 522 Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ZnAcetate HCl	ntainer assette es: Yes	s used s / Tub No	agree with custody p for the tests indicate ces Intact  Lot Received  If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN),	apers? d? Can	Sample	ID Vol	YES N Tedlar® Bag  Lot Addec	S Inflated Final pH	Yes=All samples OK No=Samples were preserved at The lab as listed PM OK to
	3. V 4. A Explain an pH  ≥12 ≤2 <4 Residual Chlorine (-)	Vere correct control Samples: Carlo	ntainer assette es: Yes	s used s / Tub No	agree with custody p for the tests indicate ces Intact  Lot Received  If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).	apers? d? Can Exp	sample  **Not to recorded	ID Vol	YES N Tedlar® Bag  Lot Addec	S Inflated Final pH	Yes=All samples OK No=Samples were preserved at The lab as listed PM OK to
	3. V 4. A Explain an pH  ≥12 ≤2 ≤4 Residual Chlorine (-)  Bottle lot a Other Con	Vere correct control Samples: Control Sa	ntainer assette es: Yes	s used s / Tub No	agree with custody p for the tests indicate ces Intact  Lot Received  If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).	apers? d? Can Exp	sample  **Not to recorded	ID Vol	YES N Tedlar® Bag  Lot Addec	S Inflated Final pH	Yes=All samples OK No=Samples were preserved at The lab as listed PM OK to
· ·	3. V 4. A Explain an pH  ≥12 ≤2 ≤4 Residual Chlorine (-)  Bottle lot a Other Con	Vere correct control Samples: Control Sa	ntainer assette es: Yes	s used s / Tub No	agree with custody p for the tests indicate ces Intact  Lot Received  If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN),	apers? d? Can Exp	sample  **Not to recorded	ID Vol	YES N Tedlar® Bag  Lot Addec	S Inflated Final pH	Yes=All samples OK No=Samples were preserved at The lab as listed PM OK to
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3. V 4. A Explain an pH  ≥12 ≤2 ≤4 Residual Chlorine (-)  Bottle lot a Other Con	Vere correct control Samples: Control Sa	ntainer assette es: Yes	s used s / Tub No	agree with custody p for the tests indicate ces Intact  Lot Received  If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).	apers? d? Can Exp	sample  **Not to recorded	ID Vol	YES N Tedlar® Bag  Lot Addec	S Inflated Final pH	Yes=All samples OK No=Samples were preserved at The lab as listed PM OK to
	3. V 4. A Explain an pH  ≥12 ≤2 ≤4 Residual Chlorine (-)  Bottle lot a Other Con	Vere correct control Samples: Control Sa	ntainer assette es: Yes	s used s / Tub No	agree with custody p for the tests indicate ces Intact  Lot Received  If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).	apers? d? Can Exp	sample  **Not to recorded	ID Vol	YES N Tedlar® Bag  Lot Addec	S Inflated Final pH	Yes=All samples OK No=Samples were preserved at The lab as listed PM OK to
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PC Secondary Review:

\*significant air bubbles: VOA > 5-6 mm: WC >1 in. diameter

9/24/15



Service Request No:R1508833

Mr. Mark Schumacher Antea USA Inc 5788 Widewaters Pkwy Syracuse, NY 13214

Laboratory Results for: Glens Falls -Queensbury, NY

Dear Mr.Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory October 15, 2015 For your reference, these analyses have been assigned our service request number **R1508833**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

Akeye

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes

**Project Manager** 

## **CASE NARRATIVE**

This report contains analytical results for the following samples:

Service Request Number: R1508833

SAMPLE #	CLIENT SAMPLE ID	<u>DATE</u>	<u>TIME</u>
R1508833-001	FRAC-1	10/14/2015	1100
R1508833-002	FRAC-3	10/14/2015	1120

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.



## REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits. Under the õNotesö column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an õimmediateö hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)

  The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



## Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

<sup>&</sup>lt;sup>1</sup> Analyses were performed according to our laboratory¢s NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <a href="http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads">http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads</a>

Analytical Report

Client: Antea USA Inc Service Request: R1508833

Project: Glens Falls -Queensbury, NY Date Collected: 10/14/15 11:00

Sample Matrix: Water Date Received: 10/15/15 09:35

Sample Name: FRAC-1 Basis: NA

**Lab Code:** R1508833-001

## **General Chemistry Parameters**

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0 U	mg/L	2.0	1	10/15/15 11:44	

Analytical Report

Client: Antea USA Inc

**Project:** Glens Falls -Queensbury, NY **Date Collected:** 10/14/15 11:20

Sample Matrix: Water Date Received: 10/15/15 09:35

Sample Name: FRAC-3 Basis: NA

**Lab Code:** R1508833-002

## **General Chemistry Parameters**

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.6	mg/L	2.0	1	10/15/15 11:43	

Service Request: R1508833

Analytical Report

Client: Antea USA Inc Service Request: R1508833

Project: Glens Falls -Queensbury, NY Date Collected: NA

Sample Matrix: Water Date Received: NA

Sample Name: Method Blank Basis: NA

**Lab Code:** R1508833-MB

## **General Chemistry Parameters**

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0 U	mg/L	2.0	1	10/15/15 12:40	

QA/QC Report

Client: Antea USA Inc

**Project:** Glens Falls -Queensbury, NY

Sample Matrix: Water

Service Request: R1508833

**Date Analyzed:** 10/15/15

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/L Basis:NA

Lab Control Sample

R1508833-LCS

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	194	198	98	85-115

# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

28827

Project Manager CI-FI - Cli autilitate drave graph STATE WHERE SAMPLES WERE COLLECTED EXCUPT BOD STANDARD B SHOAPP D V. 4 ST SPECIAL INSTRUCTIONS/COMMENTS 5758 WIDEWATURE EMAIL , MARK, SCHUMACHER CANTERGORD, COM GLENS FACES author Clemmins CAROLYN, CLEMMERS 2000 - DAY 200 ELECTRONIC CLIENT SAMPLE ID TAL RELINQUISHED BY Chemmers SCHUMBE HER 6157 FULL LIST LATT 7122 1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE DATA DUE Date/Time to [14] [15] (2 Printed Name EPA FOR OFFICE USE ONLY LAB ID P12 1017 CANTUAGAOUA. CON 6010 Carolyn RECEIVED BY Javanin Churrens Canteanna co Report CC Project Number SPrinted Name CIL YMYRUMS 10-14-15 10-14-15 5 Ya Acusu DATE SAMPLING このと Signature Printed Name Date/Inne 10/14/15@ 1543 11:10 イケク ALC ż RELINQUISHED BY (Trough MATER WATRIX ANACESK PRESERVATIVE NUMBER OF CONTAINERS Date/Time REQUESTED REPORT DATE TURNAROUND REQUIREMENTS

AUSH (SURCHARGES APPLY) — 1 day ——2 day 🙏 3 day ō ANALYSIS REQUESTED (Include Method Number and Container Preservative) RECEIVED BY 0 S S 000 Date/Time II. Results + QC Summaries \_\_\_ (V. Data Validation Report with Raw/ , III. Results + QC and Calibration I. Results Only (LCS, DUP, MS/MSD as required) REPORT REQUIREMENTS RELINQUISHED BY ē 904 R1508833 CCONS  $^{\lambda}$ Date/Time BILL TO: A SHLAND 0 읶 INVOICE INFORMATION ALTERNATE DESCRIPTION REMARKS/ FALLS Zn. Acetate MeOH NaHSO<sub>4</sub> Other Æ G Page 8 of 9



# Cooler Receipt and Preservation Check Form

Project/Clien	<sub>it</sub> And					Folder	Nur	mber_	215-	-88	<u> 33</u> .				
Cooler received	on 10-15	IS		by:	ME		cot	JRIER:	ALS	UPS (	FEDEX	ELOCI	TY CL	IENT	
	tody seals on		ofco		7	N	5a	Perc	hlorate	samples !	have required	i headsp	ace?	Y N NA	7
2 Custody p	papers proper	ly com	pleted	(ink, si	gned)? (Y	) N	5b	Did V	VOA vi	als, Alk,o	r Sulfide hav	e sig* b	ubbles?	Y N NA	_
3 Did all bot	tles arrive in	good co	onditio	on (unb	roken)? Y	N	6	When	re did th	e bottles	originate?	(AL	S/ROC	CLIENT	_
4 Circle: W	et Ice Dry	Ice G	el pac	ks p	resent? Y	N	7	Soil '	VOA re	ceived as	: Bulk	Encore	e 50:	35set NA	_
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Corrected Ter		â	145						<u> </u>						
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Cooler Brea	akdown: Dat	te : 10	115	715	Time:	170	0		y: <b></b>	WAR					
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Service Request No:R1509243

Mr. Mark Schumacher Antea USA Inc 5788 Widewaters Pkwy Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr.Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory October 30, 2015 For your reference, these analyses have been assigned our service request number **R1509243**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ARege

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes

Project Manager

## ALS ENVIRONMENTAL

Client:AnteaService Request No.:R1509243Project:Glens FallsDate Received:10/30/15

Sample Matrix: Water

## **CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Method Blank and Laboratory Control Sample (LCS).

## **Sample Receipt**

Samples were received for analysis at ALS-Rochester in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Hexavalent Chromium was analyzed slightly outside holding time due to start-up time on the instrument. The

Site QC was not requested, however performed for some analytes on sample FRAC 2. All QC limits were met. Calcium and Iron recoveries have been flagged with a "#" to denote that the sample concentrations were greater than 4-times the matrix spike and the control limits do not apply.

Various compounds were slightly outside QC limits for LCS/LCSD for Methods 8260C and 8270D.

All remaining QC criteria were met.

Client: Antea USA Inc Service Request:R1509243

**Project:** Queensbury, NY/Glens Falls

## **SAMPLE CROSS-REFERENCE**

SAMPLE #	CLIENT SAMPLE ID	DATE	<u>IIME</u>
R1509243-001	FRAC-2	10/29/2015	1115
R1509243-002	TRIP BLANK	10/29/2015	1115

Printed 11/5/2015 6:17:10 PM Sample Summary



# REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits. Under the õNotesö column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an õimmediateö hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)

  The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



## Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

<sup>&</sup>lt;sup>1</sup> Analyses were performed according to our laboratory

NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <a href="http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads">http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads</a>



## **INORGANIC PREPARATION METHODS**

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

## Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid	9030B
Soluble	
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual	SM 4500-CN-G
Cyanide	
SM 4500-CN-E WAD	SM 4500-CN-I
Cyanide	

## Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation
	Method
6010C	3050B
6020A	3050B
6010C TCLP (1311)	3005A/3010A
extract	
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/	DI extraction
353.2/ SM 2320B/ SM	
5210B/ 9056A Anions	

For analytical methods not listed, the preparation method is the same as the analytical method reference.

#### Analytical Report

Client: Antea USA Inc

ntea USA Inc

Service Request: R1509243

ueensbury, NY/Glens Falls

Date Collected: 10/29/15 11:15

**Project:** Queensbury, NY/Glens Falls

FRAC-2

**Date Received:** 10/30/15 09:45

**Sample Matrix:** Water

Basis: NA

Sample Name: Lab Code:

R1509243-001

# **General Chemistry Parameters**

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.312	mg/L	0.050	10	11/01/15 10:29	NA	
Chemical Oxygen Demand, Total	410.4	30.5	mg/L	5.0	1	10/30/15 13:30	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	10/30/15 11:24	NA	*
Cyanide, Total	9012B	0.249	mg/L	0.010	1	11/02/15 15:49	11/02/15	
pH	SM 4500-H+ B	7.28	pH Units	-	1	11/02/15 16:50	NA	Н
Phenolics, Total Recoverable	420.4 Modified	0.0068	mg/L	0.0050	1	11/03/15 09:45	NA	
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	85	mg/L	10	1	10/30/15 14:52	NA	
Sulfide	SM 4500-S2-F-2000(2011)	1.0 U	mg/L	1.0	1	11/03/15 10:58	NA	
Temperature of pH Analysis	SM 4500-H+ B	23.3	deg C	-	1	11/02/15 16:50	NA	Н

## Analytical Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls **Date Collected:** 10/29/15 11:15

Sample Matrix: Water

**Date Received:** 10/30/15 09:45

Service Request: R1509243

Sample Name: FRAC-2 Basis: NA

**Lab Code:** R1509243-001

# **Inorganic Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	7.35	mg/L	0.10	1	11/03/15 07:07	11/02/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/03/15 11:54	11/02/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/03/15 07:12	11/02/15	
Barium, Total	6010C	0.666	mg/L	0.020	1	11/03/15 07:12	11/02/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/03/15 07:12	11/02/15	
Cadmium, Total	6010C	0.0132	mg/L	0.0050	1	11/03/15 07:12	11/02/15	
Calcium, Total	6010C	19.9	mg/L	1.0	1	11/03/15 07:12	11/02/15	
Chromium, Total	6010C	0.501	mg/L	0.010	1	11/03/15 07:12	11/02/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/03/15 07:12	11/02/15	
Copper, Total	6010C	0.042	mg/L	0.020	1	11/03/15 07:12	11/02/15	
Iron, Total	6010C	20.0	mg/L	0.10	1	11/03/15 07:12	11/02/15	
Lead, Total	6010C	0.133	mg/L	0.050	1	11/03/15 07:12	11/02/15	
Magnesium, Total	6010C	3.6	mg/L	1.0	1	11/03/15 07:12	11/02/15	
Manganese, Total	6010C	0.214	mg/L	0.010	1	11/03/15 07:12	11/02/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/03/15 10:07	11/02/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/03/15 07:12	11/02/15	
Potassium, Total	6010C	2.8	mg/L	2.0	1	11/03/15 07:07	11/02/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/03/15 07:12	11/02/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/03/15 07:12	11/02/15	
Sodium, Total	6010C	9.9	mg/L	1.0	1	11/03/15 07:07	11/02/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/03/15 07:12	11/02/15	
Vanadium, Total	6010C	0.150	mg/L	0.050	1	11/03/15 07:12	11/02/15	
Zinc, Total	6010C	0.077	mg/L	0.020	1	11/03/15 07:12	11/02/15	

## Analytical Report

Client:Antea USA IncService Request:R1509243Project:Queensbury, NY/Glens FallsDate Collected:10/29/15 11:15

Sample Matrix: Water Date Received: 10/30/15 09:45

 Sample Name:
 FRAC-2
 Units: ug/L

 Lab Code:
 R1509243-001
 Basis: NA

## **Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	10/30/15 12:20	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	10/30/15 12:20	
1,1,2-Trichloroethane	5.0 U	5.0	1	10/30/15 12:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	10/30/15 12:20	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	10/30/15 12:20	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	10/30/15 12:20	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	10/30/15 12:20	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	10/30/15 12:20	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	10/30/15 12:20	
1,2-Dibromoethane	5.0 U	5.0	1	10/30/15 12:20	
1,2-Dichlorobenzene	5.0 U	5.0	1	10/30/15 12:20	
1,2-Dichloroethane	5.0 U	5.0	1	10/30/15 12:20	
1,2-Dichloropropane	5.0 U	5.0	1	10/30/15 12:20	
1,3-Dichlorobenzene	5.0 U	5.0	1	10/30/15 12:20	
1,4-Dichlorobenzene	5.0 U	5.0	1	10/30/15 12:20	
1,4-Dioxane	100 U	100	1	10/30/15 12:20	
2-Butanone (MEK)	17	10	1	10/30/15 12:20	
2-Hexanone	10 U	10	1	10/30/15 12:20	
4-Methyl-2-pentanone	10 U	10	1	10/30/15 12:20	
Acetone	110	10	1	10/30/15 12:20	
Benzene	5.0 U	5.0	1	10/30/15 12:20	
Bromochloromethane	5.0 U	5.0	1	10/30/15 12:20	
Bromodichloromethane	5.0 U	5.0	1	10/30/15 12:20	
Bromoform	5.0 U	5.0	1	10/30/15 12:20	
Bromomethane	5.0 U	5.0	1	10/30/15 12:20	
Carbon Disulfide	10 U	10	1	10/30/15 12:20	
Carbon Tetrachloride	5.0 U	5.0	1	10/30/15 12:20	
Chlorobenzene	5.0 U	5.0	1	10/30/15 12:20	
Chloroethane	5.0 U	5.0	1	10/30/15 12:20	
Chloroform	5.0 U	5.0	1	10/30/15 12:20	
Chloromethane	5.0 U	5.0	1	10/30/15 12:20	
Cyclohexane	10 U	10	1	10/30/15 12:20	
Dibromochloromethane	5.0 U	5.0	1	10/30/15 12:20	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	10/30/15 12:20	
Dichloromethane	5.0 U	5.0	1	10/30/15 12:20	
Ethylbenzene	5.0 U	5.0	1	10/30/15 12:20	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	10/30/15 12:20	
Methyl Acetate	10 U	10	1	10/30/15 12:20	
Methyl tert-Butyl Ether	5.0 U	5.0	1	10/30/15 12:20	
Methylcyclohexane	10 U	10	1	10/30/15 12:20	
Styrene	5.0 U	5.0	1	10/30/15 12:20	
Tetrachloroethene (PCE)	5.0 U	5.0	1	10/30/15 12:20	
Toluene	5.0 U	5.0	1	10/30/15 12:20	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509243

Project: Queensbury, NY/Glens Falls Date Collected: 10/29/15 11:15

Sample Matrix: Water Date Received: 10/30/15 09:45

 Sample Name:
 FRAC-2
 Units: ug/L

 Lab Code:
 R1509243-001
 Basis: NA

## **Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	10/30/15 12:20	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	10/30/15 12:20	
Vinyl Chloride	5.0 U	5.0	1	10/30/15 12:20	
cis-1,2-Dichloroethene	5.0 U	5.0	1	10/30/15 12:20	
cis-1,3-Dichloropropene	5.0 U	5.0	1	10/30/15 12:20	
m,p-Xylenes	5.0 U	5.0	1	10/30/15 12:20	
o-Xylene	5.0 U	5.0	1	10/30/15 12:20	
trans-1,2-Dichloroethene	5.0 U	5.0	1	10/30/15 12:20	
trans-1,3-Dichloropropene	5.0 U	5.0	1	10/30/15 12:20	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	10/30/15 12:20	
Dibromofluoromethane	102	89 - 119	10/30/15 12:20	
Toluene-d8	108	87 - 121	10/30/15 12:20	

## Analytical Report

Client:Antea USA IncService Request:R1509243Project:Queensbury, NY/Glens FallsDate Collected:10/29/15 11:15

Sample Matrix: Water Date Received: 10/30/15 09:45

 Sample Name:
 FRAC-2
 Units: ug/L

 Lab Code:
 R1509243-001
 Basis: NA

## Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	19 U	19	2	11/05/15 11:22	10/30/15	
2,3,4,6-Tetrachlorophenol	19 U	19	2	11/05/15 11:22	10/30/15	
2,4,5-Trichlorophenol	19 U	19	2	11/05/15 11:22	10/30/15	
2,4,6-Trichlorophenol	19 U	19	2	11/05/15 11:22	10/30/15	
2,4-Dichlorophenol	19 U	19	2	11/05/15 11:22	10/30/15	
2,4-Dimethylphenol	19 U	19	2	11/05/15 11:22	10/30/15	
2,4-Dinitrophenol	94 U	94	2	11/05/15 11:22	10/30/15	
2,4-Dinitrotoluene	19 U	19	2	11/05/15 11:22	10/30/15	
2,6-Dinitrotoluene	19 U	19	2	11/05/15 11:22	10/30/15	
2-Chloronaphthalene	19 U	19	2	11/05/15 11:22	10/30/15	
2-Chlorophenol	19 U	19	2	11/05/15 11:22	10/30/15	
2-Methylnaphthalene	19 U	19	2	11/05/15 11:22	10/30/15	
2-Methylphenol	19 U	19	2	11/05/15 11:22	10/30/15	
2-Nitroaniline	94 U	94	2	11/05/15 11:22	10/30/15	
2-Nitrophenol	19 U	19	2	11/05/15 11:22	10/30/15	
3,3'-Dichlorobenzidine	19 U	19	2	11/05/15 11:22	10/30/15	
3- and 4-Methylphenol Coelution	19 U	19	2	11/05/15 11:22	10/30/15	
3-Nitroaniline	94 U	94	2	11/05/15 11:22	10/30/15	
4,6-Dinitro-2-methylphenol	94 U	94	2	11/05/15 11:22	10/30/15	
4-Bromophenyl Phenyl Ether	19 U	19	2	11/05/15 11:22	10/30/15	
4-Chloro-3-methylphenol	19 U	19	2	11/05/15 11:22	10/30/15	
4-Chloroaniline	19 U	19	2	11/05/15 11:22	10/30/15	
4-Chlorophenyl Phenyl Ether	19 U	19	2	11/05/15 11:22	10/30/15	
4-Nitroaniline	94 U	94	2	11/05/15 11:22	10/30/15	
4-Nitrophenol	94 U	94	2	11/05/15 11:22	10/30/15	
Acenaphthene	19 U	19	2	11/05/15 11:22	10/30/15	
Acenaphthylene	19 U	19	2	11/05/15 11:22	10/30/15	
Acetophenone	19 U	19	2	11/05/15 11:22	10/30/15	
Anthracene	19 U	19	2	11/05/15 11:22	10/30/15	
Atrazine	19 U	19	2	11/05/15 11:22	10/30/15	
Benz(a)anthracene	19 U	19	2	11/05/15 11:22	10/30/15	
Benzaldehyde	94 U	94	2	11/05/15 11:22	10/30/15	
Benzo(a)pyrene	19 U	19	2	11/05/15 11:22	10/30/15	
Benzo(b)fluoranthene	19 U	19	2	11/05/15 11:22	10/30/15	
Benzo(g,h,i)perylene	19 U	19	2	11/05/15 11:22	10/30/15	
Benzo(k)fluoranthene	19 U	19	2	11/05/15 11:22	10/30/15	
Biphenyl	19 U	19	2	11/05/15 11:22	10/30/15	
2,2'-Oxybis(1-chloropropane)	19 U	19	2	11/05/15 11:22	10/30/15	
Bis(2-chloroethoxy)methane	19 U	19	2	11/05/15 11:22	10/30/15	
Bis(2-chloroethyl) Ether	19 U	19	2	11/05/15 11:22	10/30/15	
Bis(2-ethylhexyl) Phthalate	19 U	19	2	11/05/15 11:22	10/30/15	
Butyl Benzyl Phthalate	19 U	19	2	11/05/15 11:22	10/30/15	
Caprolactam	19 U	19	2	11/05/15 11:22	10/30/15	
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#### Analytical Report

Client:Antea USA IncService Request:R1509243Project:Queensbury, NY/Glens FallsDate Collected:10/29/15 11:15

Sample Matrix: Water Date Received: 10/30/15 09:45

 Sample Name:
 FRAC-2
 Units: ug/L

 Lab Code:
 R1509243-001
 Basis: NA

## Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Carbazole	19 U	19	2	11/05/15 11:22	10/30/15	
Chrysene	19 U	19	2	11/05/15 11:22	10/30/15	
Di-n-butyl Phthalate	19 U	19	2	11/05/15 11:22	10/30/15	
Di-n-octyl Phthalate	19 U	19	2	11/05/15 11:22	10/30/15	
Dibenz(a,h)anthracene	19 U	19	2	11/05/15 11:22	10/30/15	
Dibenzofuran	19 U	19	2	11/05/15 11:22	10/30/15	
Diethyl Phthalate	19 U	19	2	11/05/15 11:22	10/30/15	
Dimethyl Phthalate	180	19	2	11/05/15 11:22	10/30/15	
Fluoranthene	19 U	19	2	11/05/15 11:22	10/30/15	
Fluorene	19 U	19	2	11/05/15 11:22	10/30/15	
Hexachlorobenzene	19 U	19	2	11/05/15 11:22	10/30/15	
Hexachlorobutadiene	19 U	19	2	11/05/15 11:22	10/30/15	
Hexachlorocyclopentadiene	19 U	19	2	11/05/15 11:22	10/30/15	
Hexachloroethane	19 U	19	2	11/05/15 11:22	10/30/15	
Indeno(1,2,3-cd)pyrene	19 U	19	2	11/05/15 11:22	10/30/15	
Isophorone	19 U	19	2	11/05/15 11:22	10/30/15	
N-Nitrosodi-n-propylamine	19 U	19	2	11/05/15 11:22	10/30/15	
N-Nitrosodiphenylamine	19 U	19	2	11/05/15 11:22	10/30/15	
Naphthalene	19 U	19	2	11/05/15 11:22	10/30/15	
Nitrobenzene	19 U	19	2	11/05/15 11:22	10/30/15	
Pentachlorophenol (PCP)	94 U	94	2	11/05/15 11:22	10/30/15	
Phenanthrene	19 U	19	2	11/05/15 11:22	10/30/15	
Phenol	19 U	19	2	11/05/15 11:22	10/30/15	
Pyrene	19 U	19	2	11/05/15 11:22	10/30/15	

Surrogate Name	% Rec	<b>Control Limits</b>	<b>Date Analyzed</b>	Q
2,4,6-Tribromophenol	79	28 - 157	11/05/15 11:22	
2-Fluorobiphenyl	78	39 - 119	11/05/15 11:22	
2-Fluorophenol	36	10 - 105	11/05/15 11:22	
Nitrobenzene-d5	73	37 - 117	11/05/15 11:22	
Phenol-d6	25	10 - 107	11/05/15 11:22	
Terphenyl-d14	82	40 - 133	11/05/15 11:22	

#### Analytical Report

Client:Antea USA IncService Request:R1509243Project:Queensbury, NY/Glens FallsDate Collected:10/29/15 11:15

Sample Matrix: Water Date Received: 10/30/15 09:45

Sample Name:TRIP BLANKUnits: ug/LLab Code:R1509243-002Basis: NA

## **Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	10/30/15 11:56	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	10/30/15 11:56	
1,1,2-Trichloroethane	5.0 U	5.0	1	10/30/15 11:56	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	10/30/15 11:56	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	10/30/15 11:56	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	10/30/15 11:56	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	10/30/15 11:56	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	10/30/15 11:56	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	10/30/15 11:56	
1,2-Dibromoethane	5.0 U	5.0	1	10/30/15 11:56	
1,2-Dichlorobenzene	5.0 U	5.0	1	10/30/15 11:56	
1,2-Dichloroethane	5.0 U	5.0	1	10/30/15 11:56	
1,2-Dichloropropane	5.0 U	5.0	1	10/30/15 11:56	
1,3-Dichlorobenzene	5.0 U	5.0	1	10/30/15 11:56	
1,4-Dichlorobenzene	5.0 U	5.0	1	10/30/15 11:56	
1,4-Dioxane	100 U	100	1	10/30/15 11:56	
2-Butanone (MEK)	10 U	10	1	10/30/15 11:56	
2-Hexanone	10 U	10	1	10/30/15 11:56	
4-Methyl-2-pentanone	10 U	10	1	10/30/15 11:56	
Acetone	10 U	10	1	10/30/15 11:56	
Benzene	5.0 U	5.0	1	10/30/15 11:56	
Bromochloromethane	5.0 U	5.0	1	10/30/15 11:56	
Bromodichloromethane	5.0 U	5.0	1	10/30/15 11:56	
Bromoform	5.0 U	5.0	1	10/30/15 11:56	
Bromomethane	5.0 U	5.0	1	10/30/15 11:56	
Carbon Disulfide	10 U	10	1	10/30/15 11:56	
Carbon Tetrachloride	5.0 U	5.0	1	10/30/15 11:56	
Chlorobenzene	5.0 U	5.0	1	10/30/15 11:56	
Chloroethane	5.0 U	5.0	1	10/30/15 11:56	
Chloroform	5.0 U	5.0	1	10/30/15 11:56	
Chloromethane	5.0 U	5.0	1	10/30/15 11:56	
Cyclohexane	10 U	10	1	10/30/15 11:56	
Dibromochloromethane	5.0 U	5.0	1	10/30/15 11:56	
	5.0 U	5.0	1	10/30/15 11:56	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	10/30/15 11:56	
Dichloromethane	5.0 U	5.0	1	10/30/15 11:56	
Ethylbenzene		5.0			
Isopropylbenzene (Cumene)	5.0 U		1	10/30/15 11:56	
Methyl Acetate	10 U	10	1	10/30/15 11:56	
Methyl tert-Butyl Ether	5.0 U	5.0	1	10/30/15 11:56	
Methylcyclohexane	10 U	10	1	10/30/15 11:56	
Styrene	5.0 U	5.0	1	10/30/15 11:56	
Tetrachloroethene (PCE)	5.0 U	5.0	1	10/30/15 11:56	
Toluene	5.0 U	5.0	1	10/30/15 11:56	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509243

Project: Queensbury, NY/Glens Falls Date Collected: 10/29/15 11:15

Sample Matrix: Water Date Received: 10/30/15 09:45

Sample Name:TRIP BLANKUnits: ug/LLab Code:R1509243-002Basis: NA

## **Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	10/30/15 11:56	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	10/30/15 11:56	
Vinyl Chloride	5.0 U	5.0	1	10/30/15 11:56	
cis-1,2-Dichloroethene	5.0 U	5.0	1	10/30/15 11:56	
cis-1,3-Dichloropropene	5.0 U	5.0	1	10/30/15 11:56	
m,p-Xylenes	5.0 U	5.0	1	10/30/15 11:56	
o-Xylene	5.0 U	5.0	1	10/30/15 11:56	
trans-1,2-Dichloroethene	5.0 U	5.0	1	10/30/15 11:56	
trans-1,3-Dichloropropene	5.0 U	5.0	1	10/30/15 11:56	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	10/30/15 11:56	
Dibromofluoromethane	102	89 - 119	10/30/15 11:56	
Toluene-d8	106	87 - 121	10/30/15 11:56	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509243

Project: Queensbury, NY/Glens Falls Date Collected: NA

Sample Matrix: Water Date Received: NA

Sample Name: Method Blank Basis: NA

**Lab Code:** R1509243-MB

# **General Chemistry Parameters**

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	11/01/15 08:04	NA	
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	1	10/30/15 13:30	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	10/30/15 11:16	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/02/15 15:36	11/02/15	
Phenolics, Total Recoverable	420.4 Modified	0.0050 U	mg/L	0.0050	1	11/03/15 09:45	NA	
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	1.0 U	mg/L	1.0	1	10/30/15 14:52	NA	
Sulfide	SM 4500-S2-F-2000(2011)	1.0 U	mg/L	1.0	1	11/03/15 10:58	NA	

## Analytical Report

Client: Antea USA Inc Service Request: R1509243

Project: Queensbury, NY/Glens Falls Date Collected: NA

Sample Matrix: Water Date Received: NA

Sample Name: Method Blank Basis: NA

**Lab Code:** R1509243-MB

# **Inorganic Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/03/15 06:50	11/02/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/03/15 11:41	11/02/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/03/15 06:37	11/02/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/03/15 06:37	11/02/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/03/15 06:37	11/02/15	
Calcium, Total	6010C	1.0 U	mg/L	1.0	1	11/03/15 06:37	11/02/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/03/15 06:37	11/02/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/03/15 06:37	11/02/15	
Iron, Total	6010C	0.10 U	mg/L	0.10	1	11/03/15 06:37	11/02/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/03/15 06:37	11/02/15	
Magnesium, Total	6010C	1.0 U	mg/L	1.0	1	11/03/15 06:37	11/02/15	
Manganese, Total	6010C	0.010 U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/03/15 10:03	11/02/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/03/15 06:37	11/02/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/03/15 06:50	11/02/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Sodium, Total	6010C	1.0 U	mg/L	1.0	1	11/03/15 06:50	11/02/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/03/15 06:37	11/02/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/03/15 06:37	11/02/15	

## Analytical Report

Client: Antea USA Inc Service Request: R1509243

Project: Queensbury, NY/Glens Falls

Date Collected: NA

Sample Matrix: Water Date Received: NA

 Sample Name:
 Method Blank
 Units: ug/L

 Lab Code:
 RQ1513461-01
 Basis: NA

## **Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	10/30/15 11:32	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	10/30/15 11:32	
1,1,2-Trichloroethane	5.0 U	5.0	1	10/30/15 11:32	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	10/30/15 11:32	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	10/30/15 11:32	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	10/30/15 11:32	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	10/30/15 11:32	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	10/30/15 11:32	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	10/30/15 11:32	
1,2-Dibromoethane	5.0 U	5.0	1	10/30/15 11:32	
1,2-Dichlorobenzene	5.0 U	5.0	1	10/30/15 11:32	
1,2-Dichloroethane	5.0 U	5.0	1	10/30/15 11:32	
1,2-Dichloropropane	5.0 U	5.0	1	10/30/15 11:32	
1,3-Dichlorobenzene	5.0 U	5.0	1	10/30/15 11:32	
1,4-Dichlorobenzene	5.0 U	5.0	1	10/30/15 11:32	
1,4-Dioxane	100 U	100	1	10/30/15 11:32	
2-Butanone (MEK)	10 U	10	1	10/30/15 11:32	
2-Hexanone	10 U	10	1	10/30/15 11:32	
4-Methyl-2-pentanone	10 U	10	1	10/30/15 11:32	
Acetone	10 U	10	1	10/30/15 11:32	
Benzene	5.0 U	5.0	1	10/30/15 11:32	
Bromochloromethane	5.0 U	5.0	1	10/30/15 11:32	
Bromodichloromethane	5.0 U	5.0	1	10/30/15 11:32	
Bromoform	5.0 U	5.0	1	10/30/15 11:32	
	5.0 U	5.0	1	10/30/15 11:32	
Bromomethane Carbon Disulfide	10 U	10	1	10/30/15 11:32	
	5.0 U	5.0	1	10/30/15 11:32	
Carbon Tetrachloride	5.0 U	5.0	1	10/30/15 11:32	
Chlorobenzene	5.0 U	5.0	1	10/30/15 11:32	
Chloroethane	5.0 U	5.0	1		
Chloroform	5.0 U	5.0		10/30/15 11:32 10/30/15 11:32	
Chloromethane			1		
Cyclohexane	10 U	10 5.0	1	10/30/15 11:32	
Dibromochloromethane	5.0 U		1	10/30/15 11:32	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	10/30/15 11:32	
Dichloromethane	5.0 U	5.0	1	10/30/15 11:32	
Ethylbenzene	5.0 U	5.0	1	10/30/15 11:32	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	10/30/15 11:32	
Methyl Acetate	10 U	10	1	10/30/15 11:32	
Methyl tert-Butyl Ether	5.0 U	5.0	1	10/30/15 11:32	
Methylcyclohexane	10 U	10	1	10/30/15 11:32	
Styrene	5.0 U	5.0	1	10/30/15 11:32	
Tetrachloroethene (PCE)	5.0 U	5.0	1	10/30/15 11:32	
Toluene	5.0 U	5.0	1	10/30/15 11:32	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509243

Project:Queensbury, NY/Glens FallsDate Collected:NASample Matrix:WaterDate Received:NA

Sample Name:Method BlankUnits: ug/LLab Code:RQ1513461-01Basis: NA

## **Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	10/30/15 11:32	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	10/30/15 11:32	
Vinyl Chloride	5.0 U	5.0	1	10/30/15 11:32	
cis-1,2-Dichloroethene	5.0 U	5.0	1	10/30/15 11:32	
cis-1,3-Dichloropropene	5.0 U	5.0	1	10/30/15 11:32	
m,p-Xylenes	5.0 U	5.0	1	10/30/15 11:32	
o-Xylene	5.0 U	5.0	1	10/30/15 11:32	
trans-1,2-Dichloroethene	5.0 U	5.0	1	10/30/15 11:32	
trans-1,3-Dichloropropene	5.0 U	5.0	1	10/30/15 11:32	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	10/30/15 11:32	
Dibromofluoromethane	101	89 - 119	10/30/15 11:32	
Toluene-d8	106	87 - 121	10/30/15 11:32	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509243

Project:Queensbury, NY/Glens FallsDate Collected:NASample Matrix:WaterDate Received:NA

 Sample Name:
 Method Blank
 Units: ug/L

 Lab Code:
 RQ1513286-01
 Basis: NA

## Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	10 U	10	1	11/04/15 15:13	10/30/15	
2,3,4,6-Tetrachlorophenol	10 U	10	1	11/04/15 15:13	10/30/15	
2,4,5-Trichlorophenol	10 U	10	1	11/04/15 15:13	10/30/15	
2,4,6-Trichlorophenol	10 U	10	1	11/04/15 15:13	10/30/15	
2,4-Dichlorophenol	10 U	10	1	11/04/15 15:13	10/30/15	
2,4-Dimethylphenol	10 U	10	1	11/04/15 15:13	10/30/15	
2,4-Dinitrophenol	50 U	50	1	11/04/15 15:13	10/30/15	
2,4-Dinitrotoluene	10 U	10	1	11/04/15 15:13	10/30/15	
2,6-Dinitrotoluene	10 U	10	1	11/04/15 15:13	10/30/15	
2-Chloronaphthalene	10 U	10	1	11/04/15 15:13	10/30/15	
2-Chlorophenol	10 U	10	1	11/04/15 15:13	10/30/15	
2-Methylnaphthalene	10 U	10	1	11/04/15 15:13	10/30/15	
2-Methylphenol	10 U	10	1	11/04/15 15:13	10/30/15	
2-Nitroaniline	50 U	50	1	11/04/15 15:13	10/30/15	
2-Nitrophenol	10 U	10	1	11/04/15 15:13	10/30/15	
3,3'-Dichlorobenzidine	10 U	10	1	11/04/15 15:13	10/30/15	
3- and 4-Methylphenol Coelution	10 U	10	1	11/04/15 15:13	10/30/15	
3-Nitroaniline	50 U	50	1	11/04/15 15:13	10/30/15	
4,6-Dinitro-2-methylphenol	50 U	50	1	11/04/15 15:13	10/30/15	
4-Bromophenyl Phenyl Ether	10 U	10	1	11/04/15 15:13	10/30/15	
4-Chloro-3-methylphenol	10 U	10	1	11/04/15 15:13	10/30/15	
4-Chloroaniline	10 U	10	1	11/04/15 15:13	10/30/15	
4-Chlorophenyl Phenyl Ether	10 U	10	1	11/04/15 15:13	10/30/15	
4-Nitroaniline	50 U	50	1	11/04/15 15:13	10/30/15	
4-Nitrophenol	50 U	50	1	11/04/15 15:13	10/30/15	
Acenaphthene	10 U	10	1	11/04/15 15:13	10/30/15	
Acenaphthylene	10 U	10	1	11/04/15 15:13	10/30/15	
Acetophenone	10 U	10	1	11/04/15 15:13	10/30/15	
Anthracene	10 U	10	1	11/04/15 15:13	10/30/15	
Atrazine	10 U	10	1	11/04/15 15:13	10/30/15	
Benz(a)anthracene	10 U	10	1	11/04/15 15:13	10/30/15	
Benzaldehyde	50 U	50	1	11/04/15 15:13	10/30/15	
Benzo(a)pyrene	10 U	10	1	11/04/15 15:13	10/30/15	
Benzo(b)fluoranthene	10 U	10	1	11/04/15 15:13	10/30/15	
Benzo(g,h,i)perylene	10 U	10	1	11/04/15 15:13	10/30/15	
Benzo(k)fluoranthene	10 U	10	1	11/04/15 15:13	10/30/15	
Biphenyl	10 U	10	1	11/04/15 15:13	10/30/15	
2,2'-Oxybis(1-chloropropane)	10 U	10	1	11/04/15 15:13	10/30/15	
Bis(2-chloroethoxy)methane	10 U	10	1	11/04/15 15:13	10/30/15	
Bis(2-chloroethyl) Ether	10 U	10	1	11/04/15 15:13	10/30/15	
Bis(2-ethylhexyl) Phthalate	10 U	10	1	11/04/15 15:13	10/30/15	
Butyl Benzyl Phthalate	10 U	10	1	11/04/15 15:13	10/30/15	
Caprolactam	10 U	10	1	11/04/15 15:13	10/30/15	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509243

Project: Queensbury, NY/Glens Falls

Date Collected: NA

Sample Matrix: Water Date Received: NA

 Sample Name:
 Method Blank
 Units: ug/L

 Lab Code:
 RQ1513286-01
 Basis: NA

## Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Carbazole	10 U	10	1	11/04/15 15:13	10/30/15	
Chrysene	10 U	10	1	11/04/15 15:13	10/30/15	
Di-n-butyl Phthalate	10 U	10	1	11/04/15 15:13	10/30/15	
Di-n-octyl Phthalate	10 U	10	1	11/04/15 15:13	10/30/15	
Dibenz(a,h)anthracene	10 U	10	1	11/04/15 15:13	10/30/15	
Dibenzofuran	10 U	10	1	11/04/15 15:13	10/30/15	
Diethyl Phthalate	10 U	10	1	11/04/15 15:13	10/30/15	
Dimethyl Phthalate	10 U	10	1	11/04/15 15:13	10/30/15	
Fluoranthene	10 U	10	1	11/04/15 15:13	10/30/15	
Fluorene	10 U	10	1	11/04/15 15:13	10/30/15	
Hexachlorobenzene	10 U	10	1	11/04/15 15:13	10/30/15	
Hexachlorobutadiene	10 U	10	1	11/04/15 15:13	10/30/15	
Hexachlorocyclopentadiene	10 U	10	1	11/04/15 15:13	10/30/15	
Hexachloroethane	10 U	10	1	11/04/15 15:13	10/30/15	
Indeno(1,2,3-cd)pyrene	10 U	10	1	11/04/15 15:13	10/30/15	
Isophorone	10 U	10	1	11/04/15 15:13	10/30/15	
N-Nitrosodi-n-propylamine	10 U	10	1	11/04/15 15:13	10/30/15	
N-Nitrosodiphenylamine	10 U	10	1	11/04/15 15:13	10/30/15	
Naphthalene	10 U	10	1	11/04/15 15:13	10/30/15	
Nitrobenzene	10 U	10	1	11/04/15 15:13	10/30/15	
Pentachlorophenol (PCP)	50 U	50	1	11/04/15 15:13	10/30/15	
Phenanthrene	10 U	10	1	11/04/15 15:13	10/30/15	
Phenol	10 U	10	1	11/04/15 15:13	10/30/15	
Pyrene	10 U	10	1	11/04/15 15:13	10/30/15	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
2,4,6-Tribromophenol	70	28 - 157	11/04/15 15:13	
2-Fluorobiphenyl	63	39 - 119	11/04/15 15:13	
2-Fluorophenol	34	10 - 105	11/04/15 15:13	
Nitrobenzene-d5	60	37 - 117	11/04/15 15:13	
Phenol-d6	24	10 - 107	11/04/15 15:13	
Terphenyl-d14	76	40 - 133	11/04/15 15:13	

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

Sample Matrix: Water

Service Request: R1509243

**Date Analyzed:** 10/30/15 - 11/03/15

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/L Basis:NA

# Lab Control Sample

R1509243-LCS1

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.497	0.500	99	90-110
Chemical Oxygen Demand, Total	410.4	52.2	50.0	104	90-110
Chromium, Hexavalent	7196A	0.0948	0.100	95	80-120
Cyanide, Total	9012B	0.0980	0.100	98	85-115
Phenolics, Total Recoverable	420.4 Modified	0.0365	0.0400	91	90-110
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	214	214	100	80-120

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

Sample Matrix:

Water

Service Request: R1509243

**Date Analyzed:** 11/02/15

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/L Basis:NA

# Lab Control Sample

R1509243-LCS2

<b>Analyte Name</b>	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Cvanide, Total	9012B	0.373	0.400	93	85-115

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

**Sample Matrix:** 

Water

Service Request: R1509243

**Date Analyzed:** 11/03/15

# **Duplicate Lab Control Sample Summary General Chemistry Parameters**

Units:mg/L Basis:NA

Lab Control Sample

**Duplicate Lab Control Sample** 

R1509243-LCS3

R1509243-DLCS3

			Spike			Spike		% Rec		RPD
<b>Analyte Name</b>	Analytical Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Sulfide	SM 4500-S2-F-2000(2011)	3.85	3.5	110	3.83	3.5	110	67-143	<1	20

## ALS Group USA, Corp.

#### dba ALS Environmental

QA/QC Report

Client: Antea USA Inc Service Request: R1509243

Project Queensbury, NY/Glens Falls Date Collected: 10/29/15

Sample Matrix:WaterDate Received:10/30/15Date Analyzed:10/30/15

Replicate Sample Summary General Chemistry Parameters

Sample Name: FRAC-2 Units: mg/L

**Lab Code:** R1509243-001 **Basis:** NA

Duplicate Sample R1509243-

Sample **001DUP Analysis Method** Result **RPD** Limit **Analyte Name** MRL Result **RPD** Average Chromium, Hexavalent 7196A 0.010 0.010 U 0.010 U NC NC 20 Solids, Total Suspended (TSS) SM 2540 D-1997(2011) 10 85 86 85.5 1 10

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: Antea USA Inc

Queensbury, NY/Glens Falls

**Sample Matrix:** Water

**Project:** 

**Service Request:** 

R1509243

**Date Collected:** 

10/29/15

**Date Received:** Date Analyzed: 10/30/15 10/30/15

**Matrix Spike Summary** 

Chromium, Hexavalent

**Sample Name:** FRAC-2

Lab Code: R1509243-001 **Units:** 

mg/L

NA

**Basis:** 

**Analysis Method:** 

7196A

**Matrix Spike** 

R1509243-001MS

Analyte Name Sample Result **Spike Amount** % Rec % Rec Limits Result Chromium, Hexavalent 0.010 U 0.105 0.100 105

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

**Inorganic Parameters** 

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

Sample Matrix: Water

Lab Control Sample Summary

Units:mg/L Basis:NA

Service Request: R1509243

**Date Analyzed:** 11/03/15

# **Lab Control Sample**

R1509243-LCS

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	1.95	2.00	97	80-120
Antimony, Total	6010C	0.483	0.500	97	80-120
Arsenic, Total	6010C	0.0404	0.040	101	80-120
Barium, Total	6010C	2.03	2.00	102	80-120
Beryllium, Total	6010C	0.0472	0.0500	94	80-120
Cadmium, Total	6010C	0.0499	0.0500	100	80-120
Calcium, Total	6010C	2.03	2.0	101	80-120
Chromium, Total	6010C	0.207	0.200	103	80-120
Cobalt, Total	6010C	0.487	0.500	97	80-120
Copper, Total	6010C	0.259	0.250	104	80-120
Iron, Total	6010C	1.04	1.00	104	80-120
Lead, Total	6010C	0.494	0.500	99	80-120
Magnesium, Total	6010C	2.03	2.0	101	80-120
Manganese, Total	6010C	0.502	0.500	100	80-120
Mercury, Total	7470A	0.000974	0.00100	97	80-120
Nickel, Total	6010C	0.508	0.500	102	80-120
Potassium, Total	6010C	18.7	20.0	94	80-120
Selenium, Total	6010C	0.838	1.01	83	80-120
Silver, Total	6010C	0.0501	0.050	100	80-120
Sodium, Total	6010C	18.7	20.0	94	80-120
Thallium, Total	6010C	1.96	2.00	98	80-120
Vanadium, Total	6010C	0.484	0.500	97	80-120
Zinc, Total	6010C	0.500	0.500	100	80-120

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## ALS Group USA, Corp.

#### dba ALS Environmental

QA/QC Report

Client: Antea USA Inc

**Project** Queensbury, NY/Glens Falls

Sample Matrix: Water

Service Request: R1509243

**Date Collected:** 10/29/15 **Date Received:** 10/30/15

**Date Analyzed:** 11/03/15

# Replicate Sample Summary Inorganic Parameters

 Sample Name:
 FRAC-2
 Units: mg/L

 Lab Code:
 R1509243-001
 Basis: NA

#### **Duplicate Sample** R1509243-Analysis Sample **001DUP Analyte Name** Method **MRL** Result Result Average **RPD RPD Limit** Aluminum, Total 6010C 7.35 6.88 14 20 0.10 6.41 Antimony, Total 6010C 0.060 0.060 U 0.060 U NC NC 20 Arsenic, Total 6010C 0.010 0.010 U 0.010 U NC NC 20 Barium, Total 6010C 20 0.020 0.666 0.665 0.665 <1 Beryllium, Total 6010C 0.0030 0.0030 U 0.0030 U NC NC 20 Cadmium, Total 0.0132 20 6010C 0.0050 0.0132 0.0132 <1 Calcium, Total 6010C 1.0 19.9 19.8 19.8 <1 20 Chromium, Total 6010C 20 0.010 0.501 0.499 0.500 <1 Cobalt, Total NC 6010C 0.050 0.050 U 0.050 U NC 20 Copper, Total 6010C 0.020 0.042 0.042 0.0421 <1 20 Iron, Total 6010C 20.0 19.7 2 20 0.10 19.8 Lead, Total 0.134 <1 20 6010C 0.050 0.133 0.133 Magnesium, Total 6010C 1.0 3.6 3.6 3.60 1 20 20 Manganese, Total 6010C 0.010 0.214 0.213 0.213 <1 Nickel, Total 6010C 0.040 0.040 U 0.040 U NC NC 20 Potassium, Total 6010C 2.0 2.8 2.4 2.61 14 20 Selenium, Total 6010C 0.010 0.010 U 0.010 U NC NC 20 NC Silver, Total 6010C NC 20 0.010 0.010 U 0.010 U Sodium, Total 6010C 20 1.0 9.9 8.8 9.35 11 Thallium, Total 6010C 0.010 U NC 0.010 0.010 U NC 20 Vanadium, Total 20 6010C 0.050 0.150 0.149 0.149 <1

0.077

0.077

0.0767

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

6010C

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

0.020

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Zinc, Total

<1

20

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

**Sample Matrix:** Water

Date Collected: 10/29/15
Date Received: 10/30/15
Date Analyzed: 11/3/15

Service Request:R1509243

Matrix Spike Summary Inorganic Parameters

**Sample Name:** FRAC-2

**Lab Code:** R1509243-001

Units:mg/L Basis:NA

# Matrix Spike R1509243-001MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	7.35	8.25	2.00	45 *	75-125
Antimony, Total	6010C	0.060	0.472	0.500	94	75-125
Arsenic, Total	6010C	0.010	0.040	0.040	101	75-125
Barium, Total	6010C	0.666	2.59	2.00	96	75-125
Beryllium, Total	6010C	0.0030	0.0459	0.0500	92	75-125
Cadmium, Total	6010C	0.0132	0.0592	0.0500	92	75-125
Calcium, Total	6010C	19.9	21.7	2.0	91#	75-125
Chromium, Total	6010C	0.501	0.714	0.200	106	75-125
Cobalt, Total	6010C	0.050	0.474	0.500	95	75-125
Copper, Total	6010C	0.042	0.288	0.250	98	75-125
Iron, Total	6010C	20.0	20.9	1.00	95 #	75-125
Lead, Total	6010C	0.133	0.604	0.500	94	75-125
Magnesium, Total	6010C	3.6	5.4	2.0	87	75-125
Manganese, Total	6010C	0.214	0.694	0.500	96	75-125
Nickel, Total	6010C	0.040	0.511	0.500	102	75-125
Potassium, Total	6010C	2.8	20.8	20.0	90	75-125
Selenium, Total	6010C	0.010	0.911	1.01	90	75-125
Silver, Total	6010C	0.010	0.049	0.050	98	75-125
Sodium, Total	6010C	9.9	27.4	20.0	88	75-125
Thallium, Total	6010C	0.010	1.82	2.00	91	75-125
Vanadium, Total	6010C	0.150	0.609	0.500	92	75-125
Zinc, Total	6010C	0.077	0.544	0.500	93	75-125

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

Sample Matrix: Water

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# Lab Control Sample Summary Volatile Organic Compounds by GC/MS

Units:ug/L Basis:NA

Superset Reference: 15-0000352565 rev 00

Service Request: R1509243

**Date Analyzed:** 10/30/15

## **Lab Control Sample**

RQ1513461-02

Analytical

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	23.9	20.0	119	74-120
1,1,2,2-Tetrachloroethane	8260C	22.6	20.0	113	78-122
1,1,2-Trichloroethane	8260C	20.3	20.0	102	82-118
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	22.4	20.0	112	75-124
1,1-Dichloroethane (1,1-DCA)	8260C	24.4	20.0	122 *	78-117
1,1-Dichloroethene (1,1-DCE)	8260C	23.3	20.0	116	74-135
1,2,3-Trichlorobenzene	8260C	21.1	20.0	105	56-164
1,2,4-Trichlorobenzene	8260C	21.0	20.0	105	68-147
1,2-Dibromo-3-chloropropane (DBCP)	8260C	19.8	20.0	99	55-149
1,2-Dibromoethane	8260C	22.3	20.0	111	81-125
1,2-Dichlorobenzene	8260C	20.5	20.0	102	80-119
1,2-Dichloroethane	8260C	21.9	20.0	109	71-127
1,2-Dichloropropane	8260C	22.0	20.0	110	80-119
1,3-Dichlorobenzene	8260C	20.8	20.0	104	79-121
1,4-Dichlorobenzene	8260C	21.1	20.0	105	79-119
1,4-Dioxane	8260C	376	400	94	69-151
2-Butanone (MEK)	8260C	21.3	20.0	106	61-137
2-Hexanone	8260C	18.8	20.0	94	63-124
4-Methyl-2-pentanone	8260C	18.7	20.0	94	66-124
Acetone	8260C	24.6	20.0	123	40-161
Benzene	8260C	21.3	20.0	106	76-118
Bromochloromethane	8260C	20.3	20.0	102	81-126
Bromodichloromethane	8260C	22.8	20.0	114	78-126
Bromoform	8260C	19.2	20.0	96	71-136
Bromomethane	8260C	17.4	20.0	87	42-166
Carbon Disulfide	8260C	22.8	20.0	114	65-127
Carbon Tetrachloride	8260C	21.3	20.0	106	68-125
Chlorobenzene	8260C	20.2	20.0	101	80-121
Chloroethane	8260C	22.2	20.0	111	70-127
Chloroform	8260C	22.5	20.0	112	76-120
Chloromethane	8260C	17.0	20.0	85	69-145
Cyclohexane	8260C	18.3	20.0	91	63-121
Dibromochloromethane	8260C	21.8	20.0	109	77-128

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

Sample Matrix: Water

**Service Request:** R1509243 **Date Analyzed:** 10/30/15

# Lab Control Sample Summary Volatile Organic Compounds by GC/MS

Units:ug/L Basis:NA

## **Lab Control Sample**

RQ1513461-02

Analysis Name	Analytical Mathed	D14	C 21 A4	0/ D	0/ D - 1 - 14
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	23.1	20.0	116	65-152
Dichloromethane	8260C	20.7	20.0	103	73-122
Ethylbenzene	8260C	21.7	20.0	108	76-120
Isopropylbenzene (Cumene)	8260C	20.3	20.0	102	78-126
Methyl Acetate	8260C	18.8	20.0	94	62-131
Methyl tert-Butyl Ether	8260C	23.1	20.0	116	78-125
Methylcyclohexane	8260C	18.8	20.0	94	51-129
Styrene	8260C	20.1	20.0	100	80-124
Tetrachloroethene (PCE)	8260C	19.3	20.0	96	78-124
Toluene	8260C	21.6	20.0	108	77-120
Trichloroethene (TCE)	8260C	20.1	20.0	100	78-123
Trichlorofluoromethane (CFC 11)	8260C	21.7	20.0	109	68-126
Vinyl Chloride	8260C	19.3	20.0	97	69-133
cis-1,2-Dichloroethene	8260C	22.6	20.0	113	80-121
cis-1,3-Dichloropropene	8260C	22.9	20.0	114	74-126
m,p-Xylenes	8260C	41.4	40.0	104	78-123
o-Xylene	8260C	19.4	20.0	97	80-120
trans-1,2-Dichloroethene	8260C	23.6	20.0	118	80-120
trans-1,3-Dichloropropene	8260C	23.0	20.0	115	67-135

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

Sample Matrix: Water

# Duplicate Lab Control Sample Summary Semivolatile Organic Compounds by GC/MS

Units:ug/L Basis:NA

Service Request: R1509243

**Date Analyzed:** 11/04/15

**Lab Control Sample** 

**Duplicate Lab Control Sample** 

RQ1513286-02

RQ1513286-03

Analyte Name	Analytica l Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	8270D	53.3	100	53	58.0	100	58	25-123	9	30
2,3,4,6-Tetrachlorophenol	8270D	94.8	100	95	108	100	108	81-137	13	30
2,4,5-Trichlorophenol	8270D	79.4	100	79	86.6	100	87	62-117	10	30
2,4,6-Trichlorophenol	8270D	77.7	100	78	81.6	100	82	62-115	5	30
2,4-Dichlorophenol	8270D	72.0	100	72	79.1	100	79	62-109	9	30
2,4-Dimethylphenol	8270D	66.9	100	67	77.3	100	77	28-100	14	30
2,4-Dinitrophenol	8270D	71.6	100	72	83.8	100	84	40-156	15	30
2,4-Dinitrotoluene	8270D	76.9	100	77	86.5	100	86	69-122	11	30
2,6-Dinitrotoluene	8270D	81.0	100	81	88.4	100	88	48-125	8	30
2-Chloronaphthalene	8270D	61.7	100	62	67.4	100	67	47-98	8	30
2-Chlorophenol	8270D	60.8	100	61	70.3	100	70	42-112	14	30
2-Methylnaphthalene	8270D	58.4	100	58	62.8	100	63	34-102	8	30
2-Methylphenol	8270D	55.0	100	55 *	68.8	100	69	59-104	23	30
2-Nitroaniline	8270D	77.9	100	78	86.5	100	87	60-119	11	30
2-Nitrophenol	8270D	72.6	100	73	79.7	100	80	60-113	9	30
3,3'-Dichlorobenzidine	8270D	60.9	100	61	66.8	100	67	44-114	9	30
3- and 4-Methylphenol Coelution	8270D	97.4	200	49 *	127	200	63	50-111	25	30
3-Nitroaniline	8270D	56.6	100	57	63.7	100	64	50-112	12	30
4,6-Dinitro-2-methylphenol	8270D	80.4	100	80	88.9	100	89	65-141	11	30
4-Bromophenyl Phenyl Ether	8270D	75.2	100	75	80.4	100	80	63-124	6	30
4-Chloro-3-methylphenol	8270D	71.5	100	71	80.8	100	81	42-124	13	30
4-Chloroaniline	8270D	61.2	100	61	66.9	100	67	40-111	9	30
4-Chlorophenyl Phenyl Ether	8270D	72.9	100	73	78.7	100	79	59-112	8	30
4-Nitroaniline	8270D	79.2	100	79	89.3	100	89	62-127	12	30
4-Nitrophenol	8270D	32.7	100	33	50.0	100	50	10-126	41*	30
Acenaphthene	8270D	69.5	100	70	74.1	100	74	54-125	6	30
Acenaphthylene	8270D	71.9	100	72	76.6	100	77	69-111	7	30
Acetophenone	8270D	75.3	100	75	81.2	100	81	42-126	8	30
Anthracene	8270D	77.5	100	78	82.4	100	82	55-116	5	30
Atrazine	8270D	122	100	122	126	100	126	10-160	3	30
Benz(a)anthracene	8270D	77.9	100	78	84.5	100	84	66-110	7	30
Benzaldehyde	8270D	141	100	141	152	100	152	46-200	8	30
Benzo(a)pyrene	8270D	79.2	100	79	84.6	100	85	44-114	7	30

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QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls

Sample Matrix: Water

# Duplicate Lab Control Sample Summary Semivolatile Organic Compounds by GC/MS

Units:ug/L Basis:NA

Service Request: R1509243

**Date Analyzed:** 11/04/15

**Lab Control Sample** 

**Duplicate Lab Control Sample** 

RQ1513286-02

RQ1513286-03

Analyte Name	l Method		Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzo(b)fluoranthene	8270D	Result 74.6	100	75	80.3	100	80	64-122	6	30
Benzo(g,h,i)perylene	8270D	79.6	100	80	86.2	100	86	60-127	7	30
Benzo(k)fluoranthene	8270D	75.2	100	75	82.2	100	82	49-133	9	30
Biphenyl	8270D	62.1	100	62	66.5	100	66	30-126	6	30
2,2'-Oxybis(1-chloropropane)	8270D	77.4	100	77	86.5	100	86	44-112	11	30
Bis(2-chloroethoxy)methane	8270D	75.4	100	75	80.8	100	81	53-142	8	30
Bis(2-chloroethyl) Ether	8270D	66.7	100	67	75.3	100	75	56-106	11	30
Bis(2-ethylhexyl) Phthalate	8270D	80.9	100	81	88.4	100	88	62-124	8	30
Butyl Benzyl Phthalate	8270D	80.0	100	80	85.1	100	85	41-148	6	30
Caprolactam	8270D	19.5	100	20	25.3	100	25	10-41	22	30
Carbazole	8270D	79.4	100	79	84.7	100	85	66-117	7	30
Chrysene	8270D	80.7	100	81	87.1	100	87	57-118	7	30
Di-n-butyl Phthalate	8270D	82.3	100	82	88.5	100	88	57-139	7	30
Di-n-octyl Phthalate	8270D	82.1	100	82	90.0	100	90	72-146	9	30
Dibenz(a,h)anthracene	8270D	81.6	100	82	86.9	100	87	58-132	6	30
Dibenzofuran	8270D	68.9	100	69	73.9	100	74	58-105	7	30
Diethyl Phthalate	8270D	76.6	100	77	86.4	100	86	65-122	11	30
Dimethyl Phthalate	8270D	73.3	100	73	83.1	100	83	69-115	13	30
Fluoranthene	8270D	83.2	100	83	89.3	100	89	62-123	7	30
Fluorene	8270D	72.2	100	72	80.1	100	80	60-112	11	30
Hexachlorobenzene	8270D	80.8	100	81	85.5	100	85	76-119	5	30
Hexachlorobutadiene	8270D	47.0	100	47	51.3	100	51	16-95	8	30
Hexachlorocyclopentadiene	8270D	53.4	100	53	58.9	100	59	10-99	11	30
Hexachloroethane	8270D	43.7	100	44	48.6	100	49	15-92	11	30
Indeno(1,2,3-cd)pyrene	8270D	78.5	100	78	84.5	100	85	64-126	9	30
Isophorone	8270D	79.2	100	79	85.5	100	85	61-128	7	30
N-Nitrosodi-n-propylamine	8270D	74.8	100	75	81.0	100	81	51-119	8	30
N-Nitrosodiphenylamine	8270D	81.6	100	82	87.3	100	87	45-123	6	30
Naphthalene	8270D	58.2	100	58	63.3	100	63	36-95	8	30
Nitrobenzene	8270D	71.1	100	71	77.4	100	77	51-113	8	30
Pentachlorophenol (PCP)	8270D	70.6	100	71	77.1	100	77	56-146	8	30
Phenanthrene	8270D	80.6	100	81	85.1	100	85	58-118	5	30
Phenol	8270D	22.5	100	22	34.0	100	34	10-113	43*	30

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QA/QC Report

Client: Antea USA Inc

Project: Queensbury, NY/Glens Falls Date Analyzed: 11/04/15

Sample Matrix: Water

Duplicate Lab Control Sample Summary Semivolatile Organic Compounds by GC/MS

> Units:ug/L Basis:NA

Service Request: R1509243

**Lab Control Sample** 

**Duplicate Lab Control Sample** 

RQ1513286-02

RQ1513286-03

	Analytica		Spike			Spike		% Rec		RPD	
Analyte Name	l Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit	
Pyrene	8270D	87.6	100	88	95.8	100	96	67-118	9	30	

Printed 11/5/2015 6:17:39 PM



# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1565 Jefferson Road, Building 300, Suite 360 ∙ Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE

email: mark. schwmacher @anter group.com Antes Metals 315-552-9838 04/67/24/15 @ 12:35 Bury Dlummer STATE WHERE SAMPLES WERE COLLECTED 5788 WIDEWORKS FLWY, FT SYRACUSC, NY Project Name OENS See QAPP SYOC TCL FULL LIST SPECIAL INSTRUCTIONS/COMMENTS Max & Schumacher VOC TCL full List \* electronic data due for all analyses except BOD (5-day) munder Clemmen on 3-day TAT. Standard data spackage threst waste CLIENT SAMPLE ID TAL LIGH (EPA HELINQUISHED BY BLANK and the Commune FALLS Shraw Mistura (ADTHT, DIO) FOR OFFICE USE 10100115 12:88 00120115 RECEIVED BY Sampler's Printed Name Cham Mans andy o . Demmers on keyoup Report CC Project Number characterization samples 10-21-15 DATE SAMPLING NO MY WING WING 115 BELLEVING NORTH 13214 RELINGUISHED BY MATRIX Zartor' 1200 1900 | Date/Time}0-30-15 13 PRESERVATIVE NUMBER OF CONTAINERS 11.3-15 CDB RUSH (SURCHARGES APPLY) TUBNAROUND REQUIREMENTS \_\_ 1 day \_\_ 4 day \_\_\_ ANALYSIS REQUESTED (Include Method Number and Container Preservative) RECEIVED BY 0 1. Esmenin \_2 day 🗶 3 day 54.40 0 Date/Time Printed Name II. Results + QC Summaries \_ IV. Data Validation Rep .III. Results + OC and Calibration Summaries (LCS, DUP, MS/MSD as required) REPORT REQUIREMENTS Edata < Phenois 42 RELINQUISHED by O تز R1509243 Date/Time BILL TO: Printed Name Signature 410.4 0 유 INVOICE INFORMATION Glens Falls REMARKS/ ALTERNATE DESCRIPTION Ashland Ŋ Preservative Key

NONE HCL HNO3 H2SO4 NaOH Zn. Acetate MeOH NaHSO4 Other S



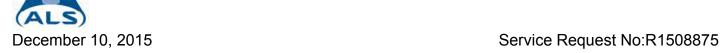
# Cooler Receipt and Preservation Check Form

R1509243	5
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Project/Clie	nt				NE.	_Fol	lder 1	Num	ber	C18	92	243	·				- men erese till 186
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2 Custody	papers prope	rly com	pleted	(ink, s	igned)? (	<u>ү</u> и	1	5b 3	Did V	OA vi	als, Alk,	or Sulfi	de have	sig* bu	bbles?	YN	NA.
3 Did all bo	ttles arrive in	good c	ondití	on (una	roken)?	Ŷ) N		6	Where	e did ti	ne bottles	origin	ate?	(AL	S/ROC	CLIE	NT
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PC Secondary Review:

\*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter



Mr. Mark Schumacher Antea USA Inc 5788 Widewaters Pkwy Syracuse, NY 13214

Laboratory Results for: Glens Falls -Queensbury, NY

Dear Mr.Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory October 16, 2015 For your reference, these analyses have been assigned our service request number **R1508875**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

Akege

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes

**Project Manager** 

#### ALS ENVIRONMENTAL

Client:Antea USA Inc.Service Request No.:R1508875Project:Glens FallsDate Received:10/16/15

**Sample Matrix:** Waste

#### REVISED CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Method Blank and Laboratory Control Sample (LCS).

## **Sample Receipt**

Samples were received for analysis at ALS-Rochester. The samples were received within acceptable temperature and in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

#### **Inorganics**

Site QC was not requested however performed on Sludge 1. All QC limits were met, with the exception of various metals that have sample concentrations greater than 4-times the matrix spike concentration. The spike recoveries are flagged with "#" indicating that they are not a valid assessment of matrix interference. Arsenic demonstrated a slightly low bias in the MS recovery and has been flagged with an "\*".

All remaining QC criteria were met.

#### **REPORT REVISON REQUESTED 12/04/15:**

This report has been revised and resubmitted after the client has requested the sample ID be changed from "Sludge 1" to "WC-1".

Client: Antea USA Inc Service Request:R1508875

**Project:** Glens Falls -Queensbury, NY

# SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	<u>DATE</u>	<u>TIME</u>
R1508875-001	TRIP BLANK	10/15/2015	
R1508875-002	WC-1	10/15/2015	1330
R1508875-003	WC-1	10/15/2015	1330



# REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)

  The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



#### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

<sup>&</sup>lt;sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <a href="http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads">http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads</a>



## **INORGANIC PREPARATION METHODS**

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

## Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid	9030B
Soluble	
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual	SM 4500-CN-G
Cyanide	
SM 4500-CN-E WAD	SM 4500-CN-I
Cyanide	

## Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation
	Method
6010C	3050B
6020A	3050B
6010C TCLP (1311)	3005A/3010A
extract	
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/	DI extraction
353.2/ SM 2320B/ SM	
5210B/ 9056A Anions	

For analytical methods not listed, the preparation method is the same as the analytical method reference.

#### Analytical Report

Client:Antea USA IncService Request:R1508875Project:Glens Falls -Queensbury, NYDate Collected:10/15/15

Sample Matrix: Water Date Received: 10/16/15 09:20

Sample Name:TRIP BLANKUnits: ug/LLab Code:R1508875-001Basis: NA

#### **Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	10/17/15 12:20	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/17/15 12:20	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/17/15 12:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.31	1	10/17/15 12:20	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	10/17/15 12:20	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	10/17/15 12:20	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.82	1	10/17/15 12:20	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.23	1	10/17/15 12:20	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.74	1	10/17/15 12:20	
1,2-Dibromoethane	1.0 U	1.0	0.24	1	10/17/15 12:20	
1,2-Dichlorobenzene	1.0 U	1.0	0.21	1	10/17/15 12:20	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/17/15 12:20	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/17/15 12:20	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	10/17/15 12:20	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	10/17/15 12:20	
1,4-Dioxane	40 U	40	20	1	10/17/15 12:20	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/17/15 12:20	
2-Hexanone	5.0 U	5.0	1.7	1	10/17/15 12:20	
4-Methyl-2-pentanone	5.0 U	5.0	0.67	1	10/17/15 12:20	
Acetone	5.0 U	5.0	1.3	1	10/17/15 12:20	
Benzene	1.0 U	1.0	0.20	1	10/17/15 12:20	
	1.0 U	1.0	0.20	1	10/17/15 12:20	
Bromochloromethane	1.0 U	1.0	0.32	1	10/17/15 12:20	
Bromodichloromethane	1.0 U 1.0 U	1.0	0.32		10/17/15 12:20	
Bromoform			0.42	1		
Bromomethane	1.0 U	1.0	0.29	1	10/17/15 12:20	
Carbon Disulfide	1.0 U	1.0		1	10/17/15 12:20	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/17/15 12:20	
Chlorobenzene	1.0 U	1.0	0.29	1	10/17/15 12:20	
Chloroethane	1.0 U	1.0	0.24	1	10/17/15 12:20	
Chloroform	1.0 U	1.0	0.25	1	10/17/15 12:20	
Chloromethane	1.0 U	1.0	0.21	1	10/17/15 12:20	
Cyclohexane	1.0 U	1.0	0.25	1	10/17/15 12:20	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/17/15 12:20	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.46	1	10/17/15 12:20	
Dichloromethane	1.0 U	1.0	0.60	1	10/17/15 12:20	
Ethylbenzene	1.0 U	1.0	0.20	1	10/17/15 12:20	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	10/17/15 12:20	
Methyl Acetate	2.0 U	2.0	0.43	1	10/17/15 12:20	
Methyl tert-Butyl Ether	1.0 U	1.0	0.29	1	10/17/15 12:20	
Methylcyclohexane	1.0 U	1.0	0.27	1	10/17/15 12:20	
Styrene	1.0 U	1.0	0.20	1	10/17/15 12:20	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/17/15 12:20	
Toluene	1.0 U	1.0	0.20	1	10/17/15 12:20	

#### Analytical Report

**Client:** Antea USA Inc

Service Request: R1508875 **Date Collected:** 10/15/15 **Project:** Glens Falls -Queensbury, NY

**Sample Matrix:** Water **Date Received:** 10/16/15 09:20

TRIP BLANK **Sample Name:** Units: ug/L Lab Code: R1508875-001 Basis: NA

#### **Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	10/17/15 12:20	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.20	1	10/17/15 12:20	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/17/15 12:20	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/17/15 12:20	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/17/15 12:20	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/17/15 12:20	
o-Xylene	1.0 U	1.0	0.20	1	10/17/15 12:20	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/17/15 12:20	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/17/15 12:20	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	107	85 - 122	10/17/15 12:20	
Dibromofluoromethane	98	89 - 119	10/17/15 12:20	
Toluene-d8	103	87 - 121	10/17/15 12:20	

#### Analytical Report

**Client:** Antea USA Inc

Service Request: R1508875 **Date Collected:** 10/15/15 13:30 **Project:** Glens Falls -Queensbury, NY

**Date Received:** 10/16/15 09:20 **Sample Matrix:** Sludge, Solid

**Sample Name:** WC-1 Basis: Dry

Lab Code: R1508875-002

### **General Chemistry Parameters**

							Date	
Analyte Name	<b>Analysis Method</b>	Result	Units	MRL	Dil.	<b>Date Analyzed</b>	Extracted	Q
Chromium, Hexavalent	7196A	23 U	mg/Kg	23	1	10/20/15 14:00	10/20/15	
Cyanide, Reactive	9014	110 U	mg/Kg	110	1	10/19/15 18:04	10/19/15	
Cyanide, Total	9012B	23.8	mg/Kg	0.56	1	10/19/15 10:51	10/16/15	
Phenolics, Total Recoverable	9066 Modified	0.58 U	mg/Kg	0.58	1	10/16/15 11:30	10/16/15	
Sulfide, Reactive	9034 Modified	570 U	mg/Kg	570	1	10/19/15 16:09	10/19/15	

Analytical Report

Client: Antea USA Inc Service Request: R1508875

Project: Glens Falls -Queensbury, NY Date Collected: 10/15/15 13:30

Sample Matrix: Sludge, Solid Date Received: 10/16/15 09:20

Sample Name: WC-1 Basis: As Received

**Lab Code:** R1508875-002

### **General Chemistry Parameters**

							Date	
Analyte Name	<b>Analysis Method</b>	Result	Units	MRL	Dil.	<b>Date Analyzed</b>	Extracted	Q
Flash Point	ASTM D92-05a	>100	deg C	-	1	10/17/15 10:30	NA	
Free Liquid	9095B	Present	NONE	-	1	10/20/15 14:30	NA	
рН	9045D	7.17	pH Units	-	1	10/19/15 17:21	NA	Н
Total Solids	ALS SOP	17.0	Percent	=	1	10/20/15 12:36	NA	

#### Analytical Report

Client: Antea USA Inc Service Request: R1508875

Project:Glens Falls -Queensbury, NYDate Collected:10/15/15 13:30Sample Matrix:Sludge, SolidDate Received:10/16/15 09:20

Sample Name: WC-1 Basis: As Received

**Lab Code:** R1508875-002

# Toxicity Characteristics Leachate Procedure (TCLP) Inorganic Parameters

**Pre-Prep Method:** EPA 1311

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Arsenic	6010C	0.50 U	mg/L	0.50	1	10/20/15 11:19	10/19/15	
Barium	6010C	12.5	mg/L	1.0	1	10/21/15 04:55	10/19/15	
Cadmium	6010C	0.28	mg/L	0.10	1	10/20/15 11:19	10/19/15	
Chromium	6010C	2.17	mg/L	0.10	1	10/20/15 11:19	10/19/15	
Lead	6010C	0.40	mg/L	0.10	1	10/20/15 11:19	10/19/15	
Mercury	7470A	0.00030 U	mg/L	0.00030	1	10/20/15 14:49	10/20/15	
Selenium	6010C	0.50 U	mg/L	0.50	1	10/20/15 11:19	10/19/15	
Silver	6010C	0.10 U	mg/L	0.10	1	10/20/15 11:19	10/19/15	

#### Analytical Report

Client: Antea USA Inc Service Request: R1508875

Project: Glens Falls -Queensbury, NY Date Collected: 10/15/15 13:30

Sample Matrix: Sludge, Solid Date Received: 10/16/15 09:20

Sample Name: WC-1 Units: ug/L

Lab Code: R1508875-002 Basis: As Received

#### **TCLP Volatile Organics by GC/MS**

Analysis Method: 8260C Pre-Prep Method: EPA 1311

**Pre-Prep Date:** 10/16/15

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1-Dichloroethene (1,1-DCE)	50 U	50	10	10/19/15 14:13	
1,2-Dichloroethane	50 U	50	10	10/19/15 14:13	
2-Butanone (MEK)	100 U	100	10	10/19/15 14:13	
Benzene	50 U	50	10	10/19/15 14:13	
Carbon Tetrachloride	50 U	50	10	10/19/15 14:13	
Chlorobenzene	50 U	50	10	10/19/15 14:13	
Chloroform	50 U	50	10	10/19/15 14:13	
Tetrachloroethene (PCE)	50 U	50	10	10/19/15 14:13	
Trichloroethene (TCE)	50 U	50	10	10/19/15 14:13	
Vinyl Chloride	50 U	50	10	10/19/15 14:13	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	10/19/15 14:13	
Dibromofluoromethane	100	89 - 119	10/19/15 14:13	
Toluene-d8	104	87 - 121	10/19/15 14:13	

#### Analytical Report

Client: Antea USA Inc Service Request: R1508875

Project: Glens Falls -Queensbury, NY Date Collected: 10/15/15 13:30

Sample Matrix: Sludge, Solid Date Received: 10/16/15 09:20

Sample Name: WC-1 Units: ug/L

Lab Code: R1508875-002 Basis: As Received

#### TCLP Semivolatile Organic Compounds by GC/MS

Analysis Method:8270DPre-Prep Method:EPA 1311Prep Method:EPA 3510CPre-Prep Date:10/16/15

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dichlorobenzene	100 U	100	1	10/21/15 14:10	10/19/15	
2,4,5-Trichlorophenol	100 U	100	1	10/21/15 14:10	10/19/15	
2,4,6-Trichlorophenol	100 U	100	1	10/21/15 14:10	10/19/15	
2,4-Dinitrotoluene	100 U	100	1	10/21/15 14:10	10/19/15	
2-Methylphenol	100 U	100	1	10/21/15 14:10	10/19/15	
3- and 4-Methylphenol Coelution	100 U	100	1	10/21/15 14:10	10/19/15	
Hexachlorobenzene	100 U	100	1	10/21/15 14:10	10/19/15	
Hexachlorobutadiene	100 U	100	1	10/21/15 14:10	10/19/15	
Hexachloroethane	100 U	100	1	10/21/15 14:10	10/19/15	
Nitrobenzene	100 U	100	1	10/21/15 14:10	10/19/15	
Pentachlorophenol (PCP)	500 U	500	1	10/21/15 14:10	10/19/15	
Pyridine	500 U	500	1	10/21/15 14:10	10/19/15	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
2,4,6-Tribromophenol	103	28 - 157	10/21/15 14:10	
2-Fluorobiphenyl	90	39 - 119	10/21/15 14:10	
2-Fluorophenol	59	10 - 105	10/21/15 14:10	
Nitrobenzene-d5	93	37 - 117	10/21/15 14:10	
Phenol-d6	39	10 - 107	10/21/15 14:10	
p-Terphenyl-d14	111	40 - 133	10/21/15 14:10	

Analytical Report

Client: Antea USA Inc

Antea USA Inc

Service Request: R1508875

Glens Falls -Queensbury, NY

Date Collected: 10/15/15 13:30

Project: Glens Falls -Queensbur
Sample Matrix: Sludge, Solid

Sludge, Solid **Date Received:** 10/16/15 09:20

Sample Name: WC-1 Basis: As Received

**Lab Code:** R1508875-003

### **General Chemistry Parameters**

Analysis

	Allalysis						
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	16.8	Percent	-	1	10/20/15 12:36	

#### Analytical Report

Client: Antea USA Inc

Project: Glens Falls -Queensbury, NY Date Collected: 10/15/15 13:30

Sample Matrix: Sludge, Solid Date Received: 10/16/15 09:20

Sample Name: WC-1 Basis: Dry

**Lab Code:** R1508875-003

### **Inorganic Parameters**

	Analysis							
<b>Analyte Name</b>	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Aluminum, Total	6010C	24900	mg/Kg	57	1	10/20/15 09:36	10/19/15	
Antimony, Total	6010C	49	mg/Kg	34	1	10/19/15 18:49	10/19/15	
Arsenic, Total	6010C	5.7 U	mg/Kg	5.7	1	10/19/15 18:49	10/19/15	
Barium, Total	6010C	2040	mg/Kg	11	1	10/19/15 18:49	10/19/15	
Beryllium, Total	6010C	1.7 U	mg/Kg	1.7	1	10/19/15 18:49	10/19/15	
Cadmium, Total	6010C	61.9	mg/Kg	2.9	1	10/19/15 18:49	10/19/15	
Calcium, Total	6010C	45900	mg/Kg	5700	10	10/19/15 18:15	10/19/15	
Chromium, Total	6010C	2390	mg/Kg	5.7	1	10/19/15 18:49	10/19/15	
Cobalt, Total	6010C	63	mg/Kg	29	1	10/19/15 18:49	10/19/15	
Copper, Total	6010C	131	mg/Kg	11	1	10/20/15 09:36	10/19/15	
Iron, Total	6010C	81200	mg/Kg	570	10	10/19/15 18:15	10/19/15	
Lead, Total	6010C	545	mg/Kg	29	1	10/20/15 09:36	10/19/15	
Magnesium, Total	6010C	15200	mg/Kg	570	1	10/19/15 18:49	10/19/15	
Manganese, Total	6010C	819	mg/Kg	5.7	1	10/19/15 18:49	10/19/15	
Mercury, Total	7471B	8.62	mg/Kg	0.18	1	10/19/15 12:58	10/19/15	
Nickel, Total	6010C	239	mg/Kg	23	1	10/19/15 18:49	10/19/15	
Potassium, Total	6010C	2700	mg/Kg	1100	1	10/19/15 18:49	10/19/15	
Selenium, Total	6010C	5.9	mg/Kg	5.7	1	10/20/15 09:36	10/19/15	
Silver, Total	6010C	5.7 U	mg/Kg	5.7	1	10/19/15 18:49	10/19/15	
Sodium, Total	6010C	730	mg/Kg	570	1	10/19/15 18:49	10/19/15	
Thallium, Total	6010C	5.7 U	mg/Kg	5.7	1	10/19/15 18:49	10/19/15	
Vanadium, Total	6010C	533	mg/Kg	29	1	10/19/15 18:49	10/19/15	
Zinc, Total	6010C	294	mg/Kg	11	1	10/20/15 09:36	10/19/15	

Service Request: R1508875

#### Analytical Report

Client: Antea USA Inc Service Request: R1508875

Project: Glens Falls -Queensbury, NY Date Collected: NA

Sample Matrix: Sludge, Solid Date Received: NA

Sample Name: Method Blank Basis: Dry

**Lab Code:** R1508875-MB

### **General Chemistry Parameters**

							Date	
Analyte Name	<b>Analysis Method</b>	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Chromium, Hexavalent	7196A	4.0 U	mg/Kg	4.0	1	10/20/15 14:00	10/20/15	
Cyanide, Reactive	9014	20 U	mg/Kg	20	1	10/19/15 17:54	10/19/15	
Cyanide, Total	9012B	0.10 U	mg/Kg	0.10	1	10/19/15 10:46	10/16/15	
Phenolics, Total Recoverable	9066 Modified	0.10 U	mg/Kg	0.10	1	10/16/15 11:30	10/16/15	
Sulfide, Reactive	9034 Modified	100 U	mg/Kg	100	1	10/19/15 16:09	10/19/15	

Analytical Report

**Client:** Antea USA Inc

Service Request: R1508875

**Project:** Glens Falls -Queensbury, NY Date Collected: NA Date Received: NA

**Sample Matrix:** Sludge, Solid

Basis: As Received

**Sample Name:** Lab Code:

Method Blank R1508875-MB

### **General Chemistry Parameters**

							Date	
Analyte Name	<b>Analysis Method</b>	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Free Liquid	9095B	Absent	NONE	-	1	10/20/15 14:30	NA	

#### Analytical Report

Client: Antea USA Inc Service Request: R1508875

Project:Glens Falls -Queensbury, NYDate Collected:NASample Matrix:Sludge, SolidDate Received:NA

Sample Name: Method Blank Basis: As Received

**Lab Code:** R1508875-MB1

# Toxicity Characteristics Leachate Procedure (TCLP) Inorganic Parameters

**Pre-Prep Method:** EPA 1311

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Arsenic	6010C	0.50 U	mg/L	0.50	1	10/20/15 10:44	10/19/15	
Barium	6010C	1.0 U	mg/L	1.0	1	10/21/15 03:17	10/19/15	
Cadmium	6010C	0.10 U	mg/L	0.10	1	10/20/15 10:44	10/19/15	
Chromium	6010C	0.10 U	mg/L	0.10	1	10/20/15 10:44	10/19/15	
Lead	6010C	0.10 U	mg/L	0.10	1	10/20/15 10:44	10/19/15	
Mercury	7470A	0.00030 U	mg/L	0.00030	1	10/20/15 14:12	10/20/15	
Selenium	6010C	0.50 U	mg/L	0.50	1	10/20/15 10:44	10/19/15	
Silver	6010C	0.10 U	mg/L	0.10	1	10/20/15 10:44	10/19/15	

#### Analytical Report

Client: Antea USA Inc Service Request: R1508875

Project: Glens Falls -Queensbury, NY Date Collected: NA

Sample Matrix: Sludge, Solid Date Received: NA

Sample Name: Method Blank Basis: Dry

**Lab Code:** R1508875-MB2

### **Inorganic Parameters**

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Aluminum, Total	6010C	10 U	mg/Kg	10	1	10/20/15 09:24	10/19/15	
Antimony, Total	6010C	6.0 U	mg/Kg	6.0	1	10/19/15 18:01	10/19/15	
Arsenic, Total	6010C	1.0 U	mg/Kg	1.0	1	10/19/15 18:01	10/19/15	
Barium, Total	6010C	2.0 U	mg/Kg	2.0	1	10/19/15 18:01	10/19/15	
Beryllium, Total	6010C	0.30 U	mg/Kg	0.30	1	10/19/15 18:01	10/19/15	
Cadmium, Total	6010C	0.50 U	mg/Kg	0.50	1	10/19/15 18:01	10/19/15	
Calcium, Total	6010C	100 U	mg/Kg	100	1	10/19/15 18:01	10/19/15	
Chromium, Total	6010C	1.0 U	mg/Kg	1.0	1	10/19/15 18:01	10/19/15	
Cobalt, Total	6010C	5.0 U	mg/Kg	5.0	1	10/19/15 18:01	10/19/15	
Copper, Total	6010C	2.0 U	mg/Kg	2.0	1	10/20/15 09:24	10/19/15	
Iron, Total	6010C	10 U	mg/Kg	10	1	10/19/15 18:01	10/19/15	
Lead, Total	6010C	5.0 U	mg/Kg	5.0	1	10/20/15 09:24	10/19/15	
Magnesium, Total	6010C	100 U	mg/Kg	100	1	10/19/15 18:01	10/19/15	
Manganese, Total	6010C	1.0 U	mg/Kg	1.0	1	10/19/15 18:01	10/19/15	
Mercury, Total	7471B	0.033 U	mg/Kg	0.033	1	10/19/15 12:16	10/19/15	
Nickel, Total	6010C	4.0 U	mg/Kg	4.0	1	10/19/15 18:01	10/19/15	
Potassium, Total	6010C	200 U	mg/Kg	200	1	10/19/15 18:01	10/19/15	
Selenium, Total	6010C	1.0 U	mg/Kg	1.0	1	10/20/15 09:24	10/19/15	
Silver, Total	6010C	1.0 U	mg/Kg	1.0	1	10/19/15 18:01	10/19/15	
Sodium, Total	6010C	100 U	mg/Kg	100	1	10/19/15 18:01	10/19/15	
Thallium, Total	6010C	1.0 U	mg/Kg	1.0	1	10/19/15 18:01	10/19/15	
Vanadium, Total	6010C	5.0 U	mg/Kg	5.0	1	10/19/15 18:01	10/19/15	
Zinc, Total	6010C	2.0 U	mg/Kg	2.0	1	10/20/15 09:24	10/19/15	

#### Analytical Report

Client: Antea USA Inc Service Request: R1508875

Project: Glens Falls -Queensbury, NY Date Collected: NA

Sample Matrix: Sludge, Solid Date Received: NA

Sample Name: Method Blank Basis: As Received

**Lab Code:** R1508875-MB2

### **Inorganic Parameters**

Analysis

Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Arsenic	6010C	0.50 U	mg/L	0.50	1	10/20/15 10:04	10/19/15	
Barium	6010C	1.0 U	mg/L	1.0	1	10/21/15 02:37	10/19/15	
Cadmium	6010C	0.10 U	mg/L	0.10	1	10/20/15 10:04	10/19/15	
Chromium	6010C	0.10 U	mg/L	0.10	1	10/20/15 10:04	10/19/15	
Lead	6010C	0.10 U	mg/L	0.10	1	10/20/15 10:04	10/19/15	
Mercury	7470A	0.00030 U	mg/L	0.00030	1	10/20/15 14:07	10/20/15	
Selenium	6010C	0.50 U	mg/L	0.50	1	10/20/15 10:04	10/19/15	
Silver	6010C	0.10 U	mg/L	0.10	1	10/20/15 10:04	10/19/15	

#### Analytical Report

Client: Antea USA Inc Service Request: R1508875

Project: Glens Falls -Queensbury, NY

Date Collected: NA

Sample Matrix: Water Date Received: NA

 Sample Name:
 Method Blank
 Units: ug/L

 Lab Code:
 RQ1512883-04
 Basis: NA

#### **Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	10/17/15 11:55	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/17/15 11:55	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/17/15 11:55	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.31	1	10/17/15 11:55	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	10/17/15 11:55	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	10/17/15 11:55	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.82	1	10/17/15 11:55	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.23	1	10/17/15 11:55	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.74	1	10/17/15 11:55	
1,2-Dibromoethane	1.0 U	1.0	0.24	1	10/17/15 11:55	
1,2-Dichlorobenzene	1.0 U	1.0	0.21	1	10/17/15 11:55	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/17/15 11:55	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/17/15 11:55	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	10/17/15 11:55	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	10/17/15 11:55	
1,4-Dioxane	40 U	40	20	1	10/17/15 11:55	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/17/15 11:55	
2-Hexanone	5.0 U	5.0	1.7	1	10/17/15 11:55	
4-Methyl-2-pentanone	5.0 U	5.0	0.67	1	10/17/15 11:55	
Acetone	5.0 U	5.0	1.3	1	10/17/15 11:55	
Benzene	1.0 U	1.0	0.20	1	10/17/15 11:55	
Bromochloromethane	1.0 U	1.0	0.32	1	10/17/15 11:55	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/17/15 11:55	
Bromoform	1.0 U	1.0	0.42	1	10/17/15 11:55	
Bromomethane	1.0 U	1.0	0.29	1	10/17/15 11:55	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/17/15 11:55	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/17/15 11:55	
Chlorobenzene	1.0 U	1.0	0.29	1	10/17/15 11:55	
Chloroethane	1.0 U	1.0	0.24	1	10/17/15 11:55	
Chloroform	1.0 U	1.0	0.25	1	10/17/15 11:55	
Chloromethane	1.0 U	1.0	0.21	1	10/17/15 11:55	
Cyclohexane	1.0 U	1.0	0.25	1	10/17/15 11:55	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/17/15 11:55	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.46	1	10/17/15 11:55	
Dichloromethane (Cr C 12)	1.0 U	1.0	0.60	1	10/17/15 11:55	
Ethylbenzene	1.0 U	1.0	0.20	1	10/17/15 11:55	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	10/17/15 11:55	
Methyl Acetate	2.0 U	2.0	0.43	1	10/17/15 11:55	
Methyl tert-Butyl Ether	1.0 U	1.0	0.43	1	10/17/15 11:55	
Methylcyclohexane	1.0 U	1.0	0.27	1	10/17/15 11:55	
Styrene	1.0 U	1.0	0.20	1	10/17/15 11:55	
Tetrachloroethene (PCE)	1.0 U	1.0	0.20	1	10/17/15 11:55	
Toluene	1.0 U	1.0	0.30	1	10/17/15 11:55	
TOTUCHE	1.0 U	1.0	0.20	1	10/1//13 11.33	

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#### Analytical Report

Client: Antea USA Inc Service Request: R1508875

Project:Glens Falls -Queensbury, NYDate Collected:NASample Matrix:WaterDate Received:NA

Sample Name:Method BlankUnits: ug/LLab Code:RQ1512883-04Basis: NA

#### **Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	10/17/15 11:55	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.20	1	10/17/15 11:55	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/17/15 11:55	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/17/15 11:55	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/17/15 11:55	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/17/15 11:55	
o-Xylene	1.0 U	1.0	0.20	1	10/17/15 11:55	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/17/15 11:55	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/17/15 11:55	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	107	85 - 122	10/17/15 11:55	
Dibromofluoromethane	97	89 - 119	10/17/15 11:55	
Toluene-d8	103	87 - 121	10/17/15 11:55	

#### Analytical Report

Client: Antea USA Inc Service Request: R1508875

Project: Glens Falls -Queensbury, NY Date Collected: NA

Sample Matrix: Sludge, Solid Date Received: NA

Sample Name: Method Blank Units: ug/L

Lab Code: RQ1512574-01 Basis: As Received

#### **TCLP Volatile Organics by GC/MS**

Analysis Method: 8260C Pre-Prep Method: EPA 1311

**Pre-Prep Date:** 10/16/15

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	10/19/15 10:59	
1,2-Dichloroethane	5.0 U	5.0	1	10/19/15 10:59	
2-Butanone (MEK)	10 U	10	1	10/19/15 10:59	
Benzene	5.0 U	5.0	1	10/19/15 10:59	
Carbon Tetrachloride	5.0 U	5.0	1	10/19/15 10:59	
Chlorobenzene	5.0 U	5.0	1	10/19/15 10:59	
Chloroform	5.0 U	5.0	1	10/19/15 10:59	
Tetrachloroethene (PCE)	5.0 U	5.0	1	10/19/15 10:59	
Trichloroethene (TCE)	5.0 U	5.0	1	10/19/15 10:59	
Vinyl Chloride	5.0 U	5.0	1	10/19/15 10:59	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	110	85 - 122	10/19/15 10:59	
Dibromofluoromethane	99	89 - 119	10/19/15 10:59	
Toluene-d8	106	87 - 121	10/19/15 10:59	

#### Analytical Report

Client: Antea USA Inc Service Request: R1508875

Project: Glens Falls -Queensbury, NY Date Collected: NA

Sample Matrix: Sludge, Solid Date Received: NA

Sample Name: Method Blank Units: ug/L

Lab Code: RQ1512730-10 Basis: As Received

#### **TCLP Volatile Organics by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	Dil.	<b>Date Analyzed</b>	Q
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	10/19/15 10:32	
1,2-Dichloroethane	5.0 U	5.0	1	10/19/15 10:32	
2-Butanone (MEK)	10 U	10	1	10/19/15 10:32	
Benzene	5.0 U	5.0	1	10/19/15 10:32	
Carbon Tetrachloride	5.0 U	5.0	1	10/19/15 10:32	
Chlorobenzene	5.0 U	5.0	1	10/19/15 10:32	
Chloroform	5.0 U	5.0	1	10/19/15 10:32	
Tetrachloroethene (PCE)	5.0 U	5.0	1	10/19/15 10:32	
Trichloroethene (TCE)	5.0 U	5.0	1	10/19/15 10:32	
Vinvl Chloride	5.0 U	5.0	1	10/19/15 10:32	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	108	85 - 122	10/19/15 10:32	
Dibromofluoromethane	100	89 - 119	10/19/15 10:32	
Toluene-d8	103	87 - 121	10/19/15 10:32	

#### Analytical Report

Client: Antea USA Inc Service Request: R1508875

Project: Glens Falls -Queensbury, NY Date Collected: NA

Sample Matrix: Sludge, Solid Date Received: NA

Sample Name: Method Blank Units: ug/L

Lab Code: RQ1512577-01 Basis: As Received

#### TCLP Semivolatile Organic Compounds by GC/MS

Analysis Method:8270DPre-Prep Method:EPA 1311Prep Method:EPA 3510CPre-Prep Date:10/16/15

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dichlorobenzene	100 U	100	1	10/21/15 14:36	10/19/15	
2,4,5-Trichlorophenol	100 U	100	1	10/21/15 14:36	10/19/15	
2,4,6-Trichlorophenol	100 U	100	1	10/21/15 14:36	10/19/15	
2,4-Dinitrotoluene	100 U	100	1	10/21/15 14:36	10/19/15	
2-Methylphenol	100 U	100	1	10/21/15 14:36	10/19/15	
3- and 4-Methylphenol Coelution	100 U	100	1	10/21/15 14:36	10/19/15	
Hexachlorobenzene	100 U	100	1	10/21/15 14:36	10/19/15	
Hexachlorobutadiene	100 U	100	1	10/21/15 14:36	10/19/15	
Hexachloroethane	100 U	100	1	10/21/15 14:36	10/19/15	
Nitrobenzene	100 U	100	1	10/21/15 14:36	10/19/15	
Pentachlorophenol (PCP)	500 U	500	1	10/21/15 14:36	10/19/15	
Pyridine	500 U	500	1	10/21/15 14:36	10/19/15	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
2,4,6-Tribromophenol	104	28 - 157	10/21/15 14:36	
2-Fluorobiphenyl	99	39 - 119	10/21/15 14:36	
2-Fluorophenol	59	10 - 105	10/21/15 14:36	
Nitrobenzene-d5	93	37 - 117	10/21/15 14:36	
Phenol-d6	38	10 - 107	10/21/15 14:36	
p-Terphenyl-d14	107	40 - 133	10/21/15 14:36	

#### Analytical Report

Client: Antea USA Inc Service Request: R1508875

Project:Glens Falls -Queensbury, NYDate Collected:NASample Matrix:Sludge, SolidDate Received:NA

Sample Name: Method Blank Units: ug/L

Lab Code: RQ1512615-01 Basis: As Received

#### TCLP Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dichlorobenzene	100 U	100	1	10/21/15 09:28	10/19/15	
2,4,5-Trichlorophenol	100 U	100	1	10/21/15 09:28	10/19/15	
2,4,6-Trichlorophenol	100 U	100	1	10/21/15 09:28	10/19/15	
2,4-Dinitrotoluene	100 U	100	1	10/21/15 09:28	10/19/15	
2-Methylphenol	100 U	100	1	10/21/15 09:28	10/19/15	
3- and 4-Methylphenol Coelution	100 U	100	1	10/21/15 09:28	10/19/15	
Hexachlorobenzene	100 U	100	1	10/21/15 09:28	10/19/15	
Hexachlorobutadiene	100 U	100	1	10/21/15 09:28	10/19/15	
Hexachloroethane	100 U	100	1	10/21/15 09:28	10/19/15	
Nitrobenzene	100 U	100	1	10/21/15 09:28	10/19/15	
Pentachlorophenol (PCP)	500 U	500	1	10/21/15 09:28	10/19/15	
Pyridine	500 U	500	1	10/21/15 09:28	10/19/15	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
2,4,6-Tribromophenol	96	28 - 157	10/21/15 09:28	
2-Fluorobiphenyl	83	39 - 119	10/21/15 09:28	
2-Fluorophenol	50	10 - 105	10/21/15 09:28	
Nitrobenzene-d5	84	37 - 117	10/21/15 09:28	
Phenol-d6	34	10 - 107	10/21/15 09:28	
p-Terphenyl-d14	106	40 - 133	10/21/15 09:28	

QA/QC Report

Client: Antea USA Inc

**Project:** Glens Falls -Queensbury, NY

Sample Matrix: Sludge, Solid

Service Request: R1508875

**Date Analyzed:** 10/16/15 - 10/20/15

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/Kg
Basis:Dry

### Lab Control Sample

R1508875-LCS1

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	672	650	103	80-120
Cyanide, Reactive	9014	4.59	209	2	1-100
Cyanide, Total	9012B	0.984	1.00	98	85-115
Phenolics, Total Recoverable	9066 Modified	0.695	0.80	87	59-128
Sulfide, Reactive	9034 Modified	75.0	80	91	21-118

QA/QC Report

Client: Antea USA Inc

**Project:** Glens Falls -Queensbury, NY

Sample Matrix:

Sludge, Solid

Service Request: R1508875

**Date Analyzed:** 10/19/15

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/Kg
Basis:Dry

Lab Control Sample

R1508875-LCS2

<b>Analyte Name</b>	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	4.00	4.00	100	85-115

#### ALS Group USA, Corp.

#### dba ALS Environmental

QA/QC Report

Client: Antea USA Inc Service Request: R1508875

ProjectGlens Falls -Queensbury, NYDate Collected: 10/15/15Sample Matrix:Sludge, SolidDate Received: 10/16/15

**Date Analyzed:** 10/16/15

Replicate Sample Summary General Chemistry Parameters

Sample Name: WC-1 Units: mg/Kg

**Lab Code:** R1508875-002 **Basis:** Dry

Duplicate Sample R1508875-

Sample 002DUP

Analyte NameAnalysis MethodMRLResultResultAverageRPDRPD LimitPhenolics, Total Recoverable9066 Modified0.580.58 U0.58 UNCNC30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

#### ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

**Client:** Antea USA Inc Service Request: R1508875

**Project** Glens Falls -Queensbury, NY

**Date Collected:** 10/15/15

Sample Matrix: Sludge, Solid

**Date Analyzed:** 10/20/15

**Date Received:** 10/16/15

**Replicate Sample Summary General Chemistry Parameters** 

Sample Name:

WC-1

Units: Percent

Basis: As Received

Lab Code:

R1508875-002

**Duplicate** 

Sample

R1508875-

Sample

**002DUP** 

Analyte Name **Analysis Method** Result MRL Total Solids ALS SOP 17.0 16.7

Result

Average

16.9

RPD Limit

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client: Antea USA Inc

**Project:** Glens Falls -Queensbury, NY

Sample Matrix: Sludge, Solid

Service Request:
Date Collected:

R1508875

Date Received:

10/15/15 10/16/15

Date Analyzed:

10/16/15

Date Extracted:

10/16/15

**Matrix Spike Summary** 

**Phenolics, Total Recoverable** 

WC-1

R1508875-002

**Analysis Method:** 

9066 Modified

**Prep Method:** 

**Sample Name:** 

Lab Code:

Method

Units: Basis:

mg/Kg

Dry

Matrix Spike

R1508875-002MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Phenolics, Total Recoverable	0.58 U	4.16	4.65	90	72-113

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client: Antea USA Inc

**Project:** Glens Falls -Queensbury, NY

Sample Matrix: Sludge, Solid

Service Request: R1508875

**Date Analyzed:** 10/19/15 - 10/20/15

### Lab Control Sample Summary Inorganic Parameters

Units:mg/Kg
Basis:Dry

### **Lab Control Sample**

R1508875-LCS

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	191	200	96	80-120
Antimony, Total	6010C	50.2	50.0	100	80-120
Arsenic, Total	6010C	3.92	4.0	98	80-120
Barium, Total	6010C	208	200	104	80-120
Beryllium, Total	6010C	5.08	5.00	102	80-120
Cadmium, Total	6010C	5.41	5.00	108	80-120
Calcium, Total	6010C	219	200	109	80-120
Chromium, Total	6010C	21.0	20.0	105	80-120
Cobalt, Total	6010C	53.1	50.0	106	80-120
Copper, Total	6010C	25.9	25.0	104	80-120
Iron, Total	6010C	103	100	103	80-120
Lead, Total	6010C	49.5	50.0	99	80-120
Magnesium, Total	6010C	208	200	104	80-120
Manganese, Total	6010C	51.6	50.0	103	80-120
Mercury, Total	7471B	0.171	0.167	102	80-120
Nickel, Total	6010C	53.1	50.0	106	80-120
Potassium, Total	6010C	2030	2000	102	80-120
Selenium, Total	6010C	94.6	101	94	80-120
Silver, Total	6010C	5.55	5.0	111	80-120
Sodium, Total	6010C	2000	2000	100	80-120
Thallium, Total	6010C	194	200	97	80-120
Vanadium, Total	6010C	51.6	50.0	103	80-120
Zinc, Total	6010C	50.3	50.0	101	80-120

QA/QC Report

**Client:** Antea USA Inc

**Project:** Glens Falls -Queensbury, NY

Sludge, Solid **Sample Matrix:** 

Service Request: R1508875

**Date Analyzed:** 10/20/15 - 10/21/15

### **Lab Control Sample Summary Inorganic Parameters**

Units:mg/L

Basis: As Received

#### **Lab Control Sample**

R1508875-LCS

<b>Analyte Name</b>	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	6010C	4.90	5.0	98	80-120
Barium	6010C	1.96	2.0	98	80-120
Cadmium	6010C	1.04	1.00	104	80-120
Chromium	6010C	5.10	5.00	102	80-120
Lead	6010C	5.37	5.00	107	80-120
Mercury	7470A	0.00112	0.00100	112	80-120
Selenium	6010C	0.918	1.00	92	80-120
Silver	6010C	5.21	5.00	104	80-120

### ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc

Project Glens Falls -Queensbury, NY

Sample Matrix: Sludge, Solid

Service Request: R1508875

**Date Collected:** 10/15/15 **Date Received:** 10/16/15

**Date Analyzed:** 10/19/15 - 10/20/15

### Replicate Sample Summary Inorganic Parameters

Sample Name: WC-1

Lab Code:

R1508875-003

Units: mg/Kg

Basis: Dry

### Duplicate Sample

				K1508875-			
	Analysis		Sample	003DUP			
Analyte Name	Method	MRL	Result	Result	Average	RPD	RPD Limit
Aluminum, Total	6010C	57	24900	24900	24900	<1	20
Antimony, Total	6010C	34	49	51	50.0	2	20
Arsenic, Total	6010C	5.7	5.7 U	5.7 U	NC	NC	20
Barium, Total	6010C	11	2040	2000	2020	2	20
Beryllium, Total	6010C	1.7	1.7 U	1.7 U	NC	NC	20
Cadmium, Total	6010C	2.8	61.9	63.5	62.7	3	20
Calcium, Total	6010C	5700	45900	48500	47200	6	20
Chromium, Total	6010C	5.7	2390	2420	2410	1	20
Cobalt, Total	6010C	28	63	63	62.9	<1	20
Copper, Total	6010C	11	131	135	133	3	20
Iron, Total	6010C	570	81200	83100	82200	2	20
Lead, Total	6010C	28	545	553	549	2	20
Magnesium, Total	6010C	570	15200	15400	15300	1	20
Manganese, Total	6010C	5.7	819	851	835	4	20
Nickel, Total	6010C	23	239	242	240	1	20
Potassium, Total	6010C	1100	2700	2700	2710	<1	20
Selenium, Total	6010C	5.7	5.9	5.7 U	NC	NC	20
Silver, Total	6010C	5.7	5.7 U	5.7 U	NC	NC	20
Sodium, Total	6010C	570	730	780	755	7	20
Thallium, Total	6010C	5.7	5.7 U	5.7 U	NC	NC	20
Vanadium, Total	6010C	28	533	534	533	<1	20
Zinc, Total	6010C	11	294	298	296	1	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

**Client:** Antea USA Inc

**Project:** Glens Falls -Queensbury, NY

Sample Matrix: Sludge, Solid Service Request:R1508875

**Date Collected:**10/15/15 **Date Received:** 10/16/15

**Date Analyzed:**10/19/15 - 10/20/15

**Matrix Spike Summary Inorganic Parameters** 

WC-1 Sample Name:

Lab Code:

R1508875-003

Units:mg/Kg Basis:Dry

**Matrix Spike** R1508875-003MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	24900	26000	1190	92 #	75-125
Antimony, Total	6010C	49	273	298	75	75-125
Arsenic, Total	6010C	6.0	14.8	23.8	62 *	75-125
Barium, Total	6010C	2040	3050	1190	85	75-125
Beryllium, Total	6010C	1.8	26.8	29.8	90	75-125
Cadmium, Total	6010C	61.9	92.8	29.8	104	75-125
Calcium, Total	6010C	45900	50000	1200	344 #	75-125
Chromium, Total	6010C	2390	2590	119	165 #	75-125
Cobalt, Total	6010C	63	337	298	92	75-125
Copper, Total	6010C	131	262	149	88	75-125
Iron, Total	6010C	81200	84900	600	625 #	75-125
Lead, Total	6010C	545	912	298	123	75-125
Magnesium, Total	6010C	15200	16800	1190	136#	75-125
Manganese, Total	6010C	819	1070	298	85	75-125
Nickel, Total	6010C	239	509	298	91	75-125
Potassium, Total	6010C	2700	12800	11900	85	75-125
Selenium, Total	6010C	5.9	496	601	82	75-125
Silver, Total	6010C	6.0	30.3	29.8	102	75-125
Sodium, Total	6010C	730	11100	11900	87	75-125
Thallium, Total	6010C	6.0	1000	1190	84	75-125
Vanadium, Total	6010C	533	816	298	95	75-125
Zinc, Total	6010C	294	538	298	82	75-125

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client: Antea USA Inc

**Project:** Glens Falls -Queensbury, NY

**Sample Matrix:** Water

### Lab Control Sample Summary Volatile Organic Compounds by GC/MS

Units:ug/L Basis:NA

Service Request: R1508875

**Date Analyzed:** 10/17/15

### **Lab Control Sample**

RQ1512883-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	19.3	20.0	96	74-120
1,1,2,2-Tetrachloroethane	8260C	20.7	20.0	104	78-122
1,1,2-Trichloroethane	8260C	18.9	20.0	94	82-118
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	18.6	20.0	93	75-124
1,1-Dichloroethane (1,1-DCA)	8260C	21.6	20.0	108	78-117
1,1-Dichloroethene (1,1-DCE)	8260C	21.0	20.0	105	74-135
1,2,3-Trichlorobenzene	8260C	20.2	20.0	101	56-164
1,2,4-Trichlorobenzene	8260C	19.1	20.0	96	68-147
1,2-Dibromo-3-chloropropane (DBCP)	8260C	17.1	20.0	85	55-149
1,2-Dibromoethane	8260C	18.6	20.0	93	81-125
1,2-Dichlorobenzene	8260C	18.6	20.0	93	80-119
1,2-Dichloroethane	8260C	19.5	20.0	97	71-127
1,2-Dichloropropane	8260C	20.1	20.0	100	80-119
1,3-Dichlorobenzene	8260C	19.1	20.0	95	79-121
1,4-Dichlorobenzene	8260C	18.3	20.0	92	79-119
1,4-Dioxane	8260C	404	400	101	69-151
2-Butanone (MEK)	8260C	23.7	20.0	119	61-137
2-Hexanone	8260C	23.1	20.0	115	63-124
4-Methyl-2-pentanone	8260C	22.5	20.0	113	66-124
Acetone	8260C	27.6	20.0	138	40-161
Benzene	8260C	20.1	20.0	101	76-118
Bromochloromethane	8260C	19.0	20.0	95	81-126
Bromodichloromethane	8260C	19.1	20.0	95	78-126
Bromoform	8260C	16.7	20.0	83	71-136
Bromomethane	8260C	21.7	20.0	108	42-166
Carbon Disulfide	8260C	19.0	20.0	95	65-127
Carbon Tetrachloride	8260C	19.8	20.0	99	68-125
Chlorobenzene	8260C	18.7	20.0	94	80-121
Chloroethane	8260C	20.2	20.0	101	70-127
Chloroform	8260C	20.3	20.0	102	76-120
Chloromethane	8260C	25.4	20.0	127	69-145
Cyclohexane	8260C	21.9	20.0	110	63-121
Dibromochloromethane	8260C	17.4	20.0	87	77-128
Drinted 12/10/2015 5:38:23 DM			Superget	Pafaranaa: 15 0000	0250650 ray 00

Printed 12/10/2015 5:38:23 PM Superset Reference:15-0000350650 rev 00

QA/QC Report

Client: Antea USA Inc

**Project:** Glens Falls -Queensbury, NY

**Sample Matrix:** Water

### Lab Control Sample Summary Volatile Organic Compounds by GC/MS

Units:ug/L Basis:NA

Service Request: R1508875

**Date Analyzed:** 10/17/15

#### **Lab Control Sample**

RQ1512883-03

A call to Name	Analytical	D14	C. T. A	0/ D	0/ D I ' '4
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	26.4	20.0	132	65-152
Dichloromethane	8260C	20.6	20.0	103	73-122
Ethylbenzene	8260C	19.1	20.0	95	76-120
Isopropylbenzene (Cumene)	8260C	19.5	20.0	97	78-126
Methyl Acetate	8260C	21.7	20.0	108	62-131
Methyl tert-Butyl Ether	8260C	20.0	20.0	100	78-125
Methylcyclohexane	8260C	23.1	20.0	115	51-129
Styrene	8260C	19.9	20.0	99	80-124
Tetrachloroethene (PCE)	8260C	18.2	20.0	91	78-124
Toluene	8260C	19.0	20.0	95	77-120
Trichloroethene (TCE)	8260C	18.7	20.0	94	78-123
Trichlorofluoromethane (CFC 11)	8260C	20.1	20.0	100	68-126
Vinyl Chloride	8260C	22.0	20.0	110	69-133
cis-1,2-Dichloroethene	8260C	20.7	20.0	103	80-121
cis-1,3-Dichloropropene	8260C	19.6	20.0	98	74-126
m,p-Xylenes	8260C	38.6	40.0	97	78-123
o-Xylene	8260C	19.1	20.0	95	80-120
trans-1,2-Dichloroethene	8260C	21.4	20.0	107	80-120
trans-1,3-Dichloropropene	8260C	19.2	20.0	96	67-135

QA/QC Report

Client: Antea USA Inc

**Project:** Glens Falls -Queensbury, NY

Sample Matrix: Sludge, Solid

Lab Control Sample Summary
TCLP Volatile Organics by GC/MS

Units:ug/L

Service Request: R1508875

**Date Analyzed:** 10/19/15

Basis: As Received

#### **Lab Control Sample**

RQ1512730-08

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
1,1-Dichloroethene (1,1-DCE)	8260C	20.9	20.0	104	74-135
1,2-Dichloroethane	8260C	19.3	20.0	96	71-127
2-Butanone (MEK)	8260C	20.5	20.0	103	61-137
Benzene	8260C	20.0	20.0	100	76-118
Carbon Tetrachloride	8260C	19.9	20.0	99	68-125
Chlorobenzene	8260C	18.8	20.0	94	80-121
Chloroform	8260C	20.3	20.0	101	76-120
Tetrachloroethene (PCE)	8260C	19.2	20.0	96	78-124
Trichloroethene (TCE)	8260C	19.1	20.0	96	78-123
Vinyl Chloride	8260C	21.8	20.0	109	69-133

QA/QC Report

Client: Antea USA Inc

Project: Glens Falls -Queensbury, NY Date Analyzed: 10/21/15

Sample Matrix: Sludge, Solid

# Duplicate Lab Control Sample Summary TCLP Semivolatile Organic Compounds by GC/MS

Units:ug/L

Service Request: R1508875

Basis: As Received

**Lab Control Sample** 

**Duplicate Lab Control Sample** 

RQ1512615-02

RQ1512615-03

Analyte Name	Analytica l Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	8270D	575	1000	57	632	1000	63	10-124	9	30
2,4,5-Trichlorophenol	8270D	991	1000	99	1070	1000	107	62-117	7	30
2,4,6-Trichlorophenol	8270D	881	1000	88	994	1000	99	62-115	12	30
2,4-Dinitrotoluene	8270D	932	1000	93	1030	1000	103	69-122	10	30
2-Methylphenol	8270D	792	1000	79	858	1000	86	59-104	8	30
3- and 4-Methylphenol Coelution	8270D	1560	2000	78	1710	2000	85	50-111	9	30
Hexachlorobenzene	8270D	929	1000	93	1010	1000	101	76-119	8	30
Hexachlorobutadiene	8270D	512	1000	51	548	1000	55	16-95	7	30
Hexachloroethane	8270D	599	1000	60	627	1000	63	15-92	5	30
Nitrobenzene	8270D	866	1000	87	942	1000	94	51-113	8	30
Pentachlorophenol (PCP)	8270D	761	1000	76	845	1000	84	56-146	10	30
Pyridine	8270D	418	1000	42	513	1000	51	10-123	20	30

Distribution: White - Lab Copy; Yellow - Return to Originator



### Cooler Receipt and Preservation Check Form

Project/Client_ Sateur						_Folder	Nui	mber_	<u> 215 -</u>	8875	<u>.</u>			
Cooler receive	d on 10/16	15		by:	0		COU	RIER:	ALS	UPS <	FEDEX	VELO	CITY CI	JEN'
1 Were Cus								Perch	lorate	samples	nave requi	red head	space?	Y
2 Custody papers properly completed (ink, signed)? Y N								Did V	OA via	als, Alk,o	r Sulfide h	ave sig*	bubbles	? Y
3 Did all bottles arrive in good condition (unbroken)? N							6	6 Where did the bottles originate? ALS/ROC						
								Enc	ore 50	35set				
4 0.10.0.0	2.,						Ĺ							
8. Temperature	Readings	Dat	te:_/0	/14/18	Time:_	0927	<b>,</b>	ID:	(R#3	) IR#5	]	From: T	emp Blan	k 🤇
Observed Te	mp (°C)		3,	5										$\perp$
Correction Fa	actor (°C)													
Corrected Te	mp (°C)		3,5	-0										
Within 0-6°C	?		(8)	N	Y N	1	Y	N	Y	N	Y N	1	Y N	
If <0°C, were	samples froz	en?	Y	N	YN	1	Y	N	Y	N	YN	1	Y N	
If out of T	emperature,	note p	ackin	g/ice co	ndition:			Ice mel	ted	Poorl	y Packed		Same D	ay R
&Client A	pproval to R	un Sai	nples:		Stand	ing Appr	oval	Clien	t aware	at drop-	off Clie	nt notifie	d by:	
All complex	hald in atomaa	0 10001	ioni			by		ิ	on	12/1	/_ at	2 97	1	
All samples 5035 sample				n:	R-OUR	by -	4		on –	10//9	at	097	<u>. 7</u>	
			12											
PC Second	ary Review: _	$\cup$ L												
The last the	A THE PARTY OF THE PARTY OF THE PARTY.	**********	0/1	// 5		4.0	10	(aller except little	y: <b>-</b> M	\ <i>0</i>	and the southern section of the sect	single-stressing.	word product the second production	Miles Park
	akdown: Dat				Time:_	10: 7		b	y:	M	3	NO		
<ol> <li>Were all bottle labels complete (i.e. analysis, preservation,</li> <li>Did all bottle labels and tags agree with custody papers?</li> </ol>								C.):		8	<b>S</b>	NO		
3. Were correct containers used for the tests indicated?							'			Ø	ĒŠ	NO		
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated								ted	$\Theta$					
	y discrepanci													
pН	Reagent	Yes	No	Lot R	eceived	Exp	S	ample I	D	Vol.	Lot Add	led	Final	7 Y
			ļ							Added			pН	Si
≥12	NaOH		<u> </u>				┷							٦,,
≤2	HNO <sub>3</sub>		<u> </u>				<del>_</del>							$\neg$
≤2	H <sub>2</sub> SO <sub>4</sub>						$\perp$							┛"
<4	NaHSO <sub>4</sub>						$\perp$							p
Residual	For CN				ontact PM t									T
Chlorine	Phenol				a <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN		1							li
(-)	and 522			ascorb	ic (phenol)									
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-											P
	ZnAcetate	-	-								analysis			Α
	HCl	**	**	411	4070		recorded by VOAs on a separate worksheet					t		
Bottle lot r	umbers: 11	1813	~ i	BNS	1 3	6131	<b>%</b>	18 11	8					

PC Secondary Review: <u>VNB</u> 10|18|15

Other Comments:

\*significant air bubbles: VOA  $\geq$  5-6 mm : WC  $\geq$ 1 in. diame

9/24/15

P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r9.doc



Service Request No:R1509359

Mr. Mark Schumacher Antea USA Inc 5788 Widewaters Pkwy Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr.Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory October 31, 2015 For your reference, these analyses have been assigned our service request number **R1509359**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

Akeye

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes

**Project Manager** 

#### **ALS Environmental**

Client: Antea
Service Request No.: R1509359
Project: Glens Falls
Date Received: 10/31/15
Sample Matrix: Water

#### CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

#### Sample Receipt

Water samples were received for analysis at ALS Environmental in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Site QC was not requested however performed on CHIPS-1. Accuracy and precision were acceptable with the exception of various Volatile compounds. Outlying MS recoveries and RPDs have been flagged with an "\*". Associated LCS recoveries were acceptable.

All remaining QC criteria were met.

Client: Antea USA Inc Service Request:R1509359

**Project:** Queensbury, NY/Glens Falls -Total Metals

#### **SAMPLE CROSS-REFERENCE**

 SAMPLE #
 CLIENT SAMPLE ID
 DATE
 TIME

 R1509359-001
 CHIPS-1
 10/30/2015
 1200

Printed 11/11/2015 1:11:11 PM Sample Summary



## **REPORT QUALIFIERS AND DEFINITIONS**

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits. Under the õNotesö column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an õimmediateö hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)

  The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



#### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

<sup>&</sup>lt;sup>1</sup> Analyses were performed according to our laboratory¢s NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <a href="http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads">http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads</a>



#### **INORGANIC PREPARATION METHODS**

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

## Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid	9030B
Soluble	
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual	SM 4500-CN-G
Cyanide	
SM 4500-CN-E WAD	SM 4500-CN-I
Cyanide	

#### Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation
	Method
6010C	3050B
6020A	3050B
6010C TCLP (1311)	3005A/3010A
extract	
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/	DI extraction
353.2/ SM 2320B/ SM	
5210B/ 9056A Anions	

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Analytical Report

Client: Antea USA Inc Service Request: R1509359

Project: Queensbury, NY/Glens Falls -Total Metals Date Collected: 10/30/15 12:00

Sample Matrix: Soil Date Received: 10/31/15 10:55

Sample Name: CHIPS-1 Basis: As Received

**Lab Code:** R1509359-001

## **General Chemistry Parameters**

Analysis

Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	72.9	Percent	-	1	11/04/15 13:05	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509359

Project: Queensbury, NY/Glens Falls -Total Metals Date Collected: 10/30/15 12:00

Sample Matrix: Soil Date Received: 10/31/15 10:55

Sample Name: CHIPS-1 Basis: Dry

**Lab Code:** R1509359-001

Analysis

#### **Inorganic Parameters**

	Allalysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Aluminum, Total	6010C	1120	mg/Kg	13	1	11/04/15 11:11	11/02/15	
Antimony, Total	6010C	43.2	mg/Kg	7.9	1	11/03/15 23:35	11/02/15	
Arsenic, Total	6010C	1.6	mg/Kg	1.3	1	11/03/15 23:35	11/02/15	
Barium, Total	6010C	476	mg/Kg	2.6	1	11/03/15 23:35	11/02/15	
Beryllium, Total	6010C	0.40 U	mg/Kg	0.40	1	11/03/15 23:35	11/02/15	
Cadmium, Total	6010C	22.7	mg/Kg	0.66	1	11/03/15 23:35	11/02/15	
Calcium, Total	6010C	16500	mg/Kg	2600	20	11/03/15 17:14	11/02/15	
Chromium, Total	6010C	489	mg/Kg	1.3	1	11/03/15 23:35	11/02/15	
Cobalt, Total	6010C	61.3	mg/Kg	6.6	1	11/03/15 23:35	11/02/15	
Copper, Total	6010C	152	mg/Kg	2.6	1	11/03/15 23:35	11/02/15	
Iron, Total	6010C	133000	mg/Kg	260	20	11/03/15 17:14	11/02/15	
Lead, Total	6010C	1050	mg/Kg	6.6	1	11/03/15 23:35	11/02/15	
Magnesium, Total	6010C	190	mg/Kg	130	1	11/03/15 23:35	11/02/15	
Manganese, Total	6010C	479	mg/Kg	1.3	1	11/03/15 23:35	11/02/15	
Mercury, Total	7471B	6.30	mg/Kg	0.43	10	11/04/15 10:00	11/03/15	
Nickel, Total	6010C	92.6	mg/Kg	5.3	1	11/03/15 23:35	11/02/15	
Potassium, Total	6010C	260 U	mg/Kg	260	1	11/04/15 11:11	11/02/15	
Selenium, Total	6010C	8.5	mg/Kg	1.3	1	11/04/15 11:27	11/02/15	
Silver, Total	6010C	4.0 U	mg/Kg	4.0	3	11/04/15 11:21	11/02/15	
Sodium, Total	6010C	210	mg/Kg	130	1	11/04/15 11:11	11/02/15	
Thallium, Total	6010C	4.0 U	mg/Kg	4.0	3	11/04/15 11:21	11/02/15	
Vanadium, Total	6010C	462	mg/Kg	6.6	1	11/03/15 23:35	11/02/15	
Zinc, Total	6010C	169	mg/Kg	2.6	1	11/03/15 23:35	11/02/15	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509359

Project: Queensbury, NY/Glens Falls -Total Metals Date Collected: 10/30/15 12:00

Sample Matrix: Soil Date Received: 10/31/15 10:55

 Sample Name:
 CHIPS-1
 Units: ug/Kg

 Lab Code:
 R1509359-001
 Basis: Dry

#### **Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	15 U	15	2.21	11/03/15 12:27	
1,1,2,2-Tetrachloroethane	15 U	15	2.21	11/03/15 12:27	
1,1,2-Trichloroethane	15 U	15	2.21	11/03/15 12:27	
1,1,2-Trichloro-1,2,2-trifluoroethane	15 U	15	2.21	11/03/15 12:27	
1,1-Dichloroethane (1,1-DCA)	15 U	15	2.21	11/03/15 12:27	
1,1-Dichloroethene (1,1-DCE)	15 U	15	2.21	11/03/15 12:27	
1,2,3-Trichlorobenzene	15 U	15	2.21	11/03/15 12:27	
1,2,4-Trichlorobenzene	15 U	15	2.21	11/03/15 12:27	
1,2-Dibromo-3-chloropropane (DBCP)	15 U	15	2.21	11/03/15 12:27	
1,2-Dibromoethane	15 U	15	2.21	11/03/15 12:27	
1,2-Dichlorobenzene	15 U	15	2.21	11/03/15 12:27	
1,2-Dichloroethane	15 U	15	2.21	11/03/15 12:27	
1,2-Dichloropropane	15 U	15	2.21	11/03/15 12:27	
1,3-Dichlorobenzene	15 U	15	2.21	11/03/15 12:27	
1,4-Dichlorobenzene	15 U	15	2.21	11/03/15 12:27	
1,4-Dioxane	300 U	300	2.21	11/03/15 12:27	
2-Butanone (MEK)	150	15	2.21	11/03/15 12:27	
2-Hexanone	180	15	2.21	11/03/15 12:27	
4-Methyl-2-pentanone	24	15	2.21	11/03/15 12:27	
Acetone	160	15	2.21	11/03/15 12:27	
Benzene	29	15	2.21	11/03/15 12:27	
Bromochloromethane	15 U	15	2.21	11/03/15 12:27	
Bromodichloromethane	15 U	15	2.21	11/03/15 12:27	
Bromoform	15 U	15	2.21	11/03/15 12:27	
	15 U	15	2.21	11/03/15 12:27	
Bromomethane Carbon Disulfide	15 U	15	2.21	11/03/15 12:27	
Carbon Tetrachloride	15 U	15	2.21	11/03/15 12:27	
	15 U	15	2.21	11/03/15 12:27	
Chlorobenzene	15 U	15	2.21	11/03/15 12:27	
Chloroethane	15 U 15 U	15	2.21	11/03/15 12:27	
Chloroform	15 U	15	2.21	11/03/15 12:27	
Chloromethane					
Cyclohexane	15 U	15	2.21	11/03/15 12:27	
Dibromochloromethane	15 U	15	2.21	11/03/15 12:27	
Dichlorodifluoromethane (CFC 12)	15 U	15	2.21	11/03/15 12:27	
Dichloromethane	15 U	15	2.21	11/03/15 12:27	
Ethylbenzene	270	15	2.21	11/03/15 12:27	
Isopropylbenzene (Cumene)	15 U	15	2.21	11/03/15 12:27	
Methyl Acetate	15 U	15	2.21	11/03/15 12:27	
Methyl tert-Butyl Ether	15 U	15	2.21	11/03/15 12:27	
Methylcyclohexane	15 U	15	2.21	11/03/15 12:27	
Styrene	590	15	2.21	11/03/15 12:27	
Tetrachloroethene (PCE)	15 U	15	2.21	11/03/15 12:27	
Toluene	340	15	2.21	11/03/15 12:27	

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#### Analytical Report

Client: Antea USA Inc Service Request: R1509359

Project: Queensbury, NY/Glens Falls -Total Metals Date Collected: 10/30/15 12:00

Sample Matrix: Soil Date Received: 10/31/15 10:55

 Sample Name:
 CHIPS-1
 Units: ug/Kg

 Lab Code:
 R1509359-001
 Basis: Dry

#### **Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	15 U	15	2.21	11/03/15 12:27	
Trichlorofluoromethane (CFC 11)	15 U	15	2.21	11/03/15 12:27	
Vinyl Chloride	15 U	15	2.21	11/03/15 12:27	
cis-1,2-Dichloroethene	15 U	15	2.21	11/03/15 12:27	
cis-1,3-Dichloropropene	15 U	15	2.21	11/03/15 12:27	
m,p-Xylenes	550	30	2.21	11/03/15 12:27	
o-Xylene	220	15	2.21	11/03/15 12:27	
trans-1,2-Dichloroethene	15 U	15	2.21	11/03/15 12:27	
trans-1,3-Dichloropropene	15 U	15	2.21	11/03/15 12:27	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	63	51 - 136	11/03/15 12:27	
Dibromofluoromethane	89	63 - 138	11/03/15 12:27	
Toluene-d8	87	66 - 138	11/03/15 12:27	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509359

Project:Queensbury, NY/Glens Falls -Total MetalsDate Collected:NASample Matrix:SoilDate Received:NA

Sample Name: Method Blank Basis: Dry

**Lab Code:** R1509359-MB

## **Inorganic Parameters**

	Analysis							
<b>Analyte Name</b>	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Aluminum, Total	6010C	10 U	mg/Kg	10	1	11/04/15 10:48	11/02/15	
Antimony, Total	6010C	6.0 U	mg/Kg	6.0	1	11/03/15 21:27	11/02/15	
Arsenic, Total	6010C	1.0 U	mg/Kg	1.0	1	11/03/15 21:27	11/02/15	
Barium, Total	6010C	2.0 U	mg/Kg	2.0	1	11/03/15 21:27	11/02/15	
Beryllium, Total	6010C	0.30 U	mg/Kg	0.30	1	11/03/15 21:27	11/02/15	
Cadmium, Total	6010C	0.50 U	mg/Kg	0.50	1	11/03/15 21:27	11/02/15	
Calcium, Total	6010C	100 U	mg/Kg	100	1	11/03/15 16:51	11/02/15	
Chromium, Total	6010C	1.0 U	mg/Kg	1.0	1	11/03/15 21:27	11/02/15	
Cobalt, Total	6010C	5.0 U	mg/Kg	5.0	1	11/03/15 21:27	11/02/15	
Copper, Total	6010C	2.0 U	mg/Kg	2.0	1	11/03/15 21:27	11/02/15	
Iron, Total	6010C	10 U	mg/Kg	10	1	11/03/15 16:51	11/02/15	
Lead, Total	6010C	5.0 U	mg/Kg	5.0	1	11/03/15 21:27	11/02/15	
Magnesium, Total	6010C	100 U	mg/Kg	100	1	11/03/15 21:27	11/02/15	
Manganese, Total	6010C	1.0 U	mg/Kg	1.0	1	11/03/15 21:27	11/02/15	
Mercury, Total	7471B	0.033 U	mg/Kg	0.033	1	11/04/15 09:17	11/03/15	
Nickel, Total	6010C	4.0 U	mg/Kg	4.0	1	11/03/15 21:27	11/02/15	
Potassium, Total	6010C	200 U	mg/Kg	200	1	11/04/15 10:48	11/02/15	
Selenium, Total	6010C	1.0 U	mg/Kg	1.0	1	11/03/15 21:27	11/02/15	
Silver, Total	6010C	1.0 U	mg/Kg	1.0	1	11/03/15 21:27	11/02/15	
Sodium, Total	6010C	100 U	mg/Kg	100	1	11/04/15 10:48	11/02/15	
Thallium, Total	6010C	1.0 U	mg/Kg	1.0	1	11/03/15 21:27	11/02/15	
Vanadium, Total	6010C	5.0 U	mg/Kg	5.0	1	11/03/15 21:27	11/02/15	
Zinc, Total	6010C	2.0 U	mg/Kg	2.0	1	11/03/15 21:27	11/02/15	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509359

Project: Queensbury, NY/Glens Falls -Total Metals Date Collected: NA

Sample Matrix: Soil Date Received: NA

Sample Name:Method BlankUnits: ug/KgLab Code:RQ1513639-04Basis: Dry

#### **Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	11/03/15 10:32	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	11/03/15 10:32	
1,1,2-Trichloroethane	5.0 U	5.0	1	11/03/15 10:32	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	11/03/15 10:32	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	11/03/15 10:32	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	11/03/15 10:32	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	11/03/15 10:32	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	11/03/15 10:32	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	11/03/15 10:32	
1,2-Dibromoethane	5.0 U	5.0	1	11/03/15 10:32	
1,2-Dichlorobenzene	5.0 U	5.0	1	11/03/15 10:32	
1,2-Dichloroethane	5.0 U	5.0	1	11/03/15 10:32	
1,2-Dichloropropane	5.0 U	5.0	1	11/03/15 10:32	
1,3-Dichlorobenzene	5.0 U	5.0	1	11/03/15 10:32	
1,4-Dichlorobenzene	5.0 U	5.0	1	11/03/15 10:32	
1,4-Dioxane	100 U	100	1	11/03/15 10:32	
2-Butanone (MEK)	5.0 U	5.0	1	11/03/15 10:32	
2-Hexanone	5.0 U	5.0	1	11/03/15 10:32	
4-Methyl-2-pentanone	5.0 U	5.0	1	11/03/15 10:32	
Acetone	5.0 U	5.0	1	11/03/15 10:32	
Benzene	5.0 U	5.0	1	11/03/15 10:32	
Bromochloromethane	5.0 U	5.0	1	11/03/15 10:32	
Bromodichloromethane	5.0 U	5.0	1	11/03/15 10:32	
	5.0 U	5.0	1	11/03/15 10:32	
Bromoform	5.0 U	5.0	1	11/03/15 10:32	
Bromomethane Carbon Disulfide	5.0 U	5.0	1	11/03/15 10:32	
	5.0 U	5.0	1	11/03/15 10:32	
Carbon Tetrachloride	5.0 U	5.0	1	11/03/15 10:32	
Chlorobenzene					
Chloroethane	5.0 U	5.0 5.0	1	11/03/15 10:32	
Chloroform	5.0 U		1	11/03/15 10:32	
Chloromethane	5.0 U	5.0	1	11/03/15 10:32	
Cyclohexane	5.0 U	5.0	1	11/03/15 10:32	
Dibromochloromethane	5.0 U	5.0	1	11/03/15 10:32	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	11/03/15 10:32	
Dichloromethane	5.0 U	5.0	1	11/03/15 10:32	
Ethylbenzene	5.0 U	5.0	1	11/03/15 10:32	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	11/03/15 10:32	
Methyl Acetate	5.0 U	5.0	1	11/03/15 10:32	
Methyl tert-Butyl Ether	5.0 U	5.0	1	11/03/15 10:32	
Methylcyclohexane	5.0 U	5.0	1	11/03/15 10:32	
Styrene	5.0 U	5.0	1	11/03/15 10:32	
Tetrachloroethene (PCE)	5.0 U	5.0	1	11/03/15 10:32	
Toluene	5.0 U	5.0	1	11/03/15 10:32	

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#### Analytical Report

Client: Antea USA Inc Service Request: R1509359

Project:Queensbury, NY/Glens Falls -Total MetalsDate Collected:NASample Matrix:SoilDate Received:NA

Sample Name:Method BlankUnits: ug/KgLab Code:RQ1513639-04Basis: Dry

#### **Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	11/03/15 10:32	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	11/03/15 10:32	
Vinyl Chloride	5.0 U	5.0	1	11/03/15 10:32	
cis-1,2-Dichloroethene	5.0 U	5.0	1	11/03/15 10:32	
cis-1,3-Dichloropropene	5.0 U	5.0	1	11/03/15 10:32	
m,p-Xylenes	10 U	10	1	11/03/15 10:32	
o-Xylene	5.0 U	5.0	1	11/03/15 10:32	
trans-1,2-Dichloroethene	5.0 U	5.0	1	11/03/15 10:32	
trans-1,3-Dichloropropene	5.0 U	5.0	1	11/03/15 10:32	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	85	51 - 136	11/03/15 10:32	
Dibromofluoromethane	85	63 - 138	11/03/15 10:32	
Toluene-d8	85	66 - 138	11/03/15 10:32	

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls -Total Metals

Sample Matrix: Soil

Service Request: R1509359

**Date Analyzed:** 11/03/15 - 11/04/15

## Lab Control Sample Summary Inorganic Parameters

Units:mg/Kg
Basis:Dry

## **Lab Control Sample**

R1509359-LCS

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	189	200	95	80-120
Antimony, Total	6010C	41.6	50.0	83	80-120
Arsenic, Total	6010C	4.05	4.0	101	80-120
Barium, Total	6010C	202	200	101	80-120
Beryllium, Total	6010C	4.59	5.00	92	80-120
Cadmium, Total	6010C	4.75	5.00	95	80-120
Calcium, Total	6010C	176	200	88	80-120
Chromium, Total	6010C	20.7	20.0	104	80-120
Cobalt, Total	6010C	48.3	50.0	97	80-120
Copper, Total	6010C	24.6	25.0	98	80-120
Iron, Total	6010C	103	100	103	80-120
Lead, Total	6010C	48.2	50.0	96	80-120
Magnesium, Total	6010C	197	200	99	80-120
Manganese, Total	6010C	50.1	50.0	100	80-120
Mercury, Total	7471B	0.166	0.167	100	80-120
Nickel, Total	6010C	50.0	50.0	100	80-120
Potassium, Total	6010C	1910	2000	95	80-120
Selenium, Total	6010C	89.9	101	89	80-120
Silver, Total	6010C	4.65	5.0	93	80-120
Sodium, Total	6010C	1870	2000	93	80-120
Thallium, Total	6010C	184	200	92	80-120
Vanadium, Total	6010C	47.0	50.0	94	80-120
Zinc, Total	6010C	49.7	50.0	99	80-120

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls -Total Metals

Sample Matrix: Soil

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## Lab Control Sample Summary Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis:Dry

Service Request: R1509359

**Date Analyzed:** 11/03/15

## **Lab Control Sample**

RQ1513639-03

Analytical

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.1	20.0	90	40-140
1,1,2,2-Tetrachloroethane	8260C 8260C	15.1	20.0	90 76	40-140
	8260C 8260C	15.6	20.0	78	40-140
1,1,2-Trichloroethane	8260C 8260C	18.8	20.0	78 94	40-140
1,1,2-Trichloro-1,2,2-trifluoroethane					
1,1-Dichloroethane (1,1-DCA)	8260C	18.9	20.0	94	40-140
1,1-Dichloroethene (1,1-DCE)	8260C	20.9	20.0	105	40-140
1,2,3-Trichlorobenzene	8260C	18.8	20.0	94	40-140
1,2,4-Trichlorobenzene	8260C	18.9	20.0	94	40-140
1,2-Dibromo-3-chloropropane (DBCP)	8260C	15.8	20.0	79	40-140
1,2-Dibromoethane	8260C	17.6	20.0	88	40-140
1,2-Dichlorobenzene	8260C	19.5	20.0	98	40-140
1,2-Dichloroethane	8260C	18.2	20.0	91	40-140
1,2-Dichloropropane	8260C	18.7	20.0	93	40-140
1,3-Dichlorobenzene	8260C	19.8	20.0	99	40-140
1,4-Dichlorobenzene	8260C	19.8	20.0	99	40-140
1,4-Dioxane	8260C	331	400	83	40-140
2-Butanone (MEK)	8260C	17.4	20.0	87	40-140
2-Hexanone	8260C	15.2	20.0	76	40-140
4-Methyl-2-pentanone	8260C	15.8	20.0	79	40-140
Acetone	8260C	20.1	20.0	100	40-140
Benzene	8260C	19.5	20.0	98	40-140
Bromochloromethane	8260C	18.3	20.0	92	40-140
Bromodichloromethane	8260C	18.1	20.0	91	40-140
Bromoform	8260C	16.6	20.0	83	40-140
Bromomethane	8260C	22.2	20.0	111	40-140
Carbon Disulfide	8260C	18.1	20.0	91	40-140
Carbon Tetrachloride	8260C	19.2	20.0	96	40-140
Chlorobenzene	8260C	19.7	20.0	98	40-140
Chloroethane	8260C	20.0	20.0	100	40-140
Chloroform	8260C	18.8	20.0	94	40-140
Chloromethane	8260C	19.6	20.0	98	40-140
Cyclohexane	8260C	18.6	20.0	93	40-140
Dibromochloromethane	8260C	17.5	20.0	88	40-140
D: 4 1 11/11/2015 1 11 20 DM			g .	15 0000	252042 00

Superset Reference: 15-0000352942 rev 00

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls -Total Metals

Sample Matrix: Soil

## Lab Control Sample Summary Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis:Dry

Service Request: R1509359

**Date Analyzed:** 11/03/15

#### **Lab Control Sample**

RQ1513639-03

	Analytical	_			
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	24.3	20.0	121	40-140
Dichloromethane	8260C	18.1	20.0	90	40-140
Ethylbenzene	8260C	19.8	20.0	99	40-140
Isopropylbenzene (Cumene)	8260C	20.5	20.0	102	40-140
Methyl Acetate	8260C	16.3	20.0	81	40-140
Methyl tert-Butyl Ether	8260C	16.6	20.0	83	40-140
Methylcyclohexane	8260C	19.3	20.0	96	40-140
Styrene	8260C	19.6	20.0	98	40-140
Tetrachloroethene (PCE)	8260C	21.4	20.0	107	40-140
Toluene	8260C	17.9	20.0	89	40-140
Trichloroethene (TCE)	8260C	20.7	20.0	103	40-140
Trichlorofluoromethane (CFC 11)	8260C	19.7	20.0	98	40-140
Vinyl Chloride	8260C	19.9	20.0	100	40-140
cis-1,2-Dichloroethene	8260C	19.1	20.0	95	40-140
cis-1,3-Dichloropropene	8260C	17.6	20.0	88	40-140
m,p-Xylenes	8260C	39.2	40.0	98	40-140
o-Xylene	8260C	19.6	20.0	98	40-140
trans-1,2-Dichloroethene	8260C	19.7	20.0	99	40-140
trans-1,3-Dichloropropene	8260C	14.3	20.0	72	40-140

QA/QC Report

**Client:** Antea USA Inc

R1509359

**Sample Matrix:** 

**Project:** 

Soil

Queensbury, NY/Glens Falls -Total Metals

**Date Collected:** 

10/30/15

**Date Received:** 

**Service Request:** 

10/31/15

**Date Analyzed: Date Extracted:** 

11/3/15 NA

## **Duplicate Matrix Spike Summary** Volatile Organic Compounds by GC/MS

**Sample Name:** CHIPS-1 **Units: Basis:**  ug/Kg

Lab Code:

R1509359-001

8260C

Dry

**Analysis Method: Prep Method:** EPA 5030C

> **Matrix Spike** RO1513639-05

**Duplicate Matrix Spike** 

RO1513639-06

		RQ1513	3639-05		RQ	01513639-06	1			
	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
1,1,1-Trichloroethane (TCA)	15 U	108	150	72	108	152	71	51-132	1	30
1,1,2,2-Tetrachloroethane	15 U	163	150	109	154	152	102	53-134	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	15 U	107	150	72	106	152	70	45-136	3	30
1,1,2-Trichloroethane	15 U	102	150	68	103	152	68	62-126	<1	30
1,1-Dichloroethane (1,1-DCA)	15 U	114	150	76	113	152	74	53-131	3	30
1,1-Dichloroethene (1,1-DCE)	15 U	103	150	69	103	152	68	61-139	1	30
1,2,3-Trichlorobenzene	15 U	50.7	150	34	47.9	152	32	10-179	6	30
1,2,4-Trichlorobenzene	15 U	44.6	150	30	43.2	152	28	10-179	7	30
1,2-Dibromo-3-chloropropane (DBCP)	15 U	120	150	80	125	152	83	27-163	4	30
1,2-Dibromoethane	15 U	90.4	150	60	103	152	68	52-137	12	30
1,2-Dichlorobenzene	15 U	88.4	150	59	85.7	152	57	22-156	3	30
1,2-Dichloroethane	15 U	105	150	70	104	152	69	59-125	1	30
1,2-Dichloropropane	15 U	116	150	78	116	152	76	67-126	3	30
1,3-Dichlorobenzene	15 U	79.5	150	53	76.5	152	50	29-146	6	30
1,4-Dichlorobenzene	15 U	71.0	150	47	67.5	152	45	10-172	4	30
1,4-Dioxane	300 U	2950	2990	99	3040	3030	100	50-148	1	30
2-Butanone (MEK)	150	784	150	421 *	1140	152	649 *	43-134	43*	30
2-Hexanone	180	650	150	315 *	960	152	515 *	37-146	48*	30
4-Methyl-2-pentanone	24	134	150	74	185	152	106	47-145	36*	30
Acetone	160	1170	150	674 *	1320	152	763 *	11-183	12	30
Benzene	29	160	150	88	159	152	86	63-126	2	30
Bromochloromethane	15 U	92.5	150	62	93.2	152	61	60-119	2	30
Bromodichloromethane	15 U	94.5	150	63	96.5	152	64	47-141	2	30
Bromoform	15 U	75.3	150	50	85.5	152	56	26-157	11	30
Bromomethane	15 U	138	150	92	127	152	84	10-137	9	30
Carbon Disulfide	15 U	63.7	150	43	70.2	152	46	35-135	7	30
Carbon Tetrachloride	15 U	103	150	69	106	152	70	46-137	1	30
Chlorobenzene	15 U	87.0	150	58	85.5	152	56	51-132	4	30
Chloroethane	15 U	117	150	79	114	152	75	45-132	5	30
Chloroform	15 U	107	150	71	106	152	70	61-124	1	30
Chloromethane	15 U	122	150	82	118	152	78	50-136	5	30
cis-1,2-Dichloroethene	15 U	93.2	150	62	93.4	152	62	56-126	<1	30
cis-1,3-Dichloropropene	15 U	75.7	150	51	79.5	152	52	31-150	2	30
Cyclohexane	15 U	102	150	68	98.3	152	65	40-142	5	30
Dibromochloromethane	15 U	94.2	150	63	108	152	71	40-146	12	30
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Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client: Antea USA Inc

Queensbury, NY/Glens Falls -Total Metals

Sample Matrix: Soil

Service Request: Date Collected: R1509359

**Date Received:** 

10/30/15

Date Received: Date Analyzed: 10/31/15 11/3/15

Date Extracted:

NA

## Duplicate Matrix Spike Summary Volatile Organic Compounds by GC/MS

**Sample Name:** CHIPS-1

Units: Basis:

ug/Kg Dry

Lab Code:

**Prep Method:** 

**Project:** 

R1509359-001

EPA 5030C

**Analysis Method:** 8260C

Matrix Spike RO1513639-05 **Duplicate Matrix Spike** RO1513639-06

		KQ151.	0039-03		ΝŲ	1313039-00				
	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Dichlorodifluoromethane (CFC 12)	15 U	146	150	98	139	152	92	44-138	6	30
Dichloromethane	15 U	102	150	68	101	152	67	64-120	1	30
Ethylbenzene	270	438	150	114	437	152	112	44-131	2	30
Isopropylbenzene (Cumene)	15 U	99.0	150	66	105	152	69	36-148	4	30
m,p-Xylenes	550	871	299	108	960	303	136	45-141	23	30
Methyl Acetate	15 U	157	150	105	183	152	121	34-173	14	30
Methyl tert-Butyl Ether	15 U	137	150	92	139	152	92	62-130	<1	30
Methylcyclohexane	15 U	90.1	150	60	88.4	152	58	33-148	3	30
o-Xylene	220	418	150	132	433	152	141 *	46-139	7	30
Styrene	590	836	150	162 *	867	152	180 *	39-149	11	30
Tetrachloroethene (PCE)	15 U	95.1	150	64	103	152	68	45-141	6	30
Toluene	340	565	150	152 *	567	152	152 *	50-140	<1	30
trans-1,2-Dichloroethene	15 U	88.0	150	59	89.4	152	59	52-128	<1	30
trans-1,3-Dichloropropene	15 U	63.0	150	42	66.3	152	44	23-160	5	30
Trichloroethene (TCE)	15 U	88.5	150	59	88.8	152	59	54-136	<1	30
Trichlorofluoromethane (CFC 11)	15 U	109	150	73	107	152	70	47-129	4	30
Vinyl Chloride	15 U	107	150	72	106	152	70	53-128	3	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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## Cooler Receipt and Preservation Check Form

R1509359	5
Queensbury, NY	 

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	Caniste	ers Pressur	rized		edlar® Ba	ags Inflate	≥d	(N/A)
ed	Exp S	Sample II	5	Vol. Added	Lot Add	ed	Final pH	Yes=All samples OK
<del></del>							P	-
								No=Sample
							l	were
								preserved at
PM to								The lab as
				İ				listed
(CN),			1		<u> </u>		<u>.                                    </u>	
	*	**NIn+ +n 1	ha tasta	d hafara	prolesia	-U tooto	nd and	PM OK to
(CN),							and	Adjust:
		(CN), enol).	(CN), mol). **Not to	(CN), mol). **Not to be teste	(CN), mol). **Not to be tested before	(CN), enol).  **Not to be tested before analysis -	(CN), enol).	(CN), enol).  **Not to be tested before analysis pH tested and

PC Secondary Review:	H

\*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r9.doc

9/24/15



Service Request No:R1509358

Mr. Mark Schumacher Antea USA Inc 5788 Widewaters Pkwy Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr. Schumacher.

Enclosed are the results of the sample(s) submitted to our laboratory October 31, 2015 For your reference, these analyses have been assigned our service request number **R1509358**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

1 Rege

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes

Project Manager

#### **ALS Environmental**

Client: Antea
Service Request No.: R1509358
Project: Glens Falls
Date Received: 10/31/15
Sample Matrix: Water

#### CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

#### **Sample Receipt**

Water samples were received for analysis at ALS Environmental in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Site QC was not requested however performed on CHIPS-1. Accuracy and precision were acceptable with the exception of Hexavalent Chromium. The sample was re-extracted and reanalyzed and the low bias was confirmed. Outlying MS recoveries have been flagged with an "\*". Matrix spike recoveries for Cyanide and Phenolics have been flagged with a "#" to identify the spike results as invalid. The results should not be used to assess accuracy due to the sample concentration being greater than 4-times the spike concentration and deemed as not valid.

LCS/LCSD accuracy and precision were acceptable with the exception of LCSD recovery for Pyridine by Method 1311/8270D. The outlying recovery has been flagged with an "\*".

All remaining QC criteria were met.

Client: Antea USA Inc Service Request:R1509358

**Project:** Queensbury, NY/Glens Falls-Waste Characterization

#### **SAMPLE CROSS-REFERENCE**

 SAMPLE #
 CLIENT SAMPLE ID
 DATE
 TIME

 R1509358-001
 TRIP BLANK
 10/30/2015

 R1509358-002
 CHIPS-1
 10/30/2015
 1200

Printed 11/13/2015 10:49:00 AM Sample Summary



## REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)

  The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



#### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

<sup>&</sup>lt;sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <a href="http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads">http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads</a>



## **INORGANIC PREPARATION METHODS**

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

#### Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid	9030B
Soluble	
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual	SM 4500-CN-G
Cyanide	
SM 4500-CN-E WAD	SM 4500-CN-I
Cyanide	

#### Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311)	3005A/3010A
extract	
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

#### Analytical Report

Client:Antea USA IncService Request:R1509358Project:Queensbury, NY/Glens Falls-Waste CharacterizationDate Collected:10/30/15

Sample Matrix: Water Date Received: 10/31/15 10:55

Sample Name:TRIP BLANKUnits: ug/LLab Code:R1509358-001Basis: NA

#### **Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

1,1,1-Trichloroethane	Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,2-Trichloroethane	1,1,1-Trichloroethane (TCA)		5.0	1	11/02/15 15:23	
1,1/2-Trichloro-1,2,2-trifluoroethane	1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	11/02/15 15:23	
1,1/2-trichloro-1,2/2-trifluoroethane		5.0 U	5.0	1	11/02/15 15:23	
	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	11/02/15 15:23	
1,1-Dichloroethene (1,1-DCE)			5.0	1	11/02/15 15:23	
1,2,3-Trichlorobenzene       5.0 U       5.0 I       11/02/15 15:23         1,2,4-Trichlorobenzene       5.0 U       5.0 U       5.0 I       11/02/15 15:23         1,2-Dibromo-3-chloropropane (DBCP)       5.0 U       5.0 U       11/02/15 15:23         1,2-Dibromoethane       5.0 U       5.0 U       11/02/15 15:23         1,2-Dichlorobenzene       5.0 U       5.0 U       11/02/15 15:23         1,2-Dichlorophane       5.0 U       5.0 U       11/02/15 15:23         1,4-Dioxane       10 U       100       11/02/15 15:23         1,4-Dioxane       10 U       100       11/02/15 15:23         2-Butanone (MEK)       10 U       10       11/02/15 15:23         2-Hexanone       10 U       10 U       10 U       11/02/15 15:23         4-Methyl-2-pentanone       10 U       10 U       11/02/15 15:23		5.0 U	5.0	1	11/02/15 15:23	
1,2,4-Trichlorobenzene         5.0 U         5.0 1         11/02/15 15:23           1,2-Dibromo-3-chloropropane (DBCP)         5.0 U         5.0 U         5.0 1         11/02/15 15:23           1,2-Dibromo-schloropropane         5.0 U         5.0 I         11/02/15 15:23           1,2-Dichlorobenzene         5.0 U         5.0 I         11/02/15 15:23           1,2-Dichloropropane         5.0 U         5.0 I         11/02/15 15:23           1,3-Dichlorobenzene         5.0 U         5.0 I         11/02/15 15:23           1,3-Dichlorobenzene         5.0 U         5.0 I         11/02/15 15:23           1,4-Dichlorobenzene         5.0 U         5.0 I         11/02/15 15:23           1,4-Dichlorobenzene         5.0 U         5.0 I         11/02/15 15:23           1,4-Dichlorobenzene         1.0 U         1.00         1         11/02/15 15:23           2-Hexanon		5.0 U	5.0	1	11/02/15 15:23	
1,2-Dibromo-3-chloropropane (DBCP)         5.0 U         5.0 U         1 11/02/15 15:23           1,2-Dibromoethane         5.0 U         5.0 U         1 11/02/15 15:23           1,2-Dichlorobenzene         5.0 U         5.0 U         1 11/02/15 15:23           1,2-Dichloropethane         5.0 U         5.0 U         1 11/02/15 15:23           1,2-Dichloropenae         5.0 U         5.0 U         1 11/02/15 15:23           1,3-Dichlorobenzene         5.0 U         5.0 U         1 11/02/15 15:23           1,4-Dioxane         100 U         100 U         1 11/02/15 15:23           1,4-Dioxane         100 U         100 U         1 11/02/15 15:23           2-Butanone (MEK)         10 U         10 U         1 11/02/15 15:23           2-Hexanone         10 U         10 U         1 11/02/15 15:23           2-Hexanone         10 U         10 U         1 11/02/15 15:23           Acetone         10 U         10 U         1 11/02/15 15:23           Benzene         5.0 U         5.0 U         1 11/02/15 15:23           Bromochloromethane         5.0 U         5.0 U         1 11/02/15 15:23           Bromoform         5.0 U         5.0 U         1 11/02/15 15:23           Bromomethane         5.0 U <td< td=""><td></td><td>5.0 U</td><td>5.0</td><td>1</td><td>11/02/15 15:23</td><td></td></td<>		5.0 U	5.0	1	11/02/15 15:23	
1,2-Dichlorobenzene		5.0 U	5.0	1	11/02/15 15:23	
1,2-Dichlorobenzene		5.0 U	5.0	1	11/02/15 15:23	
1,2-Dichloroethane       5.0 U       5.0 U       1 11/02/15 15:23         1,2-Dichloropropane       5.0 U       5.0 U       1 11/02/15 15:23         1,3-Dichlorobenzene       5.0 U       5.0 U       1 11/02/15 15:23         1,4-Dioxane       100 U       100 U       1 11/02/15 15:23         2-Butanone (MEK)       10 U       10 U       1 11/02/15 15:23         2-Hexanone       10 U       10 U       1 11/02/15 15:23         4-Methyl-2-pentanone       10 U       10 U       1 11/02/15 15:23         4-Methyl-2-pentanone       10 U       10 U       1 11/02/15 15:23         4-Methyl-2-pentanone       10 U       10 U       1 11/02/15 15:23         Benzene       5.0 U       5.0 U       1 11/02/15 15:23         Bromochloromethane       5.0 U       5.0 U       1 11/02/15 15:23         Bromodichloromethane       5.0 U       5.0 U       1 11/02/15 15:23         Bromoform       5.0 U       5.0 U       1 11/02/15 15:23         Bromoform       5.0 U       5.0 U       1 11/02/15 15:23         Bromoform       5.0 U       5.0 U       1 11/02/15 15:23         Carbon Disulfide       10 U       10 U       1 U       1 U       1 U       1 U       1 U <t< td=""><td></td><td></td><td>5.0</td><td>1</td><td>11/02/15 15:23</td><td></td></t<>			5.0	1	11/02/15 15:23	
1,2-Dichloropropane         5.0 U         5.0 U         1 11/02/15 15:23           1,3-Dichlorobenzene         5.0 U         5.0 I         1 11/02/15 15:23           1,4-Dichlorobenzene         5.0 U         5.0 I         1 11/02/15 15:23           1,4-Dichlorobenzene         100 U         100 I         1 11/02/15 15:23           2-Butanone (MEK)         10 U         10 I         1 11/02/15 15:23           2-Hexanone         10 U         10 I         1 11/02/15 15:23           4-Methyl-2-pentanone         10 U         10 I         1 11/02/15 15:23           4-Methyl-2-pentanone         10 U         10 I         1 11/02/15 15:23           Acetone         10 U         10 I         1 11/02/15 15:23           Benzene         5.0 U         5.0 I         1 11/02/15 15:23           Bromochloromethane         5.0 U         5.0 I         1 11/02/15 15:23           Bromodichloromethane         5.0 U         5.0 I         1 11/02/15 15:23           Carbon Tetrachloride <td></td> <td></td> <td>5.0</td> <td>1</td> <td>11/02/15 15:23</td> <td></td>			5.0	1	11/02/15 15:23	
1,3-Dichlorobenzene         5.0 U         5.0 I         11/02/15 15:23           1,4-Dichlorobenzene         5.0 U         5.0 I         11/02/15 15:23           1,4-Dioxane         100 U         100 I         11/02/15 15:23           2-Butanone (MEK)         10 U         10 I         11/02/15 15:23           2-Hexanone         10 U         10 I         11/02/15 15:23           4-Methyl-2-pentanone         10 U         10 I         11/02/15 15:23           Acetone         10 U         10 I         11/02/15 15:23           Benzene         5.0 U         5.0 I         11/02/15 15:23           Bromochloromethane         5.0 U         5.0 I         11/02/15 15:23           Bromoform         5.0 U         5.0 I         11/02/15 15:23           Bromoform         5.0 U         5.0 I         11/02/15 15:23           Bromoform         5.0 U         5.0 I         11/02/15 15:23           Bromofile         10 U         5.0 I         11/02/15 15:23           Bromofile         5.0 U         5.0 I         11/02/15 15:23           Bromofile         5.0 U         5.0 I         11/02/15 15:23           Carbon Disulfide         10 U         10 I         11/02/15 15:23			5.0	1	11/02/15 15:23	
1/4-Dichlorobenzene         5.0 U         5.0 U         1 11/02/15 15:23           1/4-Dioxane         100 U         100         1         11/02/15 15:23           2-Butanone (MEK)         10 U         10         1         11/02/15 15:23           2-Hexanone         10 U         10         1         11/02/15 15:23           4-Methyl-2-pentanone         10 U         10         1         11/02/15 15:23           Acetone         10 U         10         1         11/02/15 15:23           Benzene         5.0 U         5.0         1         11/02/15 15:23           Bromochloromethane         5.0 U         5.0         1         11/02/15 15:23           Bromoform         5.0 U         5.0         1         11/02/15 15:23           Carbon Disulfide         10 U         10         1         11/02/15 15:23           Chlorothane         5			5.0	1	11/02/15 15:23	
1,4-Dioxane						
2-Butanone (MEK)         10 U         10 U         1 11/02/15 15:23           2-Hexanone         10 U         10 U         1 11/02/15 15:23           4-Methyl-2-pentanone         10 U         10 U         1 11/02/15 15:23           Acctone         10 U         10 U         1 11/02/15 15:23           Benzene         5.0 U         5.0 U         1 11/02/15 15:23           Bromodchloromethane         5.0 U         5.0 U         1 11/02/15 15:23           Bromoform         5.0 U         5.0 U         1 11/02/15 15:23           Bromofembane         5.0 U         5.0 U         1 11/02/15 15:23           Bromofembane         5.0 U         5.0 U         1 11/02/15 15:23           Bromofembane         5.0 U         5.0 U         1 11/02/15 15:23           Carbon Disulfide         10 U         10 U         1 11/02/15 15:23           Carbon Disulfide         10 U         10 U         1 11/02/15 15:23           Chlorobenzene         5.0 U         5.0 U         1 11/02/15 15:23           Chlorobenzene         5.0 U         5.0 U         1 11/02/15 15:23           Chloroform         5.0 U         5.0 U         1 11/02/15 15:23           Chloromethane         5.0 U         5.0 U         1 11/02/15			100	1		
2-Hexanone       10 U       10 U       1 11/02/15 15:23         4-Methyl-2-pentanone       10 U       10 U       10 I       11/02/15 15:23         Acetone       10 U       10 U       1 I/02/15 15:23         Benzene       5.0 U       5.0 U       1 I1/02/15 15:23         Bromochloromethane       5.0 U       5.0 I       1 I1/02/15 15:23         Bromodichloromethane       5.0 U       5.0 I       1 I1/02/15 15:23         Bromoform       5.0 U       5.0 I       1 I1/02/15 15:23         Bromomethane       5.0 U       5.0 I       1 I1/02/15 15:23         Bromomethane       5.0 U       5.0 I       1 I1/02/15 15:23         Carbon Disulfide       10 U       10 I       1 I1/02/15 15:23         Carbon Tetrachloride       5.0 U       5.0 I       1 I1/02/15 15:23         Chlorobenzene       5.0 U       5.0 I       1 I1/02/15 15:23         Chloroform       5.0 U       5.0 I       1 I1/02/15 15:23         Chloroform       5.0 U       5.0 I       1 I1/02/15 15:23         Cyclohexane       10 U       10 I       1 I1/02/15 15:23         Cyclohexane       10 U       10 I       1 I1/02/15 15:23         Dichlorodifluoromethane (CFC 12)       5.0 U						
4-Methyl-2-pentanone         10 U         10 U         10 U         11 U         11 U/O2/15 15:23           Acetone         10 U         10 U         10 U         11 U/O2/15 15:23           Benzene         5.0 U         5.0 U         5.0 U         1 11/O2/15 15:23           Bromochloromethane         5.0 U         5.0 U         1 11/O2/15 15:23           Bromoform         5.0 U         5.0 U         1 11/O2/15 15:23           Bromomethane         5.0 U         5.0 U         1 11/O2/15 15:23           Bromomethane         5.0 U         5.0 U         1 11/O2/15 15:23           Carbon Disulfide         10 U         10 U         1 11/O2/15 15:23           Carbon Tetrachloride         5.0 U         5.0 U         1 11/O2/15 15:23           Chlorobenzene         5.0 U         5.0 U         1 11/O2/15 15:23           Chlorobenzene         5.0 U         5.0 U         1 11/O2/15 15:23           Chloroform         5.0 U         5.0 U         1 11/O2/15 15:23           Chloroethane         5.0 U         5.0 U         1 11/O2/15 15:23           Cyclohexane         10 U         10 U         1 11/O2/15 15:23           Dibromochloromethane         5.0 U         5.0 U         1 11/O2/15 15:23			10	1		
Acetone         10 U         10 U         1 11/02/15 15:23           Benzene         5.0 U         5.0 U         1 11/02/15 15:23           Bromochloromethane         5.0 U         5.0 U         1 11/02/15 15:23           Bromodichloromethane         5.0 U         5.0 U         1 11/02/15 15:23           Bromoform         5.0 U         5.0 U         1 11/02/15 15:23           Bromomethane         5.0 U         5.0 U         1 11/02/15 15:23           Carbon Disulfide         10 U         10 I         1 11/02/15 15:23           Carbon Tetrachloride         5.0 U         5.0 I         1 11/02/15 15:23           Chlorobenzene         5.0 U         5.0 I         1 11/02/15 15:23           Chloroethane         5.0 U         5.0 I         1 11/02/15 15:23           Chloroform         5.0 U         5.0 I         1 11/02/15 15:23           Chloroethane         5.0 U         5.0 I         1 11/02/15 15:23           Chloroform         5.0 U         5.0 I         1 11/02/15 15:23           Chloroethane         5.0 U         5.0 I         1 11/02/15 15:23           Chloromethane         5.0 U         5.0 I         1 11/02/15 15:23           Dichloroform         5.0 U         5.0 U         1 11/			10	1		
Benzene   5.0 U   5.0	• •					
Bromochloromethane         5.0 U         5.0 U         5.0 U         1 11/02/15 15:23           Bromodichloromethane         5.0 U         5.0 U         5.0 U         1 11/02/15 15:23           Bromoform         5.0 U         5.0 U         5.0 U         1 11/02/15 15:23           Bromomethane         5.0 U         5.0 U         1 11/02/15 15:23           Carbon Disulfide         10 U         10         1 11/02/15 15:23           Carbon Tetrachloride         5.0 U         5.0         1 11/02/15 15:23           Chlorobenzene         5.0 U         5.0         1 11/02/15 15:23           Chlorothane         5.0 U         5.0         1 11/02/15 15:23           Chloroform         5.0 U         5.0         1 11/02/15 15:23           Chloromethane         5.0 U         5.0         1 11/02/15 15:23           Cyclohexane         10 U         10         1 11/02/15 15:23           Dichloromethane         5.0 U         5.0         1 11/02/15 15:23           Dichloromethane (CFC 12)         5.0 U         5.0         1 11/02/15 15:23           Dichloromethane         5.0 U         5.0         1 11/02/15 15:23           Isopropylbenzene (Cumene)         5.0 U         5.0         1 11/02/15 15:23						
Bromodichloromethane         5.0 U         5.0 U         1 11/02/15 15:23           Bromoform         5.0 U         5.0 U         1 11/02/15 15:23           Bromomethane         5.0 U         5.0 U         1 11/02/15 15:23           Carbon Disulfide         10 U         10 I         1 11/02/15 15:23           Carbon Tetrachloride         5.0 U         5.0 U         1 11/02/15 15:23           Chlorobenzene         5.0 U         5.0 I         1 11/02/15 15:23           Chlorobethane         5.0 U         5.0 I         1 11/02/15 15:23           Chloroform         5.0 U         5.0 I         1 11/02/15 15:23           Cyclohexane         10 U         5.0 I         1 11/02/15 15:23           Obirloromethane         5.0 U         5.0 I         1 11/02/15 15:23           Dichlorodifluoromethane (CFC 12)         5.0 U         5.0 I         1 11/02/15 15:23           Dichloromethane         5.0 U         5.0 I         1 11/02/15 15:23           Ethylbenzene         5.0 U         5.0 I         1 11/02/15 15:23           Sopropylbenzene (Cumene)         5.0 U         5.0 I         1 11/02/15 15:23           Methyl tert-Butyl Ether         5.0 U         5.0 I         1 11/02/15 15:23           Methylcyclohexane			5.0	1	11/02/15 15:23	
Bromoform         5.0 U         5.0 U         1         11/02/15 15:23           Bromomethane         5.0 U         5.0         1         11/02/15 15:23           Carbon Disulfide         10 U         10         1         11/02/15 15:23           Carbon Tetrachloride         5.0 U         5.0         1         11/02/15 15:23           Chlorobenzene         5.0 U         5.0         1         11/02/15 15:23           Chlorobenzene         5.0 U         5.0         1         11/02/15 15:23           Chloroform         5.0 U         5.0         1         11/02/15 15:23           Chloroform         5.0 U         5.0         1         11/02/15 15:23           Cyclohexane         10 U         10         1         11/02/15 15:23           Cyclohexane         10 U         10         1         11/02/15 15:23           Dichloromethane         5.0 U         5.0         1         11/02/15 15:23           Dichloromethane (CFC 12)         5.0 U         5.0         1         11/02/15 15:23           Ethylbenzene         5.0 U         5.0         1         11/02/15 15:23           Isopropylbenzene (Cumene)         5.0 U         5.0         1         11/02/15 15:23			5.0	1		
Bromomethane         5.0 U         5.0 U         1 11/02/15 15:23           Carbon Disulfide         10 U         10         1 11/02/15 15:23           Carbon Tetrachloride         5.0 U         5.0         1 11/02/15 15:23           Chlorobenzene         5.0 U         5.0         1 11/02/15 15:23           Chloroethane         5.0 U         5.0         1 11/02/15 15:23           Chloroform         5.0 U         5.0         1 11/02/15 15:23           Chloromethane         5.0 U         5.0         1 11/02/15 15:23           Cyclohexane         10 U         10         1 11/02/15 15:23           Dibromochloromethane         5.0 U         5.0         1 11/02/15 15:23           Dichlorodifluoromethane (CFC 12)         5.0 U         5.0         1 11/02/15 15:23           Dichloromethane         5.0 U         5.0         1 11/02/15 15:23           Ethylbenzene         5.0 U         5.0         1 11/02/15 15:23           Isopropylbenzene (Cumene)         5.0 U         5.0         1 11/02/15 15:23           Methyl Acetate         10 U         10         1 11/02/15 15:23           Methyl tert-Butyl Ether         5.0 U         5.0         1 11/02/15 15:23           Methylcyclohexane         10 U         <		5.0 U	5.0	1	11/02/15 15:23	
Carbon Disulfide         10 U         10         1 11/02/15 15:23           Carbon Tetrachloride         5.0 U         5.0         1 11/02/15 15:23           Chlorobenzene         5.0 U         5.0         1 11/02/15 15:23           Chloroethane         5.0 U         5.0         1 11/02/15 15:23           Chloroform         5.0 U         5.0         1 11/02/15 15:23           Chloromethane         5.0 U         5.0         1 11/02/15 15:23           Cyclohexane         10 U         10         1 11/02/15 15:23           Dibromochloromethane         5.0 U         5.0         1 11/02/15 15:23           Dichlorodifluoromethane (CFC 12)         5.0 U         5.0         1 11/02/15 15:23           Dichloromethane         5.0 U         5.0         1 11/02/15 15:23           Ethylbenzene         5.0 U         5.0         1 11/02/15 15:23           Ethylbenzene (Cumene)         5.0 U         5.0         1 11/02/15 15:23           Methyl Acetate         10 U         10         1 11/02/15 15:23           Methyl tert-Butyl Ether         5.0 U         5.0         1 11/02/15 15:23           Methylcyclohexane         10 U         10         1 11/02/15 15:23           Styrene         5.0 U         5.0			5.0	1	11/02/15 15:23	
Carbon Tetrachloride       5.0 U       5.0 U       1       11/02/15 15:23         Chlorobenzene       5.0 U       5.0 U       1       11/02/15 15:23         Chloroethane       5.0 U       5.0 U       1       11/02/15 15:23         Chloroform       5.0 U       5.0 U       1       11/02/15 15:23         Chloromethane       5.0 U       5.0 U       1       11/02/15 15:23         Cyclohexane       10 U       10 I       1       11/02/15 15:23         Dibromochloromethane       5.0 U       5.0 I       1       11/02/15 15:23         Dichlorodifluoromethane (CFC 12)       5.0 U       5.0 I       1       11/02/15 15:23         Dichloromethane       5.0 U       5.0 I       1       11/02/15 15:23         Ethylbenzene       5.0 U       5.0 I       1       11/02/15 15:23         Ethylbenzene (Cumene)       5.0 U       5.0 I       1       11/02/15 15:23         Methyl Acetate       10 U       10 I       1       11/02/15 15:23         Methyl tert-Butyl Ether       5.0 U       5.0 I       1       11/02/15 15:23         Methylcyclohexane       10 U       10 I       1       11/02/15 15:23         Styrene       5.0 U       5.0 I <td></td> <td>10 U</td> <td>10</td> <td>1</td> <td>11/02/15 15:23</td> <td></td>		10 U	10	1	11/02/15 15:23	
Chlorobenzene       5.0 U       5.0 U       1       11/02/15 15:23         Chloroethane       5.0 U       5.0 U       1       11/02/15 15:23         Chloroform       5.0 U       5.0 U       1       11/02/15 15:23         Chloromethane       5.0 U       5.0 U       1       11/02/15 15:23         Cyclohexane       10 U       10       1       11/02/15 15:23         Dibromochloromethane       5.0 U       5.0 U       1       11/02/15 15:23         Dichlorodifluoromethane (CFC 12)       5.0 U       5.0 U       1       11/02/15 15:23         Dichloromethane       5.0 U       5.0 U       1       11/02/15 15:23         Ethylbenzene       5.0 U       5.0 U       1       11/02/15 15:23         Isopropylbenzene (Cumene)       5.0 U       5.0 U       1       11/02/15 15:23         Methyl Acetate       10 U       10 U       1       11/02/15 15:23         Methylcyclohexane       10 U       10 U       1       11/02/15 15:23         Styrene       5.0 U       5.0 U       5.0 U       1       11/02/15 15:23         Tetrachloroethene (PCE)       5.0 U       5.0 U       1       11/02/15 15:23		5.0 U	5.0	1	11/02/15 15:23	
Chloroethane       5.0 U       5.0 U       5.0 U       1 11/02/15 15:23         Chloroform       5.0 U       5.0 U       1 11/02/15 15:23         Chloromethane       5.0 U       5.0 U       1 11/02/15 15:23         Cyclohexane       10 U       10 U       1 11/02/15 15:23         Dibromochloromethane       5.0 U       5.0 U       1 11/02/15 15:23         Dichlorodifluoromethane (CFC 12)       5.0 U       5.0 U       1 11/02/15 15:23         Dichloromethane       5.0 U       5.0 U       1 11/02/15 15:23         Ethylbenzene       5.0 U       5.0 U       1 11/02/15 15:23         Isopropylbenzene (Cumene)       5.0 U       5.0 U       1 11/02/15 15:23         Methyl Acetate       10 U       10 U       1 11/02/15 15:23         Methyl tert-Butyl Ether       5.0 U       5.0 U       1 11/02/15 15:23         Methylcyclohexane       10 U       10 U       1 11/02/15 15:23         Styrene       5.0 U       5.0 U       5.0 U       1 11/02/15 15:23         Tetrachloroethene (PCE)       5.0 U       5.0 U       5.0 U       1 11/02/15 15:23		5.0 U	5.0	1	11/02/15 15:23	
Chloroform       5.0 U       5.0 U       1       11/02/15 15:23         Chloromethane       5.0 U       5.0 U       1       11/02/15 15:23         Cyclohexane       10 U       10 U       1       11/02/15 15:23         Dibromochloromethane       5.0 U       5.0 U       1       11/02/15 15:23         Dichlorodifluoromethane (CFC 12)       5.0 U       5.0 U       1       11/02/15 15:23         Dichloromethane       5.0 U       5.0 U       1       11/02/15 15:23         Ethylbenzene       5.0 U       5.0 U       1       11/02/15 15:23         Isopropylbenzene (Cumene)       5.0 U       5.0 U       1       11/02/15 15:23         Methyl Acetate       10 U       10 U       1       11/02/15 15:23         Methyl tert-Butyl Ether       5.0 U       5.0 U       1       11/02/15 15:23         Methylcyclohexane       10 U       10 U       1       11/02/15 15:23         Styrene       5.0 U       5.0 U       1       11/02/15 15:23         Tetrachloroethene (PCE)       5.0 U       5.0 U       1       11/02/15 15:23			5.0	1		
Chloromethane         5.0 U         5.0 U         1 11/02/15 15:23           Cyclohexane         10 U         10 I         1 11/02/15 15:23           Dibromochloromethane         5.0 U         5.0 I         1 11/02/15 15:23           Dichlorodifluoromethane (CFC 12)         5.0 U         5.0 I         1 11/02/15 15:23           Dichloromethane         5.0 U         5.0 I         1 11/02/15 15:23           Ethylbenzene         5.0 U         5.0 I         1 11/02/15 15:23           Isopropylbenzene (Cumene)         5.0 U         5.0 I         1 11/02/15 15:23           Methyl Acetate         10 U         10 I         1 11/02/15 15:23           Methyl tert-Butyl Ether         5.0 U         5.0 I         1 11/02/15 15:23           Methylcyclohexane         10 U         10 I         1 11/02/15 15:23           Styrene         5.0 U         5.0 I         1 11/02/15 15:23           Tetrachloroethene (PCE)         5.0 U         5.0 I         1 11/02/15 15:23			5.0	1	11/02/15 15:23	
Cyclohexane       10 U       10       1 11/02/15 15:23         Dibromochloromethane       5.0 U       5.0 U       1 11/02/15 15:23         Dichlorodifluoromethane (CFC 12)       5.0 U       5.0 U       1 11/02/15 15:23         Dichloromethane       5.0 U       5.0 U       1 11/02/15 15:23         Ethylbenzene       5.0 U       5.0 U       1 11/02/15 15:23         Isopropylbenzene (Cumene)       5.0 U       5.0 U       1 11/02/15 15:23         Methyl Acetate       10 U       10 I       1 11/02/15 15:23         Methyl tert-Butyl Ether       5.0 U       5.0 I       1 11/02/15 15:23         Methylcyclohexane       10 U       10 I       1 11/02/15 15:23         Styrene       5.0 U       5.0 I       1 11/02/15 15:23         Tetrachloroethene (PCE)       5.0 U       5.0 I       1 11/02/15 15:23			5.0	1	11/02/15 15:23	
Dibromochloromethane       5.0 U       5.0 U       1       11/02/15 15:23         Dichlorodifluoromethane (CFC 12)       5.0 U       5.0 U       1       11/02/15 15:23         Dichloromethane       5.0 U       5.0 U       1       11/02/15 15:23         Ethylbenzene       5.0 U       5.0 U       1       11/02/15 15:23         Isopropylbenzene (Cumene)       5.0 U       5.0 U       1       11/02/15 15:23         Methyl Acetate       10 U       10 U       1       11/02/15 15:23         Methyl tert-Butyl Ether       5.0 U       5.0 U       1       11/02/15 15:23         Methylcyclohexane       10 U       10 U       1       11/02/15 15:23         Styrene       5.0 U       5.0 U       5.0 U       1       11/02/15 15:23         Tetrachloroethene (PCE)       5.0 U       5.0 U       1       11/02/15 15:23	Cyclohexane	10 U	10	1	11/02/15 15:23	
Dichlorodifluoromethane (CFC 12)       5.0 U       5.0 U       1       11/02/15 15:23         Dichloromethane       5.0 U       5.0       1       11/02/15 15:23         Ethylbenzene       5.0 U       5.0       1       11/02/15 15:23         Isopropylbenzene (Cumene)       5.0 U       5.0       1       11/02/15 15:23         Methyl Acetate       10 U       10       1       11/02/15 15:23         Methyl tert-Butyl Ether       5.0 U       5.0       1       11/02/15 15:23         Methylcyclohexane       10 U       10       1       11/02/15 15:23         Styrene       5.0 U       5.0       1       11/02/15 15:23         Tetrachloroethene (PCE)       5.0 U       5.0       1       11/02/15 15:23	J	5.0 U	5.0	1	11/02/15 15:23	
Dichloromethane         5.0 U         5.0 U         1 11/02/15 15:23           Ethylbenzene         5.0 U         5.0 U         1 11/02/15 15:23           Isopropylbenzene (Cumene)         5.0 U         5.0 U         1 11/02/15 15:23           Methyl Acetate         10 U         10 I         1 11/02/15 15:23           Methyl tert-Butyl Ether         5.0 U         5.0 I         1 11/02/15 15:23           Methylcyclohexane         10 U         10 I         1 11/02/15 15:23           Styrene         5.0 U         5.0 I         1 11/02/15 15:23           Tetrachloroethene (PCE)         5.0 U         5.0 I         1 11/02/15 15:23			5.0	1	11/02/15 15:23	
Ethylbenzene       5.0 U       5.0 U       1 11/02/15 15:23         Isopropylbenzene (Cumene)       5.0 U       5.0 U       1 11/02/15 15:23         Methyl Acetate       10 U       10 I       1 11/02/15 15:23         Methyl tert-Butyl Ether       5.0 U       5.0 I       1 11/02/15 15:23         Methylcyclohexane       10 U       10 I       1 11/02/15 15:23         Styrene       5.0 U       5.0 I       1 11/02/15 15:23         Tetrachloroethene (PCE)       5.0 U       5.0 I       1 11/02/15 15:23						
Isopropylbenzene (Cumene)       5.0 U       5.0 U       1 11/02/15 15:23         Methyl Acetate       10 U       10 I       1 11/02/15 15:23         Methyl tert-Butyl Ether       5.0 U       5.0 I       1 11/02/15 15:23         Methylcyclohexane       10 U       10 I       1 11/02/15 15:23         Styrene       5.0 U       5.0 I       1 11/02/15 15:23         Tetrachloroethene (PCE)       5.0 U       5.0 I       1 11/02/15 15:23			5.0	1		
Methyl Acetate       10 U       10       1       11/02/15 15:23         Methyl tert-Butyl Ether       5.0 U       5.0       1       11/02/15 15:23         Methylcyclohexane       10 U       10       1       11/02/15 15:23         Styrene       5.0 U       5.0       1       11/02/15 15:23         Tetrachloroethene (PCE)       5.0 U       5.0       1       11/02/15 15:23				1		
Methyl tert-Butyl Ether       5.0 U       5.0 I       11/02/15 15:23         Methylcyclohexane       10 U       10 I       11/02/15 15:23         Styrene       5.0 U       5.0 I       11/02/15 15:23         Tetrachloroethene (PCE)       5.0 U       5.0 I       11/02/15 15:23						
Methylcyclohexane         10 U         10 I         11/02/15 15:23           Styrene         5.0 U         5.0 I         11/02/15 15:23           Tetrachloroethene (PCE)         5.0 U         5.0 I         11/02/15 15:23						
Styrene         5.0 U         5.0 U         1         11/02/15 15:23           Tetrachloroethene (PCE)         5.0 U         5.0 1         11/02/15 15:23						
Tetrachloroethene (PCE) 5.0 U 5.0 1 11/02/15 15:23						
	* /	5.0 U	5.0		11/02/15 15:23	

#### Analytical Report

**Client:** Antea USA Inc Service Request: R1509358 **Date Collected:** 10/30/15 **Project:** Queensbury, NY/Glens Falls-Waste Characterization

**Sample Matrix:** Water **Date Received:** 10/31/15 10:55

TRIP BLANK **Sample Name:** Units: ug/L Lab Code: R1509358-001 Basis: NA

#### **Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	11/02/15 15:23	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	11/02/15 15:23	
Vinyl Chloride	5.0 U	5.0	1	11/02/15 15:23	
cis-1,2-Dichloroethene	5.0 U	5.0	1	11/02/15 15:23	
cis-1,3-Dichloropropene	5.0 U	5.0	1	11/02/15 15:23	
m,p-Xylenes	5.0 U	5.0	1	11/02/15 15:23	
o-Xylene	5.0 U	5.0	1	11/02/15 15:23	
trans-1,2-Dichloroethene	5.0 U	5.0	1	11/02/15 15:23	
trans-1,3-Dichloropropene	5.0 U	5.0	1	11/02/15 15:23	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	11/02/15 15:23	
Dibromofluoromethane	93	89 - 119	11/02/15 15:23	
Toluene-d8	93	87 - 121	11/02/15 15:23	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509358

Project: Queensbury, NY/Glens Falls-Waste Characterization Date Collected: 10/30/15 12:00

Sample Matrix: Soil Date Received: 10/31/15 10:55

Sample Name: CHIPS-1 Basis: Dry

**Lab Code:** R1509358-002

## **General Chemistry Parameters**

							Date	
Analyte Name	<b>Analysis Method</b>	Result	Units	MRL	Dil.	<b>Date Analyzed</b>	Extracted	Q
Chromium, Hexavalent	7196A	5.0 U	mg/Kg	5.0	1	11/04/15 14:10	11/04/15	
Cyanide, Reactive	9014	25 U	mg/Kg	25	1	11/02/15 16:09	11/02/15	
Cyanide, Total	9012B	45.5	mg/Kg	1.2	10	11/02/15 16:14	11/02/15	
Phenolics, Total Recoverable	9066 Modified	12.2	mg/Kg	2.5	20	11/03/15 09:45	11/02/15	
Sulfide, Reactive	9034 Modified	120 U	mg/Kg	120	1	11/02/15 14:47	11/02/15	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509358

Project: Queensbury, NY/Glens Falls-Waste Characterization Date Collected: 10/30/15 12:00

Sample Matrix: Soil Date Received: 10/31/15 10:55

Sample Name: CHIPS-1 Basis: As Received

**Lab Code:** R1509358-002

## **General Chemistry Parameters**

							Date	
Analyte Name	<b>Analysis Method</b>	Result	Units	MRL	Dil.	<b>Date Analyzed</b>	Extracted	Q
Flash Point	ASTM D92-05a	>100	deg C	-	1	11/04/15 08:00	NA	
Free Liquid	9095B	Absent	NONE	-	1	11/02/15 12:50	NA	
рН	9045D	7.14	pH Units	-	1	11/02/15 17:35	NA	Н
Total Solids	ALS SOP	79.0	Percent	-	1	11/04/15 13:05	NA	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509358

Project: Queensbury, NY/Glens Falls-Waste Characterization Date Collected: 10/30/15 12:00

Sample Matrix: Soil Date Received: 10/31/15 10:55

Sample Name: CHIPS-1 Basis: As Received

**Lab Code:** R1509358-002

# Toxicity Characteristics Leachate Procedure (TCLP) Inorganic Parameters

**Pre-Prep Method:** EPA 1311

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Arsenic	6010C	0.50 U	mg/L	0.50	1	11/04/15 09:24	11/03/15	
Barium	6010C	4.3	mg/L	1.0	1	11/04/15 09:24	11/03/15	
Cadmium	6010C	0.15	mg/L	0.10	1	11/04/15 09:24	11/03/15	
Chromium	6010C	0.10 U	mg/L	0.10	1	11/04/15 09:24	11/03/15	
Lead	6010C	0.49	mg/L	0.10	1	11/04/15 09:24	11/03/15	
Mercury	7470A	0.00030 U	mg/L	0.00030	1	11/04/15 13:01	11/04/15	
Selenium	6010C	0.50 U	mg/L	0.50	1	11/04/15 09:24	11/03/15	
Silver	6010C	0.10 U	mg/L	0.10	1	11/04/15 09:24	11/03/15	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509358

Project: Queensbury, NY/Glens Falls-Waste Characterization Date Collected: 10/30/15 12:00

Sample Matrix: Soil Date Received: 10/31/15 10:55

Sample Name: CHIPS-1 Units: ug/L

Lab Code: R1509358-002 Basis: As Received

#### **TCLP Volatile Organics by GC/MS**

Analysis Method:8260CPre-Prep Method:EPA 1311Prep Method:EPA 5030CPre-Prep Date:11/2/15

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1-Dichloroethene (1,1-DCE)	50 U	50	10	11/10/15 01:11	
1,2-Dichloroethane	50 U	50	10	11/10/15 01:11	
2-Butanone (MEK)	230	100	10	11/10/15 01:11	
Benzene	50 U	50	10	11/10/15 01:11	
Carbon Tetrachloride	50 U	50	10	11/10/15 01:11	
Chlorobenzene	50 U	50	10	11/10/15 01:11	
Chloroform	50 U	50	10	11/10/15 01:11	
Tetrachloroethene (PCE)	50 U	50	10	11/10/15 01:11	
Trichloroethene (TCE)	50 U	50	10	11/10/15 01:11	
Vinyl Chloride	50 U	50	10	11/10/15 01:11	

Surrogate Name	% Rec	<b>Control Limits</b>	<b>Date Analyzed</b>	Q
4-Bromofluorobenzene	98	85 - 122	11/10/15 01:11	
Dibromofluoromethane	102	89 - 119	11/10/15 01:11	
Toluene-d8	105	87 - 121	11/10/15 01:11	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509358

Project: Queensbury, NY/Glens Falls-Waste Characterization Date Collected: 10/30/15 12:00

Sample Matrix: Soil Date Received: 10/31/15 10:55

Sample Name: CHIPS-1 Units: ug/L

Lab Code: R1509358-002 Basis: As Received

#### TCLP Semivolatile Organic Compounds by GC/MS

Analysis Method:8270DPre-Prep Method:EPA 1311Prep Method:EPA 3510CPre-Prep Date:11/2/15

Analyte Name	Result	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
1,4-Dichlorobenzene	100 U	100	1	11/05/15 09:37	11/4/15	
2,4,5-Trichlorophenol	100 U	100	1	11/05/15 09:37	11/4/15	
2,4,6-Trichlorophenol	100 U	100	1	11/05/15 09:37	11/4/15	
2,4-Dinitrotoluene	100 U	100	1	11/05/15 09:37	11/4/15	
2-Methylphenol	100 U	100	1	11/05/15 09:37	11/4/15	
3- and 4-Methylphenol Coelution	100 U	100	1	11/05/15 09:37	11/4/15	
Hexachlorobenzene	100 U	100	1	11/05/15 09:37	11/4/15	
Hexachlorobutadiene	100 U	100	1	11/05/15 09:37	11/4/15	
Hexachloroethane	100 U	100	1	11/05/15 09:37	11/4/15	
Nitrobenzene	100 U	100	1	11/05/15 09:37	11/4/15	
Pentachlorophenol (PCP)	500 U	500	1	11/05/15 09:37	11/4/15	
Pyridine	500 U	500	1	11/05/15 09:37	11/4/15	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
2,4,6-Tribromophenol	93	28 - 157	11/05/15 09:37	
2-Fluorobiphenyl	82	39 - 119	11/05/15 09:37	
2-Fluorophenol	42	10 - 105	11/05/15 09:37	
Nitrobenzene-d5	77	37 - 117	11/05/15 09:37	
Phenol-d6	29	10 - 107	11/05/15 09:37	
p-Terphenyl-d14	96	40 - 133	11/05/15 09:37	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509358

Project: Queensbury, NY/Glens Falls-Waste Characterization Date Collected: NA

Sample Matrix: Soil Date Received: NA

Sample Name: Method Blank Basis: Dry

**Lab Code:** R1509358-MB1

## **General Chemistry Parameters**

							Date	
Analyte Name	<b>Analysis Method</b>	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Chromium, Hexavalent	7196A	4.0 U	mg/Kg	4.0	1	11/04/15 14:10	11/04/15	
Cyanide, Reactive	9014	20 U	mg/Kg	20	1	11/02/15 16:07	11/02/15	
Cyanide, Total	9012B	0.10 U	mg/Kg	0.10	1	11/02/15 15:59	11/02/15	
Phenolics, Total Recoverable	9066 Modified	0.10 U	mg/Kg	0.10	1	11/03/15 09:45	11/02/15	
Sulfide, Reactive	9034 Modified	100 U	mg/Kg	100	1	11/02/15 14:47	11/02/15	

Analytical Report

Client: Antea USA Inc Service Request: R1509358

Project: Queensbury, NY/Glens Falls-Waste Characterization Date Collected: NA

Sample Matrix: Soil Date Received: NA

Sample Name: Method Blank Basis: As Received

**Lab Code:** R1509358-MB1

## **General Chemistry Parameters**

							Date	
Analyte Name	<b>Analysis Method</b>	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Free Liquid	9095B	Absent	NONE	_	1	11/02/15 12:50	NA	

Analytical Report

Client: Antea USA Inc Service Request: R1509358

Project:Queensbury, NY/Glens Falls-Waste CharacterizationDate Collected:NASample Matrix:SoilDate Received:NA

Sample Name: Method Blank Basis: Dry

**Lab Code:** R1509358-MB2

## **General Chemistry Parameters**

Analysis

Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Chromium, Hexavalent	7196A	4.0 U	mg/Kg	4.0	1	11/04/15 14:10	11/04/15	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509358

Project:Queensbury, NY/Glens Falls-Waste CharacterizationDate Collected: NASample Matrix:SoilDate Received: NA

Sample Name: Method Blank Basis: As Received

**Lab Code:** R1509358-MB1

# Toxicity Characteristics Leachate Procedure (TCLP) Inorganic Parameters

**Pre-Prep Method:** EPA 1311

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Arsenic	6010C	0.50 U	mg/L	0.50	1	11/04/15 09:12	11/03/15	
Barium	6010C	1.0 U	mg/L	1.0	1	11/04/15 09:12	11/03/15	
Cadmium	6010C	0.10 U	mg/L	0.10	1	11/04/15 09:12	11/03/15	
Chromium	6010C	0.10 U	mg/L	0.10	1	11/04/15 09:12	11/03/15	
Lead	6010C	0.10 U	mg/L	0.10	1	11/04/15 09:12	11/03/15	
Mercury	7470A	0.00030 U	mg/L	0.00030	1	11/04/15 12:58	11/04/15	
Selenium	6010C	0.50 U	mg/L	0.50	1	11/04/15 09:12	11/03/15	
Silver	6010C	0 10 U	mg/L	0.10	1	11/04/15 09:12	11/03/15	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509358

Project: Queensbury, NY/Glens Falls-Waste Characterization Date Collected: NA

Sample Matrix: Soil Date Received: NA

Sample Name: Method Blank Basis: As Received

**Lab Code:** R1509358-MB2

## **Inorganic Parameters**

Analysis

<b>Analyte Name</b>	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Arsenic	6010C	0.50 U	mg/L	0.50	1	11/04/15 08:55	11/03/15	
Barium	6010C	1.0 U	mg/L	1.0	1	11/04/15 08:55	11/03/15	
Cadmium	6010C	0.10 U	mg/L	0.10	1	11/04/15 08:55	11/03/15	
Chromium	6010C	0.10 U	mg/L	0.10	1	11/04/15 08:55	11/03/15	
Lead	6010C	0.10 U	mg/L	0.10	1	11/04/15 08:55	11/03/15	
Mercury	7470A	0.00030 U	mg/L	0.00030	1	11/04/15 12:53	11/04/15	
Selenium	6010C	0.50 U	mg/L	0.50	1	11/04/15 08:55	11/03/15	
Silver	6010C	0.10 U	mg/L	0.10	1	11/04/15 08:55	11/03/15	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509358

Project: Queensbury, NY/Glens Falls-Waste Characterization Date Collected: NA

Sample Matrix: Water Date Received: NA

Sample Name:Method BlankUnits: ug/LLab Code:RQ1513614-04Basis: NA

#### **Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

1,1,1-Trichloroethane	Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,2-Trichloroethane	1,1,1-Trichloroethane (TCA)		5.0	1	11/02/15 09:30	
1,1,2-Trichloroethane	1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	11/02/15 09:30	
1,1/2-Trichloro-1,2/2-trifluoroethane		5.0 U	5.0	1	11/02/15 09:30	
1-1-Dichloroethane (1,1-DCA)		5.0 U	5.0	1	11/02/15 09:30	
1,1-Dichloroethene (1,1-DCE)			5.0	1	11/02/15 09:30	
1,2,3-Trichlorobenzene         5.0 U         5.0 I         1 11/02/15 09:30           1,2,4-Trichlorobenzene         5.0 U         5.0 I         1 11/02/15 09:30           1,2-Dibromo-3-chloropropane (DBCP)         5.0 U         5.0 I         1 11/02/15 09:30           1,2-Dibromoethane         5.0 U         5.0 I         1 11/02/15 09:30           1,2-Dichlorobenzene         5.0 U         5.0 I         1 11/02/15 09:30           1,2-Dichloropopane         5.0 U         5.0 I         1 11/02/15 09:30           1,2-Dichlorobenzene         5.0 U         5.0 I         1 11/02/15 09:30           1,2-Dichlorobenzene         5.0 U         5.0 I         1 11/02/15 09:30           1,3-Dichlorobenzene         5.0 U         5.0 I         1 11/02/15 09:30           1,4-Dioxane         10 U         100 I         1 11/02/15 09:30           1,4-Dioxane         10 U         100 I         1 11/02/15 09:30           2-Butanone (MEK)         10 U         10 I         1 11/02/15 09:30           2-Hexanone         10 U         10 I         1 11/02/15 09:30           4-Methyl-2-pentanone         10 U         10 I         1 11/02/15 09:30           Acetone         10 U         10 I         1 11/02/15 09:30           Benzene		5.0 U	5.0	1	11/02/15 09:30	
1,2,4-Trichlorobenzene         5.0 U         5.0 I         1 11/02/15 09:30           1,2-Dibromo-3-chloropropane (DBCP)         5.0 U         5.0 I         11/02/15 09:30           1,2-Dibromo-thane         5.0 U         5.0 I         11/02/15 09:30           1,2-Dichlorobenzene         5.0 U         5.0 I         11/02/15 09:30           1,2-Dichloropropane         5.0 U         5.0 I         11/02/15 09:30           1,2-Dichlorobenzene         5.0 U         5.0 I         11/02/15 09:30           1,3-Dichlorobenzene         5.0 U         5.0 I         11/02/15 09:30           1,4-Dichlorobenzene         5.0 U         5.0 I         11/02/15 09:30           1,4-Dichlorobenzene         5.0 U         5.0 I         11/02/15 09:30           1,4-Dichlorobenzene         1.0 U         1.0 I         11/02/15 09:30           2-Hexanone         1.0 U         1.0 I         11/02/15 09:30           4-Me		5.0 U	5.0	1	11/02/15 09:30	
1,2-Dibromo-3-chloropropane (DBCP)         5.0 U         5.0 U         1 11/02/15 09:30           1,2-Dibromoethane         5.0 U         5.0 U         1 11/02/15 09:30           1,2-Dichloropene         5.0 U         5.0 U         1 11/02/15 09:30           1,2-Dichloropethane         5.0 U         5.0 U         1 11/02/15 09:30           1,2-Dichloropenae         5.0 U         5.0 U         1 11/02/15 09:30           1,3-Dichlorobenzene         5.0 U         5.0 I         1 11/02/15 09:30           1,4-Dioxane         100 U         100 I         1 11/02/15 09:30           1,4-Dioxane         100 U         100 I         1 11/02/15 09:30           2-Butanone (MEK)         10 U         10 I         1 11/02/15 09:30           2-Hexanone         10 U         10 I         1 11/02/15 09:30           4-Methyl-2-pentanone         10 U         10 I         1 11/02/15 09:30           Acetone         10 U         10 I         1 11/02/15 09:30           Benzene         5.0 U         5.0 I         1 11/02/15 09:30           Bromochloromethane         5.0 U         5.0 I         1 11/02/15 09:30           Bromoform         5.0 U         5.0 I         1 11/02/15 09:30           Bromomethane         5.0 U		5.0 U	5.0	1	11/02/15 09:30	
1,2-Dibromoethane		5.0 U	5.0	1	11/02/15 09:30	
1,2-Dichlorobenzene		5.0 U	5.0	1	11/02/15 09:30	
1,2-Dichloroerthane       5.0 U       5.0 U       1 11/02/15 09:30         1,2-Dichloropropane       5.0 U       5.0 U       1 11/02/15 09:30         1,3-Dichlorobenzene       5.0 U       5.0 U       1 11/02/15 09:30         1,4-Dioxane       100 U       100 U       11/02/15 09:30         2-Butanone (MEK)       10 U       10 U       1 11/02/15 09:30         2-Hexanone       10 U       10 U       1 11/02/15 09:30         4-Methyl-2-pentanone       10 U       10 U       1 11/02/15 09:30         Benzene       5.0 U       5.0 U       1 11/02/15 09:30         Berzene       5.0 U       5.0 U       1 11/02/15 09:30         Bromochloromethane       5.0 U       5.0 U       1 11/02/15 09:30         Bromoform       5.0 U       5.0 U       1 11/02/15 09:30         Bromoform       5.0 U       5.0 U       1 11/02/15 09:30         Carbon Disulfide       10 U       10 U       1 11/02/15 09:30         Carbon Disulfide       5.0 U			5.0	1	11/02/15 09:30	
1,2-Dichloropropane         5.0 U         5.0 U         1 11/02/15 09:30           1,3-Dichlorobenzene         5.0 U         5.0 I         11/02/15 09:30           1,4-Dichlorobenzene         5.0 U         5.0 I         11/02/15 09:30           1,4-Dichlorobenzene         100 U         100         1 11/02/15 09:30           2-Butanone (MEK)         10 U         10 I         11/02/15 09:30           2-Hexanone         10 U         10 I         11/02/15 09:30           4-Methyl-2-pentanone         10 U         10 I         11/02/15 09:30           Acetone         10 U         10 I         11/02/15 09:30           Benzene         5.0 U         5.0 I         11/02/15 09:30           Bromochloromethane         5.0 U         5.0 I         11/02/15 09:30           Bromodichloromethane         5.0 U         5.0 I         11/02/15 09:30           Bromoform         5.0 U         5.0 I         11/02/15 09:30           Bromodichloromethane         5.0 U         5.0 I         11/02/15 09:30           Bromodichloromethane         5.0 U         5.0 I         11/02/15 09:30           Bromodichloromethane         5.0 U         5.0 I         11/02/15 09:30           Carbon Tetrachloride         5.0 U		5.0 U	5.0	1	11/02/15 09:30	
1,3-Dichlorobenzene         5.0 U         5.0 U         1 11/02/15 09:30           1,4-Dichlorobenzene         5.0 U         5.0 U         1 11/02/15 09:30           1,4-Dioxane         100 U         100 U         1 11/02/15 09:30           2-Butanone (MEK)         10 U         10 U         1 11/02/15 09:30           2-Hexanone         10 U         10 U         1 11/02/15 09:30           4-Methyl-2-pentanone         10 U         10 I         1 11/02/15 09:30           Acetone         10 U         10 I         1 11/02/15 09:30           Benzene         5.0 U         5.0 I         1 11/02/15 09:30           Bromochloromethane         5.0 U         5.0 I         1 11/02/15 09:30           Bromoform         5.0 U         5.0 I         1 11/02/15 09:30           Carbon Disulfide         10 U         10 I         1 11/02/15 09:30           Carbon Disulfide         10 U         5.0 U         1 11/02/15		5.0 U	5.0	1	11/02/15 09:30	
1/4-Dichlorobenzene         5.0 U         5.0 U         1 11/02/15 09:30           1/4-Dioxane         100 U         100         1         11/02/15 09:30           2-Butanone (MEK)         10 U         10         1         11/02/15 09:30           2-Hexanone         10 U         10         1         11/02/15 09:30           4-Methyl-2-pentanone         10 U         10         1         11/02/15 09:30           Acetone         10 U         10         1         11/02/15 09:30           Benzene         5.0 U         5.0         1         11/02/15 09:30           Bromochloromethane         5.0 U         5.0         1         11/02/15 09:30           Bromoform         5.0 U         5.0         1         11/02/15 09:30           Carbon Disulfide         10 U         10         1         11/02/15 09:30           Carbon Tetrachloride         5.0 U         5.0         1         11/02/15 09:30           Chloroform			5.0	1	11/02/15 09:30	
1,4-Dioxane         100 U         100 I         11/02/15 09:30           2-Butanone (MEK)         10 U         10 I         1 11/02/15 09:30           2-Hexanone         10 U         10 I         1 11/02/15 09:30           4-Methyl-2-pentanone         10 U         10 I         1 11/02/15 09:30           Acetone         10 U         10 I         1 11/02/15 09:30           Benzene         5.0 U         5.0 I         1 11/02/15 09:30           Bromodhoromethane         5.0 U         5.0 I         1 11/02/15 09:30           Bromodichloromethane         5.0 U         5.0 I         1 11/02/15 09:30           Bromoform         5.0 U         5.0 I         1 11/02/15 09:30           Bromomethane         5.0 U         5.0 I         1 11/02/15 09:30           Carbon Disulfide         10 U         10 I         1 11/02/15 09:30           Carbon Tetrachloride         5.0 U         5.0 I         1 11/02/15 09:30           Chlorobenzene         5.0 U         5.0 I         1 11/02/15 09:30           Chlorothane         5.0 U         5.0 I         1 11/02/15 09:30           Chloromethane         5.0 U         5.0 I         1 11/02/15 09:30           Chloromethane         5.0 U         5.0 I         1						
2-Butanone (MEK)         10 U         10 U         1 11/02/15 09:30           2-Hexanone         10 U         10 U         10 I         11/02/15 09:30           4-Methyl-2-pentanone         10 U         10 I         1 11/02/15 09:30           Acetone         10 U         10 I         1 11/02/15 09:30           Benzene         5.0 U         5.0 I         1 11/02/15 09:30           Bromodichloromethane         5.0 U         5.0 I         1 11/02/15 09:30           Bromoform         5.0 U         5.0 I         1 11/02/15 09:30           Bromodichloromethane         5.0 U         5.0 I         1 11/02/15 09:30           Bromoform         5.0 U         5.0 I         1 11/02/15 09:30           Bromoferm         5.0 U         5.0 I         1 11/02/15 09:30           Carbon Disulfide         10 U         10 I         1 11/02/15 09:30           Carbon Disulfide         10 U         10 I         1 11/02/15 09:30           Chlorobenzene         5.0 U         5.0 I         1 11/02/15 09:30           Chlorobenzene         5.0 U         5.0 I         1 11/02/15 09:30           Chloroethane         5.0 U         5.0 I         1 11/02/15 09:30           Chloroethane         5.0 U         5.0 I			100	1		
2-Hexanone						
4-Methyl-2-pentanone         10 U         10 U         10 U         11 I1/02/15 09:30           Acetone         10 U         10 U         10 I         11/02/15 09:30           Benzene         5.0 U         5.0 U         1 11/02/15 09:30           Bromochloromethane         5.0 U         5.0 I         1 11/02/15 09:30           Bromodichloromethane         5.0 U         5.0 I         1 11/02/15 09:30           Bromoform         5.0 U         5.0 I         1 11/02/15 09:30           Bromomethane         5.0 U         5.0 I         1 11/02/15 09:30           Carbon Disulfide         10 U         10 I         1 11/02/15 09:30           Carbon Tetrachloride         5.0 U         5.0 I         1 11/02/15 09:30           Chlorobenzene         5.0 U         5.0 I         1 11/02/15 09:30           Chlorobenzene         5.0 U         5.0 I         1 11/02/15 09:30           Chloroform         5.0 U         5.0 I         1 11/02/15 09:30           Chloroform         5.0 U         5.0 I         1 11/02/15 09:30           Cyclohexane         10 U         10 I         1 11/02/15 09:30           Dichlorodifluoromethane (CFC 12)         5.0 U         5.0 I         1 11/02/15 09:30           Dichlorodifluor			10	1		
Acetone         10 U         10 U         1 11/02/15 09:30           Benzene         5.0 U         5.0         1 11/02/15 09:30           Bromochloromethane         5.0 U         5.0         1 11/02/15 09:30           Bromodichloromethane         5.0 U         5.0         1 11/02/15 09:30           Bromoform         5.0 U         5.0         1 11/02/15 09:30           Bromomethane         5.0 U         5.0         1 11/02/15 09:30           Carbon Disulfide         10 U         10         1 11/02/15 09:30           Carbon Tetrachloride         5.0 U         5.0         1 11/02/15 09:30           Chlorobenzene         5.0 U         5.0         1 11/02/15 09:30           Chlorotethane         5.0 U         5.0         1 11/02/15 09:30           Chloroform         5.0 U         5.0         1 11/02/15 09:30           Chlorotethane         5.0 U         5.0         1 11/02/15 09:30           Chloromethane         5.0 U         5.0         1 11/02/15 09:30           Chlorotethane         5.0 U         5.0         1 11/02/15 09:30           Chlorotethane         5.0 U         5.0         1 11/02/15 09:30           Chlorotethane         5.0 U         5.0         1 11/02/15 09:30 </td <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td>				1		
Benzene         5.0 U         5.0 U         5.0 U         1 11/02/15 09:30           Bromochloromethane         5.0 U         5.0 U         5.0 U         1 11/02/15 09:30           Bromofichloromethane         5.0 U         5.0 U         1 11/02/15 09:30           Bromoform         5.0 U         5.0 U         1 11/02/15 09:30           Bromomethane         5.0 U         5.0 U         1 11/02/15 09:30           Carbon Disulfide         10 U         10 I         1 11/02/15 09:30           Carbon Tetrachloride         5.0 U         5.0 I         1 11/02/15 09:30           Chlorobenzene         5.0 U         5.0 I         1 11/02/15 09:30           Chlorobenzene         5.0 U         5.0 I         1 11/02/15 09:30           Chloroform         5.0 U         5.0 I         1 11/02/15 09:30           Chloromethane         5.0 U         5.0 I         1 11/02/15 09:30           Cyclohexane         10 U         10 I         1 11/02/15 09:30           Obichloromethane (CFC 12)         5.0 U         5.0 I         1 11/02/15 09:30           Dichloromethane         5.0 U         5.0 I         1 11/02/15 09:30           Bitylbenzene         5.0 U         5.0 I         1 11/02/15 09:30           Bitylbenzene	• •					
Bromochloromethane         5.0 U         5.0 U         5.0 U         1 11/02/15 09:30           Bromodichloromethane         5.0 U         5.0 U         5.0 U         1 11/02/15 09:30           Bromoform         5.0 U         5.0 U         5.0 U         1 11/02/15 09:30           Bromomethane         5.0 U         5.0 U         1 11/02/15 09:30           Carbon Disulfide         10 U         10         1 11/02/15 09:30           Carbon Tetrachloride         5.0 U         5.0         1 11/02/15 09:30           Chlorobenzene         5.0 U         5.0         1 11/02/15 09:30           Chlorothane         5.0 U         5.0         1 11/02/15 09:30           Chloroform         5.0 U         5.0         1 11/02/15 09:30           Cyclohexane         10 U         10         1 11/02/15 09:30           Cyclohexane         10 U         10         1 11/02/15 09:30           Dichloromethane         5.0 U         5.0         1 11/02/15 09:30           Dichloromethane         5.0 U         5.0         1 11/02/15 09:30           Dichloromethane         5.0 U         5.0         1 11/02/15 09:30           Ethylbenzene         5.0 U         5.0         1 11/02/15 09:30           Isopropylbenzene (C						
Bromodichloromethane         5.0 U         5.0 U         1 11/02/15 09:30           Bromoform         5.0 U         5.0 U         1 11/02/15 09:30           Bromomethane         5.0 U         5.0 U         1 11/02/15 09:30           Carbon Disulfide         10 U         10 1 11/02/15 09:30           Carbon Tetrachloride         5.0 U         5.0 U         1 11/02/15 09:30           Chlorobenzene         5.0 U         5.0 U         1 11/02/15 09:30           Chlorobethane         5.0 U         5.0 U         1 11/02/15 09:30           Chloroform         5.0 U         5.0 U         1 11/02/15 09:30           Chloromethane         5.0 U         5.0 U         1 11/02/15 09:30           Cyclohexane         10 U         10 I         1 11/02/15 09:30           Obiromochloromethane (CFC 12)         5.0 U         5.0 I         1 11/02/15 09:30           Dichlorodifluoromethane (CFC 12)         5.0 U         5.0 I         1 11/02/15 09:30           Ethylbenzene         5.0 U         5.0 I         1 11/02/15 09:30           Isopropylbenzene (Cumene)         5.0 U         5.0 I         1 11/02/15 09:30           Methyl Acetate         10 U         10 I         1 11/02/15 09:30           Methylcyclohexane         5.0 U <td></td> <td></td> <td></td> <td>1</td> <td>11/02/15 09:30</td> <td></td>				1	11/02/15 09:30	
Bromoform         5.0 U         5.0 U         5.0 U         1 11/02/15 09:30           Bromomethane         5.0 U         5.0 U         1 11/02/15 09:30           Carbon Disulfide         10 U         10         1 11/02/15 09:30           Carbon Tetrachloride         5.0 U         5.0         1 11/02/15 09:30           Chlorobenzene         5.0 U         5.0         1 11/02/15 09:30           Chlorobethane         5.0 U         5.0         1 11/02/15 09:30           Chloroform         5.0 U         5.0         1 11/02/15 09:30           Chloromethane         5.0 U         5.0         1 11/02/15 09:30           Cyclohexane         10 U         10         1 11/02/15 09:30           Dibromochloromethane (CFC 12)         5.0 U         5.0         1 11/02/15 09:30           Dichlorodifluoromethane (CFC 12)         5.0 U         5.0         1 11/02/15 09:30           Ethylbenzene         5.0 U         5.0         1 11/02/15 09:30           Isopropylbenzene (Cumene)         5.0 U         5.0         1 11/02/15 09:30           Methyl Acetate         10 U         10         1 11/02/15 09:30           Methylcyclohexane         10 U         10         1 11/02/15 09:30           Styrene         5.0 U <td></td> <td></td> <td>5.0</td> <td>1</td> <td></td> <td></td>			5.0	1		
Bromomethane         5.0 U         5.0 U         1 11/02/15 09:30           Carbon Disulfide         10 U         10         1 11/02/15 09:30           Carbon Tetrachloride         5.0 U         5.0         1 11/02/15 09:30           Chlorobenzene         5.0 U         5.0         1 11/02/15 09:30           Chlorocthane         5.0 U         5.0         1 11/02/15 09:30           Chloroform         5.0 U         5.0         1 11/02/15 09:30           Chloromethane         5.0 U         5.0         1 11/02/15 09:30           Cyclohexane         10 U         10         1 11/02/15 09:30           Dibromochloromethane         5.0 U         5.0         1 11/02/15 09:30           Dichlorodifluoromethane (CFC 12)         5.0 U         5.0         1 11/02/15 09:30           Dichloromethane         5.0 U         5.0         1 11/02/15 09:30           Ethylbenzene         5.0 U         5.0         1 11/02/15 09:30           Rethylbenzene (Cumene)         5.0 U         5.0         1 11/02/15 09:30           Methyl Acetate         10 U         10         1 11/02/15 09:30           Methyl tetr-Butyl Ether         5.0 U         5.0         1 11/02/15 09:30           Methylcyclohexane         10 U			5.0	1	11/02/15 09:30	
Carbon Disulfide         10 U         10         1 11/02/15 09:30           Carbon Tetrachloride         5.0 U         5.0         1 11/02/15 09:30           Chlorobenzene         5.0 U         5.0         1 11/02/15 09:30           Chloroethane         5.0 U         5.0         1 11/02/15 09:30           Chloroform         5.0 U         5.0         1 11/02/15 09:30           Chloromethane         5.0 U         5.0         1 11/02/15 09:30           Cyclohexane         10 U         10         1 11/02/15 09:30           Dibromochloromethane         5.0 U         5.0         1 11/02/15 09:30           Dichlorodifluoromethane (CFC 12)         5.0 U         5.0         1 11/02/15 09:30           Dichloromethane         5.0 U         5.0         1 11/02/15 09:30           Ethylbenzene         5.0 U         5.0         1 11/02/15 09:30           Ethylbenzene (Cumene)         5.0 U         5.0         1 11/02/15 09:30           Methyl Acetate         10 U         10         1 11/02/15 09:30           Methyl tert-Butyl Ether         5.0 U         5.0         1 11/02/15 09:30           Methylcyclohexane         10 U         10         1 11/02/15 09:30           Styrene         5.0 U         5.0			5.0	1	11/02/15 09:30	
Carbon Tetrachloride       5.0 U       5.0 U       1       11/02/15 09:30         Chlorobenzene       5.0 U       5.0 U       1       11/02/15 09:30         Chloroethane       5.0 U       5.0 U       1       11/02/15 09:30         Chloroform       5.0 U       5.0 U       1       11/02/15 09:30         Chloromethane       5.0 U       5.0 U       1       11/02/15 09:30         Cyclohexane       10 U       10 I       1       11/02/15 09:30         Dibromochloromethane       5.0 U       5.0 I       1       11/02/15 09:30         Dichlorodifluoromethane (CFC 12)       5.0 U       5.0 I       1       11/02/15 09:30         Dichloromethane       5.0 U       5.0 I       1       11/02/15 09:30         Ethylbenzene       5.0 U       5.0 I       1       11/02/15 09:30         Ethylbenzene (Cumene)       5.0 U       5.0 I       1       11/02/15 09:30         Methyl Acetate       10 U       10 I       1       11/02/15 09:30         Methyl tert-Butyl Ether       5.0 U       5.0 I       1       11/02/15 09:30         Methylcyclohexane       10 U       10 I       1       11/02/15 09:30         Tetrachloroethene (PCE)       5.0 U		10 U	10	1	11/02/15 09:30	
Chlorobenzene       5.0 U       5.0 U       1       11/02/15 09:30         Chloroethane       5.0 U       5.0 U       1       11/02/15 09:30         Chloroform       5.0 U       5.0 U       1       11/02/15 09:30         Chloromethane       5.0 U       5.0 U       1       11/02/15 09:30         Cyclohexane       10 U       10       1       11/02/15 09:30         Dibromochloromethane       5.0 U       5.0 U       1       11/02/15 09:30         Dichlorodifluoromethane (CFC 12)       5.0 U       5.0 U       1       11/02/15 09:30         Dichloromethane       5.0 U       5.0 U       1       11/02/15 09:30         Ethylbenzene       5.0 U       5.0 U       1       11/02/15 09:30         Isopropylbenzene (Cumene)       5.0 U       5.0 U       1       11/02/15 09:30         Methyl tert-Butyl Ether       5.0 U       5.0 U       1       11/02/15 09:30         Methylcyclohexane       10 U       10       1       11/02/15 09:30         Styrene       5.0 U       5.0 U       5.0 U       1       11/02/15 09:30         Tetrachloroethene (PCE)       5.0 U       5.0 U       1       11/02/15 09:30		5.0 U	5.0	1	11/02/15 09:30	
Chloroethane       5.0 U       5.0 U       1       11/02/15 09:30         Chloroform       5.0 U       5.0 U       1       11/02/15 09:30         Chloromethane       5.0 U       5.0 U       1       11/02/15 09:30         Cyclohexane       10 U       10 U       10 U       1       11/02/15 09:30         Dibromochloromethane       5.0 U       5.0 U       5.0 U       1       11/02/15 09:30         Dichloromethane (CFC 12)       5.0 U       5.0 U       5.0 U       1       11/02/15 09:30         Dichloromethane       5.0 U       5.0 U       5.0 U       1       11/02/15 09:30         Ethylbenzene       5.0 U       5.0 U       5.0 U       1       11/02/15 09:30         Isopropylbenzene (Cumene)       5.0 U       5.0 U       1       11/02/15 09:30         Methyl Acetate       10 U       10 U       1       11/02/15 09:30         Methyl tert-Butyl Ether       5.0 U       5.0 U       1       11/02/15 09:30         Methylcyclohexane       10 U       10 U       1       11/02/15 09:30         Styrene       5.0 U       5.0 U       5.0 U       1       11/02/15 09:30         Tetrachloroethene (PCE)       5.0 U       5.0 U		5.0 U	5.0	1	11/02/15 09:30	
Chloroform       5.0 U       5.0 U       1 11/02/15 09:30         Chloromethane       5.0 U       5.0 U       1 11/02/15 09:30         Cyclohexane       10 U       10 I       1 11/02/15 09:30         Dibromochloromethane       5.0 U       5.0 U       1 11/02/15 09:30         Dichlorodifluoromethane (CFC 12)       5.0 U       5.0 U       1 11/02/15 09:30         Dichloromethane       5.0 U       5.0 U       1 11/02/15 09:30         Ethylbenzene       5.0 U       5.0 U       1 11/02/15 09:30         Isopropylbenzene (Cumene)       5.0 U       5.0 U       1 11/02/15 09:30         Methyl Acetate       10 U       10 I       1 11/02/15 09:30         Methyl tert-Butyl Ether       5.0 U       5.0 I       1 11/02/15 09:30         Methylcyclohexane       10 U       10 I       1 11/02/15 09:30         Styrene       5.0 U       5.0 I       1 11/02/15 09:30         Tetrachloroethene (PCE)       5.0 U       5.0 I       1 11/02/15 09:30			5.0	1	11/02/15 09:30	
Chloromethane         5.0 U         5.0 U         1 11/02/15 09:30           Cyclohexane         10 U         10 I         1 11/02/15 09:30           Dibromochloromethane         5.0 U         5.0 I         1 11/02/15 09:30           Dichlorodifluoromethane (CFC 12)         5.0 U         5.0 I         1 11/02/15 09:30           Dichloromethane         5.0 U         5.0 I         1 11/02/15 09:30           Ethylbenzene         5.0 U         5.0 I         1 11/02/15 09:30           Isopropylbenzene (Cumene)         5.0 U         5.0 I         1 11/02/15 09:30           Methyl Acetate         10 U         10 I         1 11/02/15 09:30           Methyl tert-Butyl Ether         5.0 U         5.0 I         1 11/02/15 09:30           Methylcyclohexane         10 U         10 I         1 11/02/15 09:30           Styrene         5.0 U         5.0 I         1 11/02/15 09:30           Tetrachloroethene (PCE)         5.0 U         5.0 I         1 11/02/15 09:30			5.0	1	11/02/15 09:30	
Cyclohexane       10 U       10       1 11/02/15 09:30         Dibromochloromethane       5.0 U       5.0 U       1 11/02/15 09:30         Dichlorodifluoromethane (CFC 12)       5.0 U       5.0 U       1 11/02/15 09:30         Dichloromethane       5.0 U       5.0 U       1 11/02/15 09:30         Ethylbenzene       5.0 U       5.0 U       1 11/02/15 09:30         Isopropylbenzene (Cumene)       5.0 U       5.0 U       1 11/02/15 09:30         Methyl Acetate       10 U       10 I       1 11/02/15 09:30         Methyl tert-Butyl Ether       5.0 U       5.0 I       1 11/02/15 09:30         Methylcyclohexane       10 U       10 I       1 11/02/15 09:30         Styrene       5.0 U       5.0 I       1 11/02/15 09:30         Tetrachloroethene (PCE)       5.0 U       5.0 I       1 11/02/15 09:30			5.0	1	11/02/15 09:30	
Dibromochloromethane       5.0 U       5.0 U       1       11/02/15 09:30         Dichlorodifluoromethane (CFC 12)       5.0 U       5.0 U       1       11/02/15 09:30         Dichloromethane       5.0 U       5.0 U       1       11/02/15 09:30         Ethylbenzene       5.0 U       5.0 U       1       11/02/15 09:30         Isopropylbenzene (Cumene)       5.0 U       5.0 U       1       11/02/15 09:30         Methyl Acetate       10 U       10 I       1       11/02/15 09:30         Methyl tert-Butyl Ether       5.0 U       5.0 U       1       11/02/15 09:30         Methylcyclohexane       10 U       10 I       1       11/02/15 09:30         Styrene       5.0 U       5.0 I       1       11/02/15 09:30         Tetrachloroethene (PCE)       5.0 U       5.0 I       1       11/02/15 09:30			10	1	11/02/15 09:30	
Dichlorodifluoromethane (CFC 12)       5.0 U       5.0 U       1       11/02/15 09:30         Dichloromethane       5.0 U       5.0 U       1       11/02/15 09:30         Ethylbenzene       5.0 U       5.0 U       1       11/02/15 09:30         Isopropylbenzene (Cumene)       5.0 U       5.0 U       1       11/02/15 09:30         Methyl Acetate       10 U       10       1       11/02/15 09:30         Methyl tert-Butyl Ether       5.0 U       5.0 U       1       11/02/15 09:30         Methylcyclohexane       10 U       10       1       11/02/15 09:30         Styrene       5.0 U       5.0 U       5.0 U       1       11/02/15 09:30         Tetrachloroethene (PCE)       5.0 U       5.0 U       5.0 U       1       11/02/15 09:30	J	5.0 U	5.0	1	11/02/15 09:30	
Dichloromethane         5.0 U         5.0 U         1         11/02/15 09:30           Ethylbenzene         5.0 U         5.0 U         1         11/02/15 09:30           Isopropylbenzene (Cumene)         5.0 U         5.0 U         1         11/02/15 09:30           Methyl Acetate         10 U         10 I         1         11/02/15 09:30           Methyl tert-Butyl Ether         5.0 U         5.0 I         1         11/02/15 09:30           Methylcyclohexane         10 U         10 I         1         11/02/15 09:30           Styrene         5.0 U         5.0 I         1         11/02/15 09:30           Tetrachloroethene (PCE)         5.0 U         5.0 I         11/02/15 09:30				1	11/02/15 09:30	
Ethylbenzene       5.0 U       5.0 U       1       11/02/15 09:30         Isopropylbenzene (Cumene)       5.0 U       5.0 U       1       11/02/15 09:30         Methyl Acetate       10 U       10 I       1 11/02/15 09:30         Methyl tert-Butyl Ether       5.0 U       5.0 I       1 11/02/15 09:30         Methylcyclohexane       10 U       10 I       1 11/02/15 09:30         Styrene       5.0 U       5.0 I       1 11/02/15 09:30         Tetrachloroethene (PCE)       5.0 U       5.0 I       1 11/02/15 09:30						
Isopropylbenzene (Cumene)       5.0 U       5.0 U       1 11/02/15 09:30         Methyl Acetate       10 U       10       1 11/02/15 09:30         Methyl tert-Butyl Ether       5.0 U       5.0 U       1 11/02/15 09:30         Methylcyclohexane       10 U       10       1 11/02/15 09:30         Styrene       5.0 U       5.0 U       1 11/02/15 09:30         Tetrachloroethene (PCE)       5.0 U       5.0 U       1 11/02/15 09:30			5.0	1		
Methyl Acetate       10 U       10       1 11/02/15 09:30         Methyl tert-Butyl Ether       5.0 U       5.0 U       1 11/02/15 09:30         Methylcyclohexane       10 U       10       1 11/02/15 09:30         Styrene       5.0 U       5.0 U       1 11/02/15 09:30         Tetrachloroethene (PCE)       5.0 U       5.0 U       1 11/02/15 09:30				1		
Methyl tert-Butyl Ether       5.0 U       5.0 1       11/02/15 09:30         Methylcyclohexane       10 U       10 1       11/02/15 09:30         Styrene       5.0 U       5.0 1       11/02/15 09:30         Tetrachloroethene (PCE)       5.0 U       5.0 1       11/02/15 09:30				1		
Methylcyclohexane         10 U         10 I         1 1/02/15 09:30           Styrene         5.0 U         5.0 I         1 11/02/15 09:30           Tetrachloroethene (PCE)         5.0 U         5.0 I         1 11/02/15 09:30						
Styrene         5.0 U         5.0 I         1 11/02/15 09:30           Tetrachloroethene (PCE)         5.0 U         5.0 I         1 11/02/15 09:30						
Tetrachloroethene (PCE) 5.0 U 5.0 1 11/02/15 09:30						
	* /	5.0 U	5.0		11/02/15 09:30	

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Analytical Report

Client: Antea USA Inc Service Request: R1509358

Project:Queensbury, NY/Glens Falls-Waste CharacterizationDate Collected: NASample Matrix:WaterDate Received: NA

Sample Name:Method BlankUnits: ug/LLab Code:RQ1513614-04Basis: NA

### **Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	11/02/15 09:30	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	11/02/15 09:30	
Vinyl Chloride	5.0 U	5.0	1	11/02/15 09:30	
cis-1,2-Dichloroethene	5.0 U	5.0	1	11/02/15 09:30	
cis-1,3-Dichloropropene	5.0 U	5.0	1	11/02/15 09:30	
m,p-Xylenes	5.0 U	5.0	1	11/02/15 09:30	
o-Xylene	5.0 U	5.0	1	11/02/15 09:30	
trans-1,2-Dichloroethene	5.0 U	5.0	1	11/02/15 09:30	
trans-1,3-Dichloropropene	5.0 U	5.0	1	11/02/15 09:30	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	11/02/15 09:30	
Dibromofluoromethane	94	89 - 119	11/02/15 09:30	
Toluene-d8	94	87 - 121	11/02/15 09:30	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509358

Project: Queensbury, NY/Glens Falls-Waste Characterization Date Collected: NA

Sample Matrix: Soil Date Received: NA

Sample Name: Method Blank Units: ug/L

Lab Code: RQ1513875-01 Basis: As Received

### **TCLP Volatile Organics by GC/MS**

**Analysis Method:** 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	11/10/15 00:22	
1,2-Dichloroethane	5.0 U	5.0	1	11/10/15 00:22	
2-Butanone (MEK)	10 U	10	1	11/10/15 00:22	
Benzene	5.0 U	5.0	1	11/10/15 00:22	
Carbon Tetrachloride	5.0 U	5.0	1	11/10/15 00:22	
Chlorobenzene	5.0 U	5.0	1	11/10/15 00:22	
Chloroform	5.0 U	5.0	1	11/10/15 00:22	
Tetrachloroethene (PCE)	5.0 U	5.0	1	11/10/15 00:22	
Trichloroethene (TCE)	5.0 U	5.0	1	11/10/15 00:22	
Vinyl Chloride	5.0 U	5.0	1	11/10/15 00:22	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	11/10/15 00:22	
Dibromofluoromethane	104	89 - 119	11/10/15 00:22	
Toluene-d8	107	87 - 121	11/10/15 00:22	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509358

Project: Queensbury, NY/Glens Falls-Waste Characterization Date Collected: NA

Sample Matrix: Soil Date Received: NA

Sample Name: Method Blank Units: ug/L

Lab Code: RQ1513481-01 Basis: As Received

### TCLP Semivolatile Organic Compounds by GC/MS

Analysis Method:8270DPre-Prep Method:EPA 1311Prep Method:EPA 3510CPre-Prep Date:11/2/15

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dichlorobenzene	100 U	100	1	11/05/15 10:29	11/4/15	
2,4,5-Trichlorophenol	100 U	100	1	11/05/15 10:29	11/4/15	
2,4,6-Trichlorophenol	100 U	100	1	11/05/15 10:29	11/4/15	
2,4-Dinitrotoluene	100 U	100	1	11/05/15 10:29	11/4/15	
2-Methylphenol	100 U	100	1	11/05/15 10:29	11/4/15	
3- and 4-Methylphenol Coelution	100 U	100	1	11/05/15 10:29	11/4/15	
Hexachlorobenzene	100 U	100	1	11/05/15 10:29	11/4/15	
Hexachlorobutadiene	100 U	100	1	11/05/15 10:29	11/4/15	
Hexachloroethane	100 U	100	1	11/05/15 10:29	11/4/15	
Nitrobenzene	100 U	100	1	11/05/15 10:29	11/4/15	
Pentachlorophenol (PCP)	500 U	500	1	11/05/15 10:29	11/4/15	,
Pyridine	500 U	500	1	11/05/15 10:29	11/4/15	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
2,4,6-Tribromophenol	88	28 - 157	11/05/15 10:29	
2-Fluorobiphenyl	83	39 - 119	11/05/15 10:29	
2-Fluorophenol	46	10 - 105	11/05/15 10:29	
Nitrobenzene-d5	81	37 - 117	11/05/15 10:29	
Phenol-d6	32	10 - 107	11/05/15 10:29	
p-Terphenyl-d14	96	40 - 133	11/05/15 10:29	

#### Analytical Report

Client: Antea USA Inc Service Request: R1509358

Project:Queensbury, NY/Glens Falls-Waste CharacterizationDate Collected: NASample Matrix:SoilDate Received: NA

Sample Name: Method Blank Units: ug/L

Lab Code: RQ1513505-01 Basis: As Received

### TCLP Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dichlorobenzene	100 U	100	1	11/05/15 08:16	11/4/15	
2,4,5-Trichlorophenol	100 U	100	1	11/05/15 08:16	11/4/15	
2,4,6-Trichlorophenol	100 U	100	1	11/05/15 08:16	11/4/15	
2,4-Dinitrotoluene	100 U	100	1	11/05/15 08:16	11/4/15	
2-Methylphenol	100 U	100	1	11/05/15 08:16	11/4/15	
3- and 4-Methylphenol Coelution	100 U	100	1	11/05/15 08:16	11/4/15	
Hexachlorobenzene	100 U	100	1	11/05/15 08:16	11/4/15	
Hexachlorobutadiene	100 U	100	1	11/05/15 08:16	11/4/15	
Hexachloroethane	100 U	100	1	11/05/15 08:16	11/4/15	
Nitrobenzene	100 U	100	1	11/05/15 08:16	11/4/15	
Pentachlorophenol (PCP)	500 U	500	1	11/05/15 08:16	11/4/15	
Pyridine	500 U	500	1	11/05/15 08:16	11/4/15	

Surrogate Name	% Rec	<b>Control Limits</b>	Date Analyzed	Q
2,4,6-Tribromophenol	85	28 - 157	11/05/15 08:16	
2-Fluorobiphenyl	81	39 - 119	11/05/15 08:16	
2-Fluorophenol	46	10 - 105	11/05/15 08:16	
Nitrobenzene-d5	81	37 - 117	11/05/15 08:16	
Phenol-d6	32	10 - 107	11/05/15 08:16	
p-Terphenyl-d14	91	40 - 133	11/05/15 08:16	

QA/QC Report

Client: Antea USA Inc Service Request: R1509358

**Project:** Queensbury, NY/Glens Falls-Waste Characterization **Date Analyzed:** 11/02/15 - 11/04/15

Sample Matrix: Soil

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/Kg
Basis:Dry

## **Lab Control Sample** R1509358-LCS1

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	605	669	90	80-120
Cyanide, Reactive	9014	4.69	209	2	1-100
Cyanide, Total	9012B	0.955	1.00	96	85-115
Phenolics, Total Recoverable	9066 Modified	0.729	0.80	91	59-128
Sulfide, Reactive	9034 Modified	103	110	92	21-118

QA/QC Report

Client: Antea USA Inc Service Request: R1509358

**Project:** Queensbury, NY/Glens Falls-Waste Characterization **Date Analyzed:** 11/02/15 - 11/04/15

Sample Matrix: Soil

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/Kg
Basis:Dry

# **Lab Control Sample** R1509358-LCS2

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	640	643	100	80-120
Cyanide, Total	9012B	3.67	4.00	92	85-115

#### dba ALS Environmental

QA/QC Report

Client: Antea USA Inc

**Project** Queensbury, NY/Glens Falls-Waste Characterization

9034 Modified

Sample Matrix: Soil

**Date Received:** 10/31/15

Service Request: R1509358

**Date Collected:** 10/30/15

**Date Analyzed:** 11/02/15 - 11/04/15

NC

30

NC

Replicate Sample Summary General Chemistry Parameters

Sample Name: CHIPS-1 Units: mg/Kg

Lab Code: R1509358-002 Basis: Dry
Duplicate

130

Sample R1509358-Sample 002DUP1 RPD Limit Analysis Method Result **Analyte Name MRL** RPD Result Average Chromium, Hexavalent 7196A 4.9 4.9 U 4.9 U NC NC 20 25 Cyanide, Reactive 9014 25 U 25 U NC NC 30 Cyanide, Total 9012B 1.2 30 45.5 40.7 23 36.0 Phenolics, Total Recoverable 9066 Modified 2.5 12.2 11.7 12.0 4 30

130 U

130 U

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Sulfide, Reactive

dba ALS Environmental

QA/QC Report

Client:Antea USA IncService Request:R1509358ProjectQueensbury, NY/Glens Falls-Waste CharacterizationDate Collected:10/30/15

Sample Matrix: Soil Date Received: 10/31/15

**Date Analyzed:** 11/04/15

Replicate Sample Summary General Chemistry Parameters

Sample Name: CHIPS-1 Units: deg C

Lab Code: R1509358-002 Basis: As Received

Duplicate Sample R1509358-

Sample 002DUP1
Analyte Name Analysis Method MRL Result Result Average RPD RPD Limit

Flash Point ASTM D92-05a - >100 >100 NC NC 30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc Service Request: R1509358

ProjectQueensbury, NY/Glens Falls-Waste CharacterizationDate Collected:10/30/15Sample Matrix:SoilDate Received:10/31/15

Date Analyzed: 11/02/15

Replicate Sample Summary General Chemistry Parameters

Sample Name: CHIPS-1 Units: pH Units

Lab Code: R1509358-002 Basis: As Received

Duplicate Sample R1509358-

Analyte Name Sample 002DUP1
Analyte Name Analysis Method MRL Result Result Average RPD RPD Limit

 Analyte Name
 Analysis Method
 MRL
 Result
 Average
 RPD
 RPD Lim

 pH
 9045D
 7.14
 7.18
 7.16
 <1</td>
 0.10

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

#### dba ALS Environmental

QA/QC Report

Client: Antea USA Inc Service Request: R1509358

Project Queensbury, NY/Glens Falls-Waste Characterization Date Collected: 10/30/15

Sample Matrix: Soil Date Received: 10/31/15

**Date Analyzed:** 11/04/15

Replicate Sample Summary General Chemistry Parameters

Sample Name: CHIPS-1 Units: mg/Kg

**Lab Code:** R1509358-002 **Basis:** Dry

Duplicate Sample

R1509358-

Analysis Sample 002DUP2

Analyte Name Method MRL Result Result Average RPD RPD Limit
Chromium, Hexavalent 7196A 5.0 5.0 U 5.0 U NC NC 20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

**Client:** Antea USA Inc

Queensbury, NY/Glens Falls-Waste Characterization

**Sample Matrix:** 

**Project:** 

Lab Code:

**Date Received:** 10/31/15

Service Request:R1509358

Date Collected: 10/30/15

**Date Analyzed:** 11/02/15 - 11/04/15

**Matrix Spike Summary General Chemistry Parameters** 

CHIPS-1 Sample Name:

R1509358-002

Units:mg/Kg Basis:Dry

Matrix Spike R1509358-002MS1

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	4.9	20.8	48.9	42 *	75-125
Cyanide, Reactive	9014	25	11	263	4	1-100
Cyanide, Total	9012B	45.5	26.9	1.1	-1672 #	10-159
Phenolics, Total Recoverable	9066 Modified	12.2	14.1	1	199#	72-113
Sulfide, Reactive	9034 Modified	130	140	140	97	21-118

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 11/13/2015 10:49:04 AM

QA/QC Report

Client:Antea USA IncService Request:R1509358Project:Queensbury, NY/Glens Falls-Waste CharacterizationDate Collected:10/30/15Sample Matrix:SoilDate Received:10/31/15

 Date Received:
 10/31/15

 Date Analyzed:
 11/4/15

 Date Extracted:
 11/4/15

Matrix Spike Summary Chromium, Hexavalent

 Sample Name:
 CHIPS-1
 Units:
 mg/Kg

 Lab Code:
 R1509358-002
 Basis:
 Dry

**Analysis Method:** 7196A **Prep Method:** EPA 3060A

> Matrix Spike R1509358-002MS2

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	49 U	250	791	32 *	75-125

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client:Antea USA IncService Request:R1509358Project:Queensbury, NY/Glens Falls-Waste CharacterizationDate Collected:10/30/15Sample Matrix:SoilDate Received:10/31/15

 Date Received:
 10/31/15

 Date Analyzed:
 11/4/15

 Date Extracted:
 11/4/15

Matrix Spike Summary Chromium, Hexavalent

 Sample Name:
 CHIPS-1
 Units:
 mg/Kg

 Lab Code:
 R1509358-002
 Basis:
 Dry

**Analysis Method:** 7196A **Prep Method:** EPA 3060A

> Matrix Spike R1509358-002MS3

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	5.0 U	17.0	50.4	34 *	75-125

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client:Antea USA IncService Request:R1509358Project:Queensbury, NY/Glens Falls-Waste CharacterizationDate Collected:10/30/15Sample Matrix:SoilDate Received:10/31/15

 Date Received:
 10/31/15

 Date Analyzed:
 11/4/15

 Date Extracted:
 11/4/15

Matrix Spike Summary Chromium, Hexavalent

 Sample Name:
 CHIPS-1
 Units:
 mg/Kg

 Lab Code:
 R1509358-002
 Basis:
 Dry

**Analysis Method:** 7196A **Prep Method:** EPA 3060A

> Matrix Spike R1509358-002MS4

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	49 U	262	802	33 *	75-125

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client: Antea USA Inc

Queensbury, NY/Glens Falls-Waste Characterization

Sample Matrix:

**Project:** 

Soil

**Date Analyzed:** 11/04/15

**Service Request:** R1509358 **Date Analyzed:** 11/04/15

# Lab Control Sample Summary Inorganic Parameters

Units:mg/L

Basis: As Received

# **Lab Control Sample**

R1509358-LCS1

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	6010C	4.53	5.0	91	80-120
Barium	6010C	5.17	5.0	103	80-120
Cadmium	6010C	0.923	1.00	92	80-120
Chromium	6010C	4.92	5.00	98	80-120
Lead	6010C	5.01	5.00	100	80-120
Selenium	6010C	0.858	1.00	86	80-120
Silver	6010C	4.97	5.00	99	80-120

QA/QC Report

Client: Antea USA Inc

Queensbury, NY/Glens Falls-Waste Characterization **Date Analyzed:** 11/04/15

Sample Matrix: So

**Project:** 

Soil

-

Service Request: R1509358

**Duplicate Lab Control Sample Summary Inorganic Parameters** 

Units:mg/L

Basis: As Received

Lab Control Sample

**Duplicate Lab Control Sample** 

R1509358-LCS2

R1509358-DLCS2

	Analytical		Spike			Spike		% Rec		RPD
Analyte Name	Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Mercury	7470A	0.000977	0.00100	98	0.000935	0.00100	94	80-120	4	20

#### dba ALS Environmental

QA/QC Report

Client: Antea USA Inc

Service Request: R1509358

**Project** Queensbury, NY/Glens Falls-Waste Characterization

**Date Collected:** 10/30/15

Sample Matrix: Soil

**Date Received:** 10/31/15 **Date Analyzed:** 11/04/15

Replicate Sample Summary Inorganic Parameters

Sample Name: CHIPS-1

Units: mg/L

**Lab Code:** R1509358-002

Basis: As Received

**Duplicate Sample** 

Analysis		Sample	R1509358- 002DHP			
Method	MRL	Result	Result	Average	RPD	RPD Limit
6010C	0.50	0.50 U	0.50 U	NC	NC	20
6010C	1.0	4.3	4.2	4.24	3	20
6010C	0.10	0.15	0.15	0.148	2	20
6010C	0.10	0.10 U	0.10 U	NC	NC	20
6010C	0.10	0.49	0.48	0.487	2	20
6010C	0.50	0.50 U	0.50 U	NC	NC	20
6010C	0.10	0.10 U	0.10 U	NC	NC	20
	6010C 6010C 6010C 6010C 6010C 6010C	Method         MRL           6010C         0.50           6010C         1.0           6010C         0.10           6010C         0.10           6010C         0.10           6010C         0.50	Method         MRL         Result           6010C         0.50         0.50 U           6010C         1.0         4.3           6010C         0.10         0.15           6010C         0.10         0.10 U           6010C         0.10         0.49           6010C         0.50         0.50 U	Analysis         Sample         002DUP           Method         MRL         Result         Result           6010C         0.50         0.50 U         0.50 U           6010C         1.0         4.3         4.2           6010C         0.10         0.15         0.15           6010C         0.10         0.10 U         0.10 U           6010C         0.10         0.49         0.48           6010C         0.50         0.50 U         0.50 U	Analysis         Sample         002DUP           Method         MRL         Result         Result         Average           6010C         0.50         0.50 U         0.50 U         NC           6010C         1.0         4.3         4.2         4.24           6010C         0.10         0.15         0.15         0.148           6010C         0.10         0.10 U         0.10 U         NC           6010C         0.10         0.49         0.48         0.487           6010C         0.50         0.50 U         0.50 U         NC	Analysis         Sample Method         002DUP MRL         Result         Average         RPD           6010C         0.50         0.50 U         0.50 U         NC         NC           6010C         1.0         4.3         4.2         4.24         3           6010C         0.10         0.15         0.15         0.148         2           6010C         0.10         0.10 U         0.10 U         NC         NC           6010C         0.10         0.49         0.48         0.487         2           6010C         0.50         0.50 U         0.50 U         NC         NC

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client: Antea USA Inc

Queensbury, NY/Glens Falls-Waste Characterization

**Sample Matrix:** So

**Project:** 

Lab Code:

- ..

**Date Received:** 10/31/15 **Date Analyzed:** 11/4/15

Service Request:R1509358

Date Collected: 10/30/15

Matrix Spike Summary Inorganic Parameters

Sample Name: CHIPS-1

R1509358-002

Units:mg/L

Basis: As Received

## Matrix Spike R1509358-002MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	6010C	3.0	5.2	5.0	105	75-125
Barium	6010C	4.3	9.2	5.0	98	75-125
Cadmium	6010C	0.15	1.14	1.00	99	75-125
Chromium	6010C	0.10	5.01	5.00	100	75-125
Lead	6010C	0.49	5.30	5.00	96	75-125
Selenium	6010C	0.50	1.07	1.00	107	75-125
Silver	6010C	0.60	5.25	5.00	105	75-125

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls-Waste Characterization

Sample Matrix: Water

Printed 11/13/2015 10:49:13 AM

# Lab Control Sample Summary Volatile Organic Compounds by GC/MS

Units:ug/L Basis:NA

Service Request: R1509358

**Date Analyzed:** 11/02/15

# **Lab Control Sample**

RQ1513614-03

Analytical

	Analytical				
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	17.8	20.0	89	74-120
1,1,2,2-Tetrachloroethane	8260C	17.7	20.0	88	78-122
1,1,2-Trichloroethane	8260C	16.5	20.0	82	82-118
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	18.4	20.0	92	75-124
1,1-Dichloroethane (1,1-DCA)	8260C	19.3	20.0	96	78-117
1,1-Dichloroethene (1,1-DCE)	8260C	20.0	20.0	100	74-135
1,2,3-Trichlorobenzene	8260C	20.7	20.0	103	56-164
1,2,4-Trichlorobenzene	8260C	20.3	20.0	101	68-147
1,2-Dibromo-3-chloropropane (DBCP)	8260C	17.1	20.0	85	55-149
1,2-Dibromoethane	8260C	17.2	20.0	86	81-125
1,2-Dichlorobenzene	8260C	18.4	20.0	92	80-119
1,2-Dichloroethane	8260C	17.7	20.0	89	71-127
1,2-Dichloropropane	8260C	18.3	20.0	92	80-119
1,3-Dichlorobenzene	8260C	18.7	20.0	93	79-121
1,4-Dichlorobenzene	8260C	18.0	20.0	90	79-119
1,4-Dioxane	8260C	364	400	91	69-151
2-Butanone (MEK)	8260C	19.7	20.0	99	61-137
2-Hexanone	8260C	18.5	20.0	93	63-124
4-Methyl-2-pentanone	8260C	15.3	20.0	76	66-124
Acetone	8260C	22.7	20.0	114	40-161
Benzene	8260C	18.5	20.0	92	76-118
Bromochloromethane	8260C	17.9	20.0	90	81-126
Bromodichloromethane	8260C	16.8	20.0	84	78-126
Bromoform	8260C	17.3	20.0	87	71-136
Bromomethane	8260C	23.8	20.0	119	42-166
Carbon Disulfide	8260C	19.6	20.0	98	65-127
Carbon Tetrachloride	8260C	18.9	20.0	94	68-125
Chlorobenzene	8260C	17.6	20.0	88	80-121
Chloroethane	8260C	19.8	20.0	99	70-127
Chloroform	8260C	18.5	20.0	93	76-120
Chloromethane	8260C	24.6	20.0	123	69-145
Cyclohexane	8260C	19.0	20.0	95	63-121
Dibromochloromethane	8260C	16.5	20.0	82	77-128
D : 4 1 11/12/2015 10 40 12 AM			g .	D C 15 0000	252622 00

Superset Reference: 15-0000352632 rev 00

QA/QC Report

Client: Antea USA Inc

**Project:** Queensbury, NY/Glens Falls-Waste Characterization

Sample Matrix: Water

# Lab Control Sample Summary Volatile Organic Compounds by GC/MS

Units:ug/L Basis:NA

Service Request: R1509358

**Date Analyzed:** 11/02/15

### **Lab Control Sample**

RQ1513614-03

A call to Name	Analytical	D14	Carllan Assessment	0/ D	0/ D I
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	28.3	20.0	142	65-152
Dichloromethane	8260C	19.5	20.0	97	73-122
Ethylbenzene	8260C	18.7	20.0	93	76-120
Isopropylbenzene (Cumene)	8260C	19.7	20.0	98	78-126
Methyl Acetate	8260C	18.2	20.0	91	62-131
Methyl tert-Butyl Ether	8260C	17.7	20.0	88	78-125
Methylcyclohexane	8260C	21.5	20.0	108	51-129
Styrene	8260C	19.6	20.0	98	80-124
Tetrachloroethene (PCE)	8260C	18.2	20.0	91	78-124
Toluene	8260C	16.7	20.0	83	77-120
Trichloroethene (TCE)	8260C	18.2	20.0	91	78-123
Trichlorofluoromethane (CFC 11)	8260C	19.6	20.0	98	68-126
Vinyl Chloride	8260C	21.0	20.0	105	69-133
cis-1,2-Dichloroethene	8260C	19.4	20.0	97	80-121
cis-1,3-Dichloropropene	8260C	16.7	20.0	83	74-126
m,p-Xylenes	8260C	39.1	40.0	98	78-123
o-Xylene	8260C	18.9	20.0	95	80-120
trans-1,2-Dichloroethene	8260C	19.8	20.0	99	80-120
trans-1,3-Dichloropropene	8260C	16.1	20.0	80	67-135

QA/QC Report

Client: Antea USA Inc

Queensbury, NY/Glens Falls-Waste Characterization Date Analyzed: 11/09/15

Sample Matrix: Soil

**Project:** 

Lab Control Sample Summary
TCLP Volatile Organics by GC/MS

Units:ug/L

Service Request: R1509358

Basis: As Received

### **Lab Control Sample**

RQ1513875-02

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
1,1-Dichloroethene (1,1-DCE)	8260C	22.8	20.0	114	74-135
1,2-Dichloroethane	8260C	22.2	20.0	111	71-127
2-Butanone (MEK)	8260C	23.5	20.0	118	61-137
Benzene	8260C	21.3	20.0	106	76-118
Carbon Tetrachloride	8260C	17.9	20.0	90	68-125
Chlorobenzene	8260C	20.1	20.0	100	80-121
Chloroform	8260C	22.4	20.0	112	76-120
Tetrachloroethene (PCE)	8260C	18.6	20.0	93	78-124
Trichloroethene (TCE)	8260C	22.1	20.0	110	78-123
Vinyl Chloride	8260C	21.9	20.0	109	69-133

QA/QC Report

**Client:** Antea USA Inc

Service Request: R1509358 **Project:** Queensbury, NY/Glens Falls-Waste Characterization **Date Analyzed:** 11/05/15

**Sample Matrix:** Soil

# **Duplicate Lab Control Sample Summary** TCLP Semivolatile Organic Compounds by GC/MS

Units:ug/L

Basis: As Received

Lab Control Sample

**Duplicate Lab Control Sample** 

RQ1513505-02

RQ1513505-03

Analyte Name	Analytica l Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	8270D	608	1000	61	607	1000	61	10-124	<1	30
2,4,5-Trichlorophenol	8270D	977	1000	98	1020	1000	102	62-117	5	30
2,4,6-Trichlorophenol	8270D	950	1000	95	960	1000	96	62-115	1	30
2,4-Dinitrotoluene	8270D	986	1000	99	984	1000	98	69-122	<1	30
2-Methylphenol	8270D	792	1000	79	809	1000	81	59-104	2	30
3- and 4-Methylphenol Coelution	8270D	1460	2000	73	1490	2000	75	50-111	2	30
Hexachlorobenzene	8270D	985	1000	98	1010	1000	101	76-119	3	30
Hexachlorobutadiene	8270D	593	1000	59	598	1000	60	16-95	<1	30
Hexachloroethane	8270D	563	1000	56	547	1000	55	15-92	3	30
Nitrobenzene	8270D	885	1000	88	897	1000	90	51-113	1	30
Pentachlorophenol (PCP)	8270D	880	1000	88	936	1000	94	56-146	6	30
Pyridine	8270D	269	1000	27	500	1000	0 *	10-123	NC	30

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# Cooler Receipt and Preservation Check Form

Project/Clie	nt And	Eu.			I	Folder	Nun	nber_	K	1500	1958			
Cooler receive	ed on 10/3	i/ic	-	by:	@		COU	RIER:	ALS	UPS	(EDEX)	VELOCI	TY CLI	ENT
1 Were Cus	stody seals on	outsid	e of co	ooler?	0	N	5a	Perch	lorate	samples	have require	d headsp	ace?	Y
2 Custody	papers proper	ly con	pleted	(ink, si			5b	Did V	OA v	ials, Alk,	or Sulfide hav	ve sig* b	ubbles?	Y
3 Did all bo	ottles arrive in	good c	onditi	on (unb	roken)? Y	N	6	Wher	e did t	he bottles	originate?	ΑĬ	S/ROC	C
4 Circle: (	Wet Ice Dry	Ice (	Gel pa	cks p	oresent?	N	7	Soil \	/OA re	eceived a	s: Bulk	Encore	e 503	5set
8. Temperatur	e Readings	Da	te:/	0/31/1	Time:	1108		ID:	IR#3	(R#5)	Fre	om:(Ter	np Blank	: Si
Observed Te	mp (°C)	T	1.0	r		$\top$						$\neg$		T
Correction F			to.											
Corrected Te	mp (°C)		3.											
Within 0-6°C			0	N	Y N			N	Y	N	Y N	У	N	I
If <0°C, were	e samples froz	en?	Y.	N	Y N		Y	N	Y	N	Y N	Y	N	
If out of T	emperature,	note p	ackin	g/ice co	ndition:		I	ce mel	ted	Poor	ly Packed	5	Same Day	y Rul
&Client A	pproval to R	un Sai	mples:		Standing	g Appro	oval	Clien	t awar	e at drop-	off Client	notified	by:	
All samples	held in storag	e locat	tion:		R-002	by	a	)	on	10/31	/ at	1110		
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pH	y discrepanci	es: Yes	No	T -4 D	eceived	T F	T 6	1. TY		17-1	T -4 A 3 3 - 4		TiI	1 2/-
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Service Request No:R1509911

Mr. Mark Schumacher Antea USA Inc 5788 Widewaters Pkwy Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr. Schumacher.

Enclosed are the results of the sample(s) submitted to our laboratory November 16, 2015 For your reference, these analyses have been assigned our service request number **R1509911**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

1 Rege

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes

Project Manager

### **CASE NARRATIVE**

This report contains analytical results for the following samples:

Service Request Number: R1509911

SAMPLE#	CLIENT SAMPLE ID	<u>DATE</u>	<u>TIME</u>
R1509911-001	BOX-1	11/13/2015	1000
R1509911-002	BOX-2	11/13/2015	1030

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.



# REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)

  The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



#### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

<sup>&</sup>lt;sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <a href="http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads">http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads</a>

Analytical Report

Client: Antea USA Inc Service Request: R1509911

Project: Queensbury, NY/Glens Falls Date Collected: 11/13/15 10:00

Sample Matrix: Soil Date Received: 11/16/15 11:00

Sample Name: BOX-1 Basis: As Received

**Lab Code:** R1509911-001

# **General Chemistry Parameters**

Analysis

	Allalysis						
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Free Liquid	9095B	Absent	NONE	-	1	11/17/15 14:40	

Analytical Report

**Client:** Antea USA Inc

Service Request: R1509911 **Date Collected:** 11/13/15 10:30 **Project:** Queensbury, NY/Glens Falls

**Date Received:** 11/16/15 11:00 **Sample Matrix:** Soil

Basis: As Received **Sample Name:** BOX-2

Lab Code: R1509911-002

## **General Chemistry Parameters**

Analysis

	Allalysis						
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Free Liquid	9095B	Absent	NONE	-	1	11/17/15 14:40	

Analytical Report

**Client:** Antea USA Inc

Service Request: R1509911

**Project:** Queensbury, NY/Glens Falls Date Collected: NA Date Received: NA **Sample Matrix:** Soil

Basis: As Received **Sample Name:** Method Blank

Lab Code: R1509911-MB

### **General Chemistry Parameters**

**Analysis** 

**Analyte Name** Method Result Units MRL Dil. **Date Analyzed** Q Free Liquid 9095B 01/17/15 14:40 Absent NONE

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Glens Falls	(LCS, DUP, MS/MSD as required)	1 day2 day3 day4 day5 day	all anulysis	data puckage for	e as standard	electronic data due as standard data puckage for all analysis
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	× —		Sidiment 1	11/13/2015 )000		0 % -
			MATRIX	SAMPLING DATE TIME	FOR OFFICE USE	CLIENT SAMPLE ID
ALTERNATE DESCRIPTION	Pe	GC/ ° 827 GC ° 802 PES ° 808 PCB ° 808 MET. (List ii	NU	Bygn Reles	Sampler's P Bays	r's Signature
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2: HNO3 3: H <sub>2</sub> SO <sub>4</sub> 4: NaOH			DNTAIN		Syrucuse, NY 13214	Syracus
Preservative Key 0. NONE 1. HCL		/ / / / /		Group - 5788 Wide Waters Parkway, and Floor	8 Wide Waters	
		TIVE	PRESERVATIVE		Ma Char Report CC	Mark Schumacher

ALS	
ject/Client_	

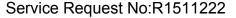
Cooler Receipt and Preserva

R1509911 5
Antea USA Inc
Queensbury, NY

Pro	ject/Clier	n Ante	CC	Gr	our	, Fo	older N	Vun	nbe.							
	oler receive	12 17 1	5		by:	1E	C	OU.	RIER:	ALS	UPS (	FEDE	XVE	ELOCIT	Y CLI	EN]
1 Were Custody seals on outside of cooler?					v [	5a	Perchl	orate	samples	have re	quired 1	headspac	ce?	Y		
2	Custody	papers proper	y com	pleted	(ink, si	igned)? (Y)	<u>تا ات</u>	5b	Did V	OA via	als, Alk,c	r Sulfic	le have	sig* bul	obles?	Y
3	Did all bot	ttles arrive in g	good c	onditio	on (unb	oroken)?	1	6	Where	did th	e bottles	origina	ite?	ALS	/ROC	70
4 Circle: Wet Ice Dry Ice Gel packs present? Y N					v	7	Soil V	OA re	ceived as	: E	ulk	Encore	503	5set		
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	If out of Temperature, note packing/ice condition: Ice melted Poorly Packed Same Day Ri  & Client Approval to Run Samples: Standing Approval Client aware at drop-off Client notified by:															
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	PC Secondary Review:															
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<ol> <li>Were all bottle labels complete (i.e. analysis, preservati</li> </ol>					rvation	, etc	c.)?	,	$\Delta y$	ES	NO NO					
<ol> <li>Did all bottle labels and tags agree with custody papers</li> <li>Were correct containers used for the tests indicated?</li> </ol>					apers?				TO A	<b>3</b>	NO					
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}	≥12	NaOH		-				-			Added					]
t	≤2	HNO <sub>3</sub>														N
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9/24/15





Christopher Meyer Antea Group

Laboratory Results for: Queensbury, NY

Dear Christopher,

Enclosed are the results of the sample(s) submitted to our laboratory December 28, 2015 For your reference, these analyses have been assigned our service request number **R1511222**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

1 Kege

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes

**Project Manager** 

### **CASE NARRATIVE**

This report contains analytical results for the following samples:

Service Request Number: R1511222

SAMPLE #	CLIENT SAMPLE ID	<u>DATE</u>	<u>TIME</u>
R1511222-001	Box-1	12/28/2015	0908
R1511222-002	Box-2	12/28/2015	0917

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.



# REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
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- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)

  The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



#### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

<sup>&</sup>lt;sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <a href="http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads">http://www.alsglobal.com/en/Our-Services/Environmental/Downloads/North-America-Downloads</a>

Client: Antea USA Inc Service Request:R1511222

**Project:** Queensbury, NY/Ashland Glens Falls

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
ALS SOP	Soil	Total Solids

 Non-Certified Analytes

4 of 7

## ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:Antea USA IncService Request: R1511222Project:Queensbury, NY/Ashland Glens FallsDate Collected: 12/28/15

Sample Matrix: Soil Date Received: 12/28/15

Analysis Method: ALS SOP Units: Percent

Basis: As Received

**Total Solids** 

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
Box-1	R1511222-001	76.8	-	1	12/29/15 18:33	
Box-2	R1511222-002	73.7	-	1	12/29/15 18:33	

R1511222 5  Weensbury, NY  Weensbury	ame	Matt Sive	Printed Name Kakie Aungel Film H M Shui M Miss Name I N M M Shui M Miss Name I N M Miss Name I N M	Printed Name Kakie  Firm Ante of Gr  Date/Time 13/38/  Distribution: White - Lab
RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RECEIVED BY	RELINQU
	EdataYesNo		STATE WHERE SAMPLES WERE COLLECTED - No York	STATE WHERE S
	IV. Data Validation Report with Raw Data	REQUESTED REPORT DATE		See QAPP
BELL TO: ASANDAND	LCS, DUP, MS/MSD as required)  III Results + QC and Calibration  Summarise	1 day2 day3 day3 day3 day		
INVOICE INFORMATION	REPORT REQUIREMENTS  L. Results Only	TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY)	TIONS/COMMENTS	SPECIAL INSTRUCTIONS/COMMENTS  Metals
			24	7
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	×		2 2 2 10 (08) 15 7 1   Saiwat	STOX - Q
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			Ìĕ	CLIENT S
8. Other  REMARKS/ ALTERNATE DESCRIPTION	% solu	GCMS VOAS • 8260 • 624 • 6 • 8270 • 625 GC VOAS • 8027 • 607/66 • 8081 • 608 • 8081 • 608 METALS, TOTA (List in Comme.)	195-9937 Christophus news Canterg rays com Sampler's Printed Name  National Argel	Phone # 914-495 Sampler's Signature
2. HNO3 2. HNO3 3. H2SO4 4. NaOH 5. Zn. Acetate 6. MeOH	nts below)	s 022 AL isis below)	Syracuse, NY 13214	
Preservative Key 0. NONE		as	VICURAL STANSING STAN	Company/Address
	_	PRESERVATIVE		

A
(ALS)

Cooler Receipt and Preservati

R1511222

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9/24/15

Antea USA In	c		
Queensbury.			
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Project/Clie	nt(14)	5	-a	11S.	F	older 1	Num	ber_							
Cooler receive	n /-	28/K		by:	MDS	(	COUI	RIER:	ALS	UPS	FEDEX	( VE	LOCITY	CLII	ENT
1 Were Cu	stody seals or	outsid	e of co	ooler?	0	N	5a	Perch	lorate	samples	have req	uired h	eadspace	?	Y
2 Custody	papers prope	rly com	pletec	i (ink, sig	med)?	N	5b	Did V	OA vi	als, Alk,o	r Sulfide	have s	ig* bub	bles?	Y
3 Did all bo	ottles arrive in	good c	onditi	ion (unbr	oken)?	N	6	Wher	e did th	ne bottles	originat	e?	ALS/	ROC	0
4 Circle: V	Vet Ice Dry	Ice (	Gel pa	cks pr	resent?	N	7	Soil V	OA re	ceived as	: Bu	ılk I	Encore	5035	set
8. Temperatur	e Readings	Da	te: [2-	128/1	Time:	.55	_	ID:	IR#3	IR#3		From	Temp	Blank	S
Observed Te	mp (°C)		4,9												T
Correction F	actor (°C)		_												
Corrected Te	mp (°C)		1.6												
Within 0-6°C			0	N	Y N		Y	N	Y	N	Y	N	Y	N	
If <0°C, were	e samples froz	en?	Y	N	Y N		Y :	N	Y	N	Y	N	Y	N	
If out of T	emperature,	note p	ackin	g/ice con	dition:		Į.	ce mel	ted	Poor	ly Packe	d	Sar	ne Day	/ Rn
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AST Decommissioning Report Former CIBA-GEIGY/HERCULES Plant Site Queensbury, New York Antea Group Project No. GLENSFA151



## Appendix F

**Waste Manifests** 

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA	A ID No.	D	lanifest ocument No	00/	2. Page 1 of
3. Generator's Name and Mailing Address			7.0		20100	
ANTEA	CIBA GEIGY/He	eroules Site				
	r Warren Street					
		4 518-433-3696				
5. Transporter 1 Company Name	1811 141 12110	6. US EPA ID Number	A	. State Trans	sporter's ID / A / (1)	
	Zamilana Ina	L REVISAURIEDEZES	-	. Transporte		25-6750
7. Transporter 2 Company Name	solvions me	8. US EPA ID Number		. State Tran		C 2 D ALIE.
7. Transporter 2 Company Name		I SO EL MID MAINES		. Transporte		
		10. US EPA ID Number				
9. Designated Facility Name and Site Address		10. US EPA ID Number	E	. State Facil	ity's ID	
Sient Tous Wart			-	N. HOLLES		
Shoeming KAR			F	. Facility's P	hone	
11. WASTE DESCRIPTION	31					-
11. WASTE DESCRIPTION			12. Contain	ners	13. Total Quantity	14 Uni Wt./\
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		14				
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NON-HAZARDOUS WASTE MANIFEST	1. Generator's US E	PA ID No.		Manifest Document N	o. were 002	2. Page 1 of
3. Generator's Name and Mailing Address					W. L. C. C. C.	
ANTEA	CIBA-GEIGYA	Tercules Site				
	er Warren Stree					
		304 518-433-3690				
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Tra	nsporter's ID	7
OP-TECH Engiroramental	Services Inc.	NYD986980753		B. Transport	er 1 Phone RYPE 2	25.6760
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Tra	nsporter's ID	
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9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Fac	ility's ID	ы
Grens Trans WART P						
Shatham man fan				F. Facility's	Phone	
3331 - MA 716 3211	7	f				
11. WASTE DESCRIPTION	//K		12. Co	ontainers	13.	14.
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G. Additional Descriptions for Materials Listed	Above			H. Handling		ve
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15. Special Handling Instructions and Addition	al Information					
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Emergency Response	# 800-225-675				inc.	Dit.
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NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.			Manifest Document	No003	2. Page 1 of
3. Generator's Name and Mailing Address					207 317	
ANTEA	CIBA-GEIGY/Hercul	lea Sike				
	er Warren Street					
	bury, NY 12804 5	19 333 3696				
5. Transporter 1 Company Name	6.	US EPA ID Number		A. State Tr	ansporter's ID	
	Conducting Inc.	YD980980753			A CONTRACTOR OF THE PARTY OF TH	26.417.00
7. Transporter 2 Company Name	GWEYKUTA WKY. N. 8.	US EPA ID Number		7.50	ansporter's ID	PART TOTAL
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	10.	US EPA ID Number				
9. Designated Facility Name and Site Address	10.	03 EFA ID Number		E. State Fa	CINITY S ID	
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11. WASTE DESCRIPTION			12. C	ontainers	13. Total	14. Unit Wt./V
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NON-HAZARDOUS WASTE MANIFEST	Generator's US EPA ID N	ło.		Manifest Document	No 404	2. Page 1 of
3. Generator's Name and Mailing Address					98750	
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4. Generator's Phone ( )	desire MA 1990A	Ein the anne				
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7. Transporter 2 Company Name	8.	US EPA ID Number			ansporter's ID	(51)
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Designated Facility Name and Site Address	10.	US EPA ID Number		E. State Fa	51.57 5	
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G. Additional Descriptions for Materials Listed A	bove			H. Handling	Codes for Wastes Listed Above	
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WASTE MANIFEST	Generator's US EPA ID	J 140.		Manifest Document I	40.	2. Page 1 of
3. Generator's Name and Mailing Address					201.00	
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	bury MY 12804	. US EPA ID Number	_	A State Tre	insporter's ID	av) a
5. Transporter 1 Company Name						
OP-TECH Environmental		MYD988989753		B. Transpor	- 1940	178 8760
7. Transporter 2 Company Name	8.	. US EPA ID Number			ansporter's ID	
				D. Transpor	ter 2 Phone	
9. Designated Facility Name and Site Address	V. //	0. US EPA ID Number		E. State Fac	cility's ID	
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I State un leis	which s			F. Facility's	Phone	
ores that my 1800	DIFF & MIST					
11. WASTE DESCRIPTION	1 1		12. C	ontainers	13. Total	U Wt
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G. Additional Descriptions for Materials Listed A	Above			H. Handling	Codes for Wastes Listed	Above
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15. Special Handling Instructions and Additiona	# 800-225-6750	OP-TECH Environm		ervices.	fric.	
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NON-HAZARDOUS WASTE MANIFEST  1. Generator's U	IS EPA ID No.		Manifest Document N	10. ARYRA - OUS	2. Page 1 of
3. Generator's Name and Mailing Address				86769	
ANTEA CIBA-GEIG	Y/I-tercules Site				
89 Lower Warren St					
4. Generator's Phone ( ) Queensbury, NY					
5. Transporter 1 Company Name	6. US EPA ID Number		A. State Tra	nsporter's ID 2/4/2/11	7
OP-TECH Environmental Services Inc.	NYD986980753		B. Transpor		26.6760
7. Transporter 2 Company Name	8. US EPA ID Number			nsporter's ID	2.3-21.221
7			D. Transpor	- W - 1	
Designated Facility Name and Site Address	10. US EPA ID Number		E. State Fac		
FLOWS FALLS WINT P DE TOWNS					
Z Shilman RR WINDER SI			F. Facility's	Phone	
GIERS FAILS WINT P BY LOWIE Z SLUMBER BR WARREN SI GIERS FAILS ON MIRESUL PURP FOURT					
11. WASTE DESCRIPTION		12. Co	ontainers	13.	14. Unit
		No.	Туре	Total Quantily	Wt./V
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			selection.	200 97907	
Non RCRA Not DOT Regulated Liqu	id (Tank T110 Water)	007	77	EST 3000	301
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C.					
d.					
G. Additional Descriptions for Materials Listed Above		-	H. Handling	Codes for Wastes Listed Abov	re
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3. Generator's Name and Mailing Address	and about the				211.7.0.0	
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	s Warren Stree					
	bury, NY 128	04 518 433 3696				
5. Transporter 1 Company Name		6. US EPA ID Number				4-7HF
OP TECH Environmental 1	Swivices Inc.	NYD986980753				10-225-8760
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Tr	ansporter's ID	
				D. Transpo	orter 2 Phone	
Designated Facility Name and Site Address	V01	<ol> <li>US EPA ID Number</li> </ol>		E. State Fa	acility's ID	
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G. Additional Descriptions for Materials Listed Ab	oove			H. Handling	Codes for Wastes Listed	Above
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15. Special Handling Instructions and Additional I	Information					
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in proper container for transport. The materials	o document on the manner		3			
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17. Transporter 1 Acknowledgement of Receipt of	f Materials					Date
Printed/Typed Name		Signature				Month Day
Cleh Mer						
18. Transporter 2 Acknowledgement of Receipt of	f Materials					Date
18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	f Materials	Signature				Month Day
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	f Materials	Signature				
Printed/Typed Name	f Materials	Signature				
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Printed/Typed Name			ed in item 19.			
Printed/Typed Name  19. Discrepancy Indication Space			ed in item 19.			Month Day

WASTE MANIFEST	Generator's US EPA ID No.			Manifest Document N	No.	2. Page 1 of
3. Generator's Name and Mailing Address					89300	- 1
ANTEA	CIBA GEIGY/Hercu	des Site				
	r Wanen Street	Man or children				
	bury, NY 12804 5	10 433 3000				
5. Transporter 1 Company Name	6.	US EPA ID Number		A. State Tra	insporter's ID	
OP TECH Engrapmental	Constant Inc.	VFIGURGS0283		B. Transpor	and the second s	8.E780
7. Transporter 2 Company Name	8.	US EPA ID Number		-	insporter's ID	5.5750
	T.			D. Transpor	ter 2 Phone	
9. Designated Facility Name and Site Address	10.	US EPA ID Number		E. State Fac		
	V / /W			2000		
Salar Francisco	64 A W / X / X / X / X / X / X / X / X / X /			F. Facility's	Phone	
54-CAR 14	55			117 doing 0	. Hono	
11. WASTE DESCRIPTION	1 - 2 - 0		12. Co	ontainers	T 13.	14.
The Market Beach in Figure			No.	Туре	13. Total Quanlity	14. Unit Wt./Vol
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and the second of the second		allegation of	245	77	88 18 11	Laur
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G. Additional Descriptions for Materials Listed Ab	oove			H. Handling	Codes for Wastes Listed Above	
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NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.		Manifest Document	No. 009	2. Page 1 of
3. Generator's Name and Mailing Address				301.00	
	JBA-GEIGY/Hercules Site				
89 Lower	Warren Street				
4. Generator's Phone ( )	ury, NY 12804 518-433-3696				
5. Transporter 1 Company Name	6. US EPA ID Numl	ber	A. State Tr	ansporter's ID	17.
OP-TECH Environmental S	ervices inc. NYD986980753		B. Transpo	rter 1 Phone Room	200 g 760
7. Transporter 2 Company Name	8. US EPA ID Numl	ber	C. State Tr	ansporter's ID	
			D. Transpo	rter 2 Phone	
9. Designated Facility Name and Site Address 🤝	T / 10. US EPA ID Num	ber	E. State Fa	cility's ID	
GHASTING WWITT BE	Acm C				
CHASTAINS WATER STATES AND THE STATE	22 SAIN		F. Facility's	Phone	
COL - 1 FAIL N & 12EV.	Original hours				
11. WASTE DESCRIPTION		12. Co	ontainers	13.	14. Uni
		No.	Туре	Total Quantity	Wt./
a.					
		(20)	71	En Pere you	3/1
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b.	come an endorse figure a rate abressed				
0				+	
c.					
d.				1 1	
G. Additional Descriptions for Materials Listed Above	ve		H. Handling	Codes for Wastes Listed Abo	ove
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b.			to:	d.	
15. Special Handling Instructions and Additional Inf	formation				
JOB NUMBER 08750	erlify that the contents of this shipment are fully and accurate described on this manifest are not subject to federal hazard			ine.	
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			-		Date
Printed/Typed Name	Signature	//	1.3	IN CALL I	
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17. Transporter 1 Acknowledgement of Receipt of N	Materials				Date
Printed/Typed Name	Signature			Mo	nth Day
Timod Typed Hame					
, miles , ypee rame					
18. Transporter 2 Acknowledgement of Receipt of N	Materials				Date
	Materials Signature			Мо	Date nth Day
18. Transporter 2 Acknowledgement of Receipt of N				Мо	
18. Transporter 2 Acknowledgement of Receipt of N Printed/Typed Name				Мо	
18. Transporter 2 Acknowledgement of Receipt of N				Мо	
18. Transporter 2 Acknowledgement of Receipt of N Printed/Typed Name				Мо	
Transporter 2 Acknowledgement of Receipt of No. Printed/Typed Name     Discrepancy Indication Space	Signature	as noted in item 10		Мо	
Transporter 2 Acknowledgement of Receipt of Normal Printed/Typed Name     Discrepancy Indication Space		as noted in item 19.		Мо	nth Day
18. Transporter 2 Acknowledgement of Receipt of N Printed/Typed Name  19. Discrepancy Indication Space	Signature	as noted in item 19.			

NON-HAZARDOUS  VASTE MANIFEST  1. Gene	erator's US EPA ID No.		Manifest Document N	0. 20760 - 010	2. Page 1 of
3. Generator's Name and Mailing Address				98750	
	EIGY/I-tercules Site				
89 Lower Warre					
	Y 12804 518-433-3696				
5. Transporter 1 Company Name	6. US EPA ID Number		A. State Tra	nsporter's ID	ili.
OP-TECH Environmental Services	Inc. NVD000930753		B. Transport		228 g ign
7. Transporter 2 Company Name	8. US EPA ID Number			nsporter's ID	2.00/2.01/2
7. Transporter 2 company rumo	I		D. Transpor		
Designated Facility Name and Site Address	10. US EPA ID Number		E. State Fac		
			-C-(3.4-A-)	4.0	
STORE STORE LU LOUIS	b 8		F. Facility's	Phone	
Z SLIEPAN SU	- 57				
11, WASTE DESCRIPTION	10,50	12. Co	ntainers	13.	.14.
TI. WASTE BESSTILL TION		No.	Туре	Total Quantity	Unit Wt./Vo
a.					
a.			5.50	D 8000	
Non RCRA Not DOT Regulated	Limit (Tack T110 Water)	66	1.1	Eri Jebe	578
	Cidino Ligitir 1110 liagicit				
b.					
				-	
C.					
			10-		
d.					
				Maria and a	
			H Handling	Codes for Wastes Listed A	hove
G. Additional Descriptions for Materials Listed Above				Codes for Wastes Listed A	5040
B	G.		B	C.	
i.	d		1.60	-4	
b.			15	(1)	
					_
15. Special Handling Instructions and Additional Information					
Emergency Response # 800-2	25-6750 OP-TECH Environn	mental Se	uvicas.	trio.	
JOB NUMBER 98750					
16. GENERATOR'S CERTIFICATION: I hereby certify that the in proper condition for transport. The materials described on the condition of transport.	e contents of this shipment are fully and accurately des on this manifest are not subject to federal hazardous w	cribed and are in aste regulations.	all respects		
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		cribed and are in	all respects	If Achiel	nonth Day Date
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NON-HAZARDOUS WASTE MANIFEST	Generator's US EP	A ID No.		Manifest Document N	o. noren - GII	2. Page 1 of
3. Generator's Name and Mailing Address	CIBA-GEIGY#-	d .			33730	
Generator's Phone ( )	DUNY, NET 128	6. US EPA ID Number		A. State Tra	nsporter's ID	17
OP-TECH Environmental	Services Inc.	NYD986989753		B. Transport		25%-41786
7. Transporter 2 Company Name	**************************************	8. US EPA ID Number		C. State Tra	nsporter's ID	
				D. Transpor	ter 2 Phone	
9. Designated Facility Name and Site Address	WIN 89	10. US EPA ID Number		E. State Fac	ility's ID	
Gans Tar Whil	Land Land					
Z St. 1 pm 1 . ( 5 13 1 NH 12861	Se peny	i		F. Facility's	Phone	
Good & TALL NY 12861	et Co.		1 12. Co	ontainers	13.	14. Unit
11. WASTE DESCRIPTION			No.	Туре	13. Total Quantity	Unit Wt./Vol
a.						
Non RCRA Not DOT Re-	gulated Liquid :	(Tank T1+0 Water)	), Car	19	Es : 300 go	-,4
b.						
C.						
d.			1			
u.						
				l'area		
G. Additional Descriptions for Materials Listed At	bove			H. Handling	Codes for Wastes Listed Ab	ove
Al.		·C		9	C	
				1//		
		4				
b.		d.		tr.	rd.	
	Information	d.		b.	d.	
15. Special Handling Instructions and Additional  16. GENERATOR'S CERTIFICATION: I hereby in proper condition for transport. The materia	#800-225-6750	OP-TECH Environme		orvices,		
15. Special Handling Instructions and Additional	#800-225-6750	this shipment are fully and accurately descri st are not subject to federal hazardous wast		orvices,	Inc.	Date Day V
15. Special Handling Instructions and Additional  16. GENERATOR'S CERTIFICATION: I hereby in proper condition for transport. The material	r certify that the contents of als described on this manife	OP-TECH Environme		orvices,	Inc.	Date onth Day Y
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WASTE MANIFEST	1. Generator's US EPA ID N	NO.		Manifest Document N	lo.	2. Page 1 of
3. Generator's Name and Mailing Address					90700	
	BA-GEIGY/Here	culos Site				
	Warren Street	William of States				
	ury NY 12804	519.433 3696				
5. Transporter 1 Company Name	6.	US EPA ID Number		A. State Tra	nsporter's ID	07
OP TECH Environmental Se	ervices inc	MYD088980753		B. Transpor	ter 1 Phone	225 6740
7. Transporter 2 Company Name	8.	US EPA ID Number			insporter's ID	
				D. Transpor		
9. Designated Facility Name and Site Address	A 10.	US EPA ID Number		E. State Fac	cility's ID	
6 min s will you	him hill			A	HI COLO	
	10 Y V			F. Facility's	Prione	
1			1 12 C	ontainers	13.	14.
11. WASTE DESCRIPTION			No.	Туре	Total Quantity	14. Unit Wt./V
			140,	Туре	Godiniy	31861
a.					1.77	
No. more and person	C-1- X 1 1 1 2 mm	A SECTION AND A SECTION	641	111	88 NIXI	100
Non RCRA Not DOT Reg	mare a Fidriia (19	rik 1110 Waler)	-	-		
b.						
						-41
			-			
C.						
			_	-		
d.						1
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				H Handling	Codes for Wastes Listed Al	nove
G. Additional Descriptions for Materials Listed Above	ve			n. nanuing	Codes for Wastes Listed At	,0ve
a.	C.			16	0	
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15. Special Handling Instructions and Additional Inf				b.	,et	
15. Special Handling Instructions and Additional Inf	formation					
15. Special Handling Instructions and Additional Inf	formation	OP-TECH Environme	intal Sc			
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15. Special Handling Instructions and Additional Inf	formation 800-225-6750 C			orvices,		
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NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EF	PA ID No.		Manifest Document N	lo.	2. Page 1 of
3. Generator's Name and Mailing Address	127100000					
	CIBA-GEIGY#					
	er Warren Stree					
4. Generator's Phone ( ) ON PORTS	bury, NY 128	04 518-433-3696				
5. Transporter 1 Company Name		6. US EPA ID Number			nsporter's ID 7A76	
OP-TECH Environmental	Services Inc.	NYD986960753		B. Transpor		25-5750
7. Transporter 2 Company Name		8. US EPA ID Number			insporter's ID	
				D. Transpor		
Designated Facility Name and Site Address	V 18 81	10. US EPA ID Number		E. State Fac	cility's ID	
Great Tout warf	Leeve to					
2 54 - 2	\$ 101			F. Facility's	Phone	
Granting per 1860	110					
11. WASTE DESCRIPTION			12. C	ontainers	13. Total Quantity	14. Unit
			No.	Туре	Quantity	Wt./Vo
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G. Additional Descriptions for Materials Listed A	Above			H. Handling	Codes for Wastes Listed Abo	ve
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NON-HAZARDOUS WASTE MANIFEST	Generator's US EPA ID N	No.		Manifest Document No	).	2. Page 1 of
3. Generator's Name and Mailing Address					98750	
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	Werren Street	-				
4. Generator's Phone ( )	mry NY 12804	518-433-3696				
5. Transporter 1 Company Name	6.	US EPA ID Number		A. State Tran	1200,1	1
OP-TECH Environmental 5		MVD080080763		B. Transporte	TO ALC:	DE KTEU
7. Transporter 2 Company Name	8.	US EPA ID Number		C. State Tran		
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WASTE MANIFEST	Generator's US EPA II	D No.		Manifest Document	No.	2. Page 1 of
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		tensa one				
4. Generator's Phone ( )	Warren Street	Pro con some		1.0		
5. Transporter 1 Company Name	ury, NY 1200	S. US EPA ID Number		A. State Tr	ansporter's ID	
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3. Generator's Name and Mailing Address					00/30	
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4. Generator's Phone ( ) QUISONS (AL	Iry, NY 12804					
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Generator's Name and Mailing Address	CIBA-GEIGYAH	areidae Oile			94750	
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		4 518-433-3696				
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Tr	ansporter's ID 7A.79)	r
OP-TECH Environmental 8	Services Inc.	NYD988989753			E2407-111	26.6280
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Tr	ansporter's ID	1771-79 27312
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9. Designated Facility Name and Site Address	181 65	10. US EPA ID Number		E. State Fa	cility's ID	
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E Street I'll	(0.0)			F. Facility's	Phone	
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11. WASTE DESCRIPTION			12. C	ontainers	13. Total	1/ Un
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G. Additional Descriptions for Materials Listed Abo				H. Handling	Codes for Wastes Listed Above	е
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NON-HAZARDOUS WASTE MANIFEST	Generator's US EPA ID No.			Manifest Document N	o. navko - 6,20	2. Page 1 of
3. Generator's Name and Mailing Address					00.40	
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	er Warren Street	10. 35035				
		N AND DANG				
5. Transporter 1 Company Name	shury, MY 12804 51	US EPA ID Number		A. State Trai	nsporter's ID /A /U/	
The second second second second	T.			B. Transport		e elven
OP TECH Engrenmental	Services Inc. I N Y	US EPA ID Number		0.0000000000000000000000000000000000000		FW150
7. Transporter 2 Company Name	8.	US EPA ID Number		C. State Trai		
				D. Transport		
9. Designated Facility Name and Site Address	6S V 77 10.	US EPA ID Number		E. State Fac	ility's ID	
y and the little of	A P MC ZP V					
2 54 - /	E comment			F. Facility's F	Phone	
11. WASTE DESCRIPTION			12. Co	ontainers	13. Total	14. Unit Wt./V
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G. Additional Descriptions for Materials Listed	d Above			H. Handling	Codes for Wastes Listed Above	
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45 Octobel Handling Instructions and Addition	not laformation					
15. Special Handling Instructions and Additio	hai information					
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18. Transporter 2 Acknowledgement of Recei	pt of Materials	Two				Date
Printed/Typed Name		Signature			Mont	n Day
19. Discrepancy Indication Space						
20. Facility Owner or Operator; Certification of	f receipt of the waste materials covered by	by this manifest, except as noted in	n item 19.			
20. Facility Owner or Operator; Certification of	f receipt of the waste materials covered by	by this manifest, except as noted in	n item 19.			Date
	of receipt of the waste materials covered b	by this manifest, except as noted in	n item 19.		Mont	
20. Facility Owner or Operator; Certification o	of receipt of the waste materials covered b		n item 19.		Mont	

NON-HAZARDOUS WASTE MANIFEST	Generator's US EPA ID No.			Manifest Document N	05750 0360 02	2. Page 1 of
3. Generator's Name and Mailing Address						
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89 Lower W	Amen Street					
4. Generator's Phone ( )	v. NY 12804 518	433-3696				
5. Transporter 1 Company Name	6.	US EPA ID Number		A. State Tran	nsporter's ID // / (1)	1
OP-TECH Environmental Sen	most too I NYD	986989753		B. Transport	er 1 Phone 300-2	25/67/00
7. Transporter 2 Company Name	8.	US EPA ID Number		C. State Trai		
7. Hallopered 2 semperity many	1			D. Transport	er 2 Phone	
O. Designated Families Name and City Address	10	US EPA ID Number		E. State Fac		
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G. Additional Descriptions for Materials Listed Above				H. Handling	Codes for Wastes Listed Abo	ve
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WASTE MANIFEST  3. Generator's Name and Mailing Address					118750 Odel	
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	CIBA-GEIGY/H					
	er Warren Street					
	bury NY 1280	4 518 433 3696		1017	4.1.15	
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Tran		
OP-TECH Environmental	Services Inc.	NYD938938783		B. Transporte		276-67671
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Tran	7	
				D. Transport		
9. Designated Facility Name and Site Address	89 Lower Warn	10. US EPA ID Number		E. State Faci	lity's ID	
Glene Falls WWTP 2 Sherman Town Read VI	b.1 Pothst math	n ott				
2 Sherman rown Item Vie	a Pump House			F. Facility's F	Phone	
Glens Falls, NY 12801						
11. WASTE DESCRIPTION			12. Co	ontainers	13. Total	14. Unit
			No.	Туре	Quantity	Wt./\
a.						
			Ant	TT	Est. 3000	gal
Non RCRA Not DOT Re	contatord Licenses C	Tank T110 Water)	001			
b.	STORING STANDING 1	1 301 515 A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-		
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NON-HAZARDOUS WASTE MANIFEST	Generator's US EPA ID No.		Manifest Document	No. 08750 083	2. Page 1 of	1
	CIBA-GEIGY/Hercules Site r Warren Street			70,100		
	Harry, NY 12804 518-433-3696					
5. Transporter 1 Company Name	6. US EPA ID Num	nber	A. State Tra	ansporter's ID //L	707	
OP-TECH Environmental 5	Services Inc. NYD938980753	1	B. Transpo	rter 1 Phone	1.725-6760	1
7. Transporter 2 Company Name	8. US EPA ID Num	ber	C. State Tra	ansporter's ID		
			D. Transpo	rter 2 Phone		
9. Designated Facility Name and Site Address Clean Fell's WWTP 2 Shroman Town Road VI	Pump House	nber	E. State Fa			
Glens Falls NY 12801	1		1. radiny s	THOME		
11. WASTE DESCRIPTION		12. C	ontainers	13.	Y	14. Jnit
		No.	Туре	Total Quantily	Wi	t./V
a. Non RCRA Not DOT Reg	julated Liquid (Tank T t 10 Water	001	TT	Est. 3000	90	cx l
b.						
C.						
d.					-	
	Had No.					_
G. Additional Descriptions for Materials Listed Abo				Codes for Wastes Listed A	Above	
2)	C		- 87	C.		
	a de		ļ.			
b.	d.		ti.	- 0.		
15. Special Handling Instructions and Additional Ir	nformation					
Emergency Response # JOB NUMBER 98750	800-225-6750 OP-TECH Envir	ronmental S	arvices,	Inc.		1
A STATE A TOPIC OF PATION I I I I I I I I I I I I I I I I I I	adiffully the contents of this shipment are fully and accura	toly described and are in	all respects			A
in proper condition for transport. The materials	erlify that the contents of this shipment are fully and accura s described on this manifest are not subject to federal hazar	dous waste regulations.	an respects			
					Date	_
Printed/Typed Name	Signature				Month Day	
Byan Reles of Antes Group on	behalf of Achland By Riby of	Ante Group of	a behalf	of Michland	11 09	
17. Transporter 1 Acknowledgement of Receipt of		1			Date	
Printed/Typed Name	Signature				Month Day	
	has L	14-m				
18. Transporter 2 Acknowledgement of Receipt of					Date	
Printed/Typed Name	Signature				Month Day	1
19. Discrepancy Indication Space						
20. Facility Owner or Operator; Certification of rec	eipt of the waste materials covered by this manifest, except	as noted in item 19.			Div	
					Date	

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.			Manifest Document No	00/50 BUH	2. Page 1 of
3. Generator's Name and Mailing Address						
	CIBA-GEIGY/Hercu	les Gile				
	r Warren Street					
	oury NY 12804 5	18-433-3696		Thousand as a		_
5. Transporter 1 Company Name	6.	US EPA ID Number		A. State Tran		
OP-TECH Environmental !		YD988980753		B. Transporte		25-6760
7. Transporter 2 Company Name	8.	US EPA ID Number		C. State Tran		
				D. Transporte		
9. Designated Facility Name and Site Address	55 ( 10. E	US EPA ID Number		E. State Faci	lity's ID	
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3 SPECKION LOWIN LEGALI ALV	Punip House			F. Facility's F	hone	
Glen Falls NY 12801			1 40 0	Martiness.	13.	14.
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b.						
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17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Date  Printed/Typed Name  Signature  Date  Date  Date	NON-HAZA WASTE MA		1. Generator's US I	EPA ID No.		Manifest Document No	98750 025	2. Page 1 of
8. Generator's Pione (Company Name Company N	3. Generator's Name and M	Nailing Address	CIRA-GEIGY/	Hercules Sile				
A. State Transporter For Commencial Services Inc.  C. Transporter Company Name CP LECH Environmental Services Inc.  CP LECH Environmental Services Inc.  Prince CP Lech Environmental Services Inc.  CP Lech Environmental Services Inc.								
A State Transporter 10 Annual Population (Property Name Company Name Company Name Ny 108 BPA ID Namber Ny 108 BPA ID Namber Company Name Company Nam	4. Generator's Phone (							
7. Transporter 2 Company Native  8. US EPA ID Number  C. Sales Transporter 10: D. Transporter 2 Pinnes  10. US CPA ID Number  E. Sale Transporter 10: D. Transporter 2 Pinnes  C. Sales Transporter 10: D. Transporter 2 Pinnes  E. Sale Transporter 10: D. Transporter 2 Pinnes  C. Sales Transporter 10: D. Transporter 2 Pinnes  E. Sale Transporter 10: D. Transporter 2 Pinnes  E. Sales Transporter 10: D. Transporter 2 Pinnes  E. Sales Transporter 10: D. Transporter 2 Pinnes  E. Sales Transporter 10: D. Transporter 2 Pinnes  E. Sales Transporter 10: D. Transporter 2 Pinnes  E. Sales Transporter 10: D. Transporter 2 Pinnes  E. Sales Transporter 10: D. Transporter 2 Pinnes  E. Sales Transporter 10: D. Transporter 2 Pinnes  E. Sales Transporter 10: D. Transporter 2 Pinnes  E. Sales Transporter 10: D. Transporter 2 Pinnes  D. Transporter 2 Pinnes		Name		<ol><li>US EPA ID Number</li></ol>		A. State Tran	isportor o is	
D. Transporter 2 Phone  D. Designated Facility Name and Sile Address  Glena Falls WVPP 2 Sherman (Cab Art. 89 Lover Warren St. 89 Lover Warren St. 80 Lover Warren St.	OP-TECH En	vironmental	Services Inc.	NYD986930763			a T I Hone	30-6700
B. Designator Facility Name and Site Address Glore Falls, WAYTP 2 Sherman Ribon, Rd. 39 Lower Watten St Glore Falls, W1/12801 Primp House T1. WASTE DESCRIPTION  B. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)  C. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)  C  C  C  d  J. H. Handing Codes for Wastes Listed Above T  J. Special Handing Instructions and Additional Information  Entergency Response // 300-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 03750  16. GENERATOR'S CERTIFICATION: I Revely certify that the curitative of file altiporan are fully and accurately described and see in all regulations.  Temporary Confidence of the Component of the Manual Environmental Services, Inc. JOB NUMBER 03750  17. Cerspentary Response // 300-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 03750  18. Signature  Filindad Typied Name  Enter Component of Receipt of Materials  Printed Typied Name  Signature  Signature  Signature  Signature  Signature  Signature  Signature  About Day  T1. Transportier Z-Addrowfodgmont of Receipt of Materials  Printed Typied Name  Signature  Signature  Signature  About Day  T1. Transportier Z-Addrowfodgmont of Receipt of Materials  Printed Typied Name  Signature  Signature  Signature  About Day  T1. Transportier Z-Addrowfodgmont of Receipt of Materials  Date  D	7. Transporter 2 Company	Name		8. US EPA ID Number		THE ART ARE	•	
Glens Falls WWRP 2 Sherman ROD Rd. 89 Lover Warren SI Clent Falls MY (280) 11. WASTE DESCRIPTION    No.   Type   Quentity   Win You   No.   Ty						PASTANATO ZIA		
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Non RCRA Not DOT Regulated Liquid (Tank T110 Water)  D.  G. Additional Descriptions for Materials Listed Above  G. Additional Descriptions for Materials Listed Above  G. Additional Descriptions for Materials Listed Above  G. H. Hardling Codes for Wastes Listed Above  G. D.  H. Hardling Codes for Wastes Listed Above  H. Hardling Codes for Wastes Listed Above  G. D.  H. Hardling Codes for Wastes Listed Above  H. Har			mb mense		С	ontainers	13.	14.
Do.  The St. Scool of T	THE WHOLE BEGONNE THE	*			No.	Туре	Total Quantity	Wt./Vol.
D.  G. Additional Descriptions for Materials Listed Above  G. Additional Descriptions for Materials Listed Above  H. Handling Codes for Wastes Usited Above  H. Handling Codes for Wastes Usited Above  G. D.  15. Special Handling Instructions and Additional Information  Emergency Response # 300-225-6750 OP-TECH Environmental Services, Inc.  JOB RUMBER 98/30  16. GENERATOR'S CERTIFICATION: I harrely certify that the contents of lists abhonent are fully and accordably described and are in all respects in peoper condition for transport. The materials described on lists manifest are not subject to federal hazardous waste regulations.  Frinted/Typed Name  British Andrea Grup on behalf of Additional Information  Signature  Date  Printed/Typed Name  Signature  Signature  Signature  Month Day  Y.  19. Discrepency Indication Space	a.				7/3		E. Sans	not
D.  G. Additional Descriptions for Materials Listed Above  1. General Descriptions for Materials Descriptions for Materials and Descriptions of Materials Descriptions of Materials Descriptions of Materials Descriptions of Materials Descriptions of Materials Descriptions of Pacciption Materials  1. Transporter 1 Additional Receipt of Materials  1. Transporter 1 Additional Receipt of Materials  1. Transporter 2 Additional Receipt of Materials  1. Discrepancy Indication Space  2. Facility Owner or Operator: Certification of roceipt of the weater materials covered by this manifest, except as noted in liter 18.	The second secon			Committee of the commit	001	F.T	FS4: 5000	de i
G. Additional Descriptions for Materials Listed Above  1. G. Additional Descriptions for Materials Listed Above  1. G. Additional Descriptions for Materials Listed Above  1. G. Additional Descriptions for Materials Listed Above  1. G. H. Handling Codes for Wastes Listed Above  1. G. General Handling Instructions and Additional Information  Enter genery Response # 890-225-6750 OP.TECH Environment are fully and accurately described and are in all respects  In project condition for beruport. The materials described on this manifest in red subject to foliant hazardous weets regulations.    Date   Printed Typed Name   Signature   Morrith   Date	Non RCRA I	Vot DOT Re	igulated Liquic	(Tank T110 Water)				
d.  G. Additional Descriptions for Materials Listed Above  1. H. Handling Codes for Waster Listed Above  1. C.  1. Special Handling Instructions and Additional Information  Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc.  1. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.  Printed Typical Name  Printed Typical Name  Signature  Signature  Month Day Y.  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed Typical Name  Printed Typical Name  Signature  Signature  Month Day Y.  18. Transporter 2 Acknowledgement of Receipt of Materials  Date  19. Discrepancy Indication Space  20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.  Date  Light Date  Month Day Y.  Light Date  Date	b.							
d.  G. Additional Descriptions for Materials Listed Above  1. Special Handling Instructions and Additional Information  Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc.  16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifed are not subject to federal hazardous wistor regulations.    Date   Da								
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G. Additional Descriptions for Materials Listed Above  11.  15. Special Handling Instructions and Additional Information  Emergency Response # 800-225-6/50 OP-TECH Environmental Services, line.  16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The meterials described on this manifest are not subject to federal hazardous waste negliations.  Printed/Typed Name  Signature  Month Date  Printed/Typed Name Signature  Signature  Month Day Y.  19. Discrepancy Indication Space	c.							
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16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.    Date								
15. Special Handling Instructions and Additional Information  Emergency Response #808-225-6759 OP-TECH Environmental Services, Inc.  JOB HUMBER 88.49  16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The meterials described on this manifest are not subject to federal hazardous waste regulations.  Printed/Typed Name  Signature  Month Day Ye  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Month Day Ye  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Month Day Ye  20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.	G. Additional Descriptions	for Materials Listed A	bove			H. Handling		/e
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to fedoral hazardous waste regulations.    Printed/Typed Name	21.			C.		0	C	
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15. Special Handling Instructions and Additional Information  Entropy (15. Special Handling Instructions and Additional Information 800-725-750 OP-TECH Environmental 800-725-750 OP-TECH 800-725-750 OP-TECH 800-725-750 OP-TECH 800-725-750 OP-TECH 800-725-750 OP-TECH 800-725-750 OP-TECH 800-725-750 OP-TECH 800-725-750 OP-TECH 800-725-750 OP-TECH 800-725-750 OP-TECH 800-725-750 OP-TECH 800-725-750 OP-TECH 800-725-750 OP-TECH 800-725-750 OP-TECH 80	h-			d		Fig.	el.	
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.    Date   Month   Day   Ye	U.					100	441	
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16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.    Date	JOB NUMB	ER 92750	0.000.000					
Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Month Day Ye  Signature  Month Day Ye  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Month Day Ye  19. Discrepancy Indication Space  20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.	0.00 11071114	-11						
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17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Month Day You  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Month Day You  20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.  Date				Cignoture			Mo	
17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name Signature Month Day Ye  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name Signature Month Day Ye  19. Discrepancy Indication Space  20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.  Date  Month Day Ye  Acknowledgement of Receipt of Materials  Date  Printed/Typed Name Signature  Date  Date  Date	Printed/Typed Name	de Grano ou	holast of Adolo	Signature	Adle 6	NUMBER DE L		
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Printed/Typed Name Signature Month Day You 19. Discrepancy Indication Space  20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.  Date  Month Day You  Month Day You  Date		7	t of Materials	t <sub>vi</sub>				Date
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Date Month Park V								
Month Day V	20. Facility Owner or Oper	ator: Certification of r	receipt of the waste materi	als covered by this manifest, except as	noted in item 19.			6.0
Printed/Typed Name Signature Month Day Y								
	Printed/Typed Name			Signature			Me	onth Day Yea

WASTE MANIFEST	Generator's US EPA ID No.			Manifest Document No	nuzra 026	2. Page of	1
3. Generator's Name and Mailing Address	CIBA-GEIGY/Horcula or Warren Street				130 1307		
4. Generator's Phone ( )	bury NV 12804 51						
5. Transporter 1 Company Name	6.	US EPA ID Number		A. State Tran	1272	97	
OP-TECH Environmental	Services Inc. NA	/T1088980753		B. Transporte	r 1 Phone RGG	2071-3671	11
7. Transporter 2 Company Name	8.	US EPA ID Number		C. State Tran	sporter's ID		
				D. Transporte	r 2 Phone		
9. Designated Facility Name and Site Address	10.	US EPA ID Number		E. State Facil	V		
2 Sherman Moon Rd. 89 ( Glens Falls NV13801 - Pu	Lorrer Warren St.			F. Facility's P			,
11. WASTE DESCRIPTION	4		No.	ntainers Type	13. Total Quantity		14. Unit Wt./Vol.
a. Non RCRA Not DOT Re	and the delication of A Weight	TALO Medica	001	TT	2.3		gal
b.	Christian Pilina Latin	FIRST SPERCES					
C.							
d.							
4.				11 Handling (	Codes for Wastes Listed Ab	oug	_
G. Additional Descriptions for Materials Listed A	Above			H. Handling C		ove	
n.	c			Δ.	C.		
6	d.			b.	d.		
15. Special Handling Instructions and Additional	I Information	TECH Environmer	ital S				
15. Special Handling Instructions and Additional	I Information # 800-225-6750 QP			ervicos,			
15. Special Handling Instructions and Additiona	I Information # 800-225-6750 QP			ervicos,			
15. Special Handling Instructions and Additional	I Information # 800-225-6750 QP			ervicos,		Dat	e
15. Special Handling Instructions and Additiona  16. GENERATOR'S CERTIFICATION: I hereby in proper condition for transport. The materi	I Information # 800-225-6750 QP	nt are fully and accurately described ubject to federal hazardous waste re		ervicos,	Inc.	Dat Month Da	
15. Special Handling Instructions and Additional  16. GENERATOR'S CERTIFICATION: I hereby in proper condition for transport. The material Printed/Typed Name	I Information  y certify that the contents of this shipme als described on this manifest are not s			ervicos,	Inc.		y Ye
15. Special Handling Instructions and Additiona  16. GENERATOR'S CERTIFICATION: I hereby in proper condition for transport. The material Printed/Typed Name	I Information  y certify that the contents of this shipme als described on this manifest are not s	nt are fully and accurately described ubject to federal hazardous waste re		ervicos,	Inc.		y Ye
15. Special Handling Instructions and Additional  16. GENERATOR'S CERTIFICATION: I hereby in proper condition for transport. The material Printed/Typed Name  17. Transporter 1 Acknowledgement of Receip	I Information  y certify that the contents of this shipme als described on this manifest are not s	nt are fully and accurately described ubject to federal hazardous waste re		ervicos,	Tal Ashland	Month Da	y You
15. Special Handling Instructions and Additiona  16. GENERATOR'S CERTIFICATION: I hereby in proper condition for transport. The material Printed/Typed Name	I Information  y certify that the contents of this shipme als described on this manifest are not s	nt are fully and accurately described ubject to federal hazardous waste re		ervicos,	Tal Ashland	Month Dat  Dat  Month Da	y You
15. Special Handling Instructions and Additional  16. GENERATOR'S CERTIFICATION: I hereby in proper condition for transport. The material Printed/Typed Name  17. Transporter 1 Acknowledgement of Receip	y certify that the contents of this shipme als described on this manifest are not s	nt are fully and accurately described ubject to federal hazardous waste re		ervicos,	Tal Ashland	Month Da	e Ye
15. Special Handling Instructions and Additional  16. GENERATOR'S CERTIFICATION: I hereby in proper condition for transport. The material Printed/Typed Name  17. Transporter 1 Acknowledgement of Receip Printed/Typed Name	y certify that the contents of this shipme als described on this manifest are not s	nt are fully and accurately described ubject to federal hazardous waste re		ervicos,	Inc.	Month Dat  Dat  Month Da	e Ye
15. Special Handling Instructions and Additiona  16. GENERATOR'S CERTIFICATION: I hereby in proper condition for transport. The material Printed/Typed Name  17. Transporter 1 Acknowledgement of Receip Printed/Typed Name	y certify that the contents of this shipme als described on this manifest are not s	nt are fully and accurately described ubject to federal hazardous waste residunce.		ervicos,	Inc.	Month Da Dat Month Da	e Ye
15. Special Handling Instructions and Additional  16. GENERATOR'S CERTIFICATION: I hereby in proper condition for transport. The material Printed/Typed Name  17. Transporter 1 Acknowledgement of Receip Printed/Typed Name  18. Transporter 2 Acknowledgement of Receip Printed/Typed Name	y certify that the contents of this shipme als described on this manifest are not set of Materials	nt are fully and accurately described ubject to federal hazardous waste residunction.  Signature  Signature  Signature	and are in gulations.	ervicos,	Inc.	Month Da Dat Month Da	e Ye
15. Special Handling Instructions and Additional  16. GENERATOR'S CERTIFICATION: I hereby in proper condition for transport. The material Printed/Typed Name  17. Transporter 1 Acknowledgement of Receip Printed/Typed Name  18. Transporter 2 Acknowledgement of Receip Printed/Typed Name  19. Discrepancy Indication Space	y certify that the contents of this shipme als described on this manifest are not set of Materials	nt are fully and accurately described ubject to federal hazardous waste residunction.  Signature  Signature  Signature	and are in gulations.	ervicos,	Inc.	Month Da Dat Month Da	e e Yes

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.			Manifest Document No	98750	2. Page 1 of
3. Generator's Name and Mailing Address	CIBA-GEIGY/Hercul	os Site				
	Warren Street	0 400 2000				
	ury, NY 1/2804 51	US EPA ID Number		A. State Tran	sporter's ID	97
5. Transporter 1 Company Name		YD986980753		B. Transporte	16.36.00	225.6760
7. Transporter 2 Company Name	8.	US EPA ID Number		C. State Tran		
, talapana a tangang	1			D. Transporte	r 2 Phone	
9. Designated Facility Name and Site Address	10,	US EPA ID Number		E, State Facil		
2 Sherman RD 89 Lo Glens Falls NY12801 Pum	byer Warren St b House			F. Facility's P		
11. WASTE DESCRIPTION		1	No.	ntainers Type	13. Total Quantity	14. Uni Wt./V
Non RCRA Not DOT Reg	julated Liquid (Tank	7110 Water)	1	TT	~ 3000	901
<b>b.</b>	X					
C.	X					
d.						
G. Additional Descriptions for Materials Listed Abo	ove	17		H. Handling (	Codes for Wastes Listed Ab	ove
a	C.	120		α.	c	
b.	d.			D,	d.	
15. Special Handling Instructions and Additional In	37 1 1	-YECH Environme	ental S	ervices,	Inc.	
JOB NUMBER 98750			_			
16. GENERATOR'S CERTIFICATION: I hereby c in proper condition for transport. The materials	ertify that the contents of this shipm s described on this manifest are not s	ent are fully and accurately describ subject to lederal hazardous waste	ed and are in regulations.	all respects		
		1				Date
Printed/Typed Name Bryan Roles of Anto Grosp on	behalf of Ashland	Signature Bry Rib of Mar	ten Grov	o en bel	all of Ashland	Month Day
the state of the state of the state of						
17. Transporter 1 Acknowledgement of Receipt of	f Materials					Date
17. Transporter 1 Acknowledgement of Receipt o Printed/Typed Name		Signature			1	Month Day
17. Transporter 1 Acknowledgement of Receipt o						Month Day Date
17. Transporter 1 Acknowledgement of Receipt o Printed/Typed Name		Signature	1 2/	()		Month Day
17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Recei						Month Day Date
Transporter 1 Acknowledgement of Receipt of Printed/Typed Name     Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	of Materials	Signature	n item 19.			Month Day Date

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.		Manifest Document No	0.	2. Page 1 of	
3. Generator's Name and Mailing Address				this i suit		
ANTEA C	IRA-GFIGVA-tercules Site					
89 Lawer	tBA-GEIGYA-tercules Site Warren Street					
4. Generator's Phone ( )	Warren Street 6. US EPA ID Numbe					
5. Transporter 1 Company Name	6. US EPA ID Numbe	ir.	A. State Tran	nsporter's ID	07	
OP TECH Equiropmental Se	envices Inc NYD988989753		B. Transporte	er 1 Phone gnn.	996,6760	
7. Transporter 2 Company Name	8. US EPA ID Numbe	ır	C. State Tran	nsporter's ID		
W. C.			D. Transporte	er 2 Phone		
Designated Facility Name and Site Address	10. US EPA ID Numbe	er	E. State Faci	ility's ID		
Charles and Charles and Control of the Control of t						
Glens Falls WAVIP VIA			F. Facility's F	Phone		
2 Sherman RD 89 Lo	wer Waren St		1			
Glens Falls VAVTP VIA 2 Sherman RD 89 Lo 11. WASTE DESCRIPTION	o House	Cr	ontainers	13.	14	4.
II. WASTE DESCRIPTION		No.	Туре	13. Total Quantity	Ui Wt./	nit ∕Vol.
			178.5			
a.		1100	erana.	70. 5 6	e ga	1
	Secretaria de la Constante de C	1.30	TT	~ 3000 gab	34	4.8.
The second secon	ulated Liquid (Tank T110 Water)	-			_	
b.						
						1
			-	-	_	-
c.						
			7			
d.						
G. Additional Descriptions for Materials Listed Abor	ve		H. Handling	Codes for Wastes Listed Ab	oove	
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0.	W-					
b.	0.		b.	0		
100						
JOB NUMBER 98750	ertify that the contents of this shipment are fully and accurated described on this manifest are not subject to federal hazardo			Inc.		7 /
					Date	
Printed/Typed Name	Signature			,	Month Day	Yea
Bryan Relis of Anien Group on be	that of Ashland Ray Rls of	Antea Group	no behalf	Cof Ashland	11 23	20
17. Transporter 1 Acknowledgement of Receipt of	Materials	111111111111111111111111111111111111111			Date	
Printed/Typed Name	Signature	1 /	1		Month Day	Yea
Timed-typed reams	11/1/	1 62	/.		11 70	1-5
18. Transporter 2 Acknowledgement of Receipt of	f Materials	- /	1		Date	
	Signature		/	1	Month Day	Yea
Printed/Typed Name	- Olgitation					
19. Discrepancy Indication Space						
	sint of the weeks materials sovered by this manifest, event of	s noted in item 10				
20. Facility Owner or Operator: Certification of reco	eipt of the waste materials covered by this manifest, except a	.5 noted in item 19.		_		
					Date	
	Tour so				Date Month Day	Vac
Printed/Typed Name	Signature			- 1	Date  Month Day	Yea 

WASTE MANIFEST	Generator's US EPA ID No.			Manifest Document No	98750		Page 1 of	
3. Generator's Name and Mailing Address	one amount of	with .			00190			
	HBA-GETGY/Hercul- Warren Street	0.9 (5)(0)						
4. Generator's Phone (	ury, NY 12804 5	10 433 3606						
5. Transporter 1 Company Name	6.	US EPA ID Number		A. State Trans	sporter's ID	197		
OP. TECH Equironmental S	larvices Inc. 141	VI)QRAQRAŽŠI		B. Transporte	1 Phone	1,556.6	1760	
7. Transporter 2 Company Name	8.	US EPA ID Number		C. State Trans				
			_	D. Transporte	r 2 Phone			
9. Designated Facility Name and Site Address	10.	US EPA ID Number		E. State Facil	ty's ID			
Giens Falls VAVTP VIA 2 Sherman RD 89 L	over Warren St			F. Facility's P	none			
11. WASTE DESCRIPTION	rp House		Co	ntainers	13.		14.	
11. WASTE BESONIF HON			No.	Туре	Total Quantity		Unit Wt./Vo	ol.
a.							,	
			1	TT	~ 3000 gal	BP	gal	9
Mon RCRA Not DOT Rec	aslated Liquid (Tank	T110 Water)			NJ.			
b.	, , , , , , , , , , , , , , , , , , , ,							
				2.1				
C.								
						- 4		
11								_
d.				11				
G. Additional Descriptions for Materials Listed Abo	ove		-	H. Handling (	Codes for Wastes Listed A	bove		
G. Additional Descriptions for Materials Ested 715					E.			
a	C.			a.	NA.			
b.	d.			b.	41.			
12.								
TATE OF THE PARTY								
<ol><li>Special Handling Instructions and Additional I</li></ol>	nformation							
15. Special Handling Instructions and Additional I	nformation							
		TECH Environme	ntal S	ervices.	lnc.			
Emergency Response		TECH Environme	ntal S	ervices,	lnc.			
		TECH Environme	ntal S	orvices,	Inc.			
Emergency Response of JOB NUMBER 98750	#800-225-6750 OP				Inc.			
Emergency Response of JOB NUMBER 98750	#800-225-6750 OP				lnc.			
Emergency Response	#800-225-6750 OP				inc.		Date	
16. GENERATOR'S CERTIFICATION: I hereby of in proper condition for transport. The material	#800-225-6750 OP	nent are fully and accurately describe subject to federal hazardous waste				Month	Date Day	Year
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NON-HAZARDOUS WASTE MANIFEST	Generator's US EPA ID N	NO.		Manifest Document N	o. 98750	2. Page 1 of
3. Generator's Name and Mailing Address						
ANTEA	CIBA GEIGY#Hero	ules Site				
	Warren Street					
	ury NY 12804	E40 400 0000				
				1000	- 1 CM - 24 W	vvi -
5. Transporter 1 Company Name	6.	US EPA ID Number		A. State Trai	0.00 - 1.00 - 1.00	
OP-TECH Environmental 5	Services Inc.	N YD080980753		B. Transport	er 1 Phòne HOG	225-6760
7. Transporter 2 Company Name	8.	US EPA ID Number		C. State Tra	nsporter's ID	
				D. Transport	er 2 Phone	
9. Designated Facility Name and Site Address	10.	US EPA ID Number		E. State Fac	ilitv's ID	
				1.00		
Glens Falls VAVTP VIA 2 Sherman RD 89 L				F. F. Made C	No. of the second	
2 Sherman#(D 89 L	over Warren St			F. Facility's F	none	
Glens Falls NY12801 Pun	ar House					
11. WASTE DESCRIPTION	*		Co	ontainers	13.	14
			No.	Туре	13. Total Quantity	Ur Ur Wt./
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				Highlan.	5.41	991
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Non RCRA Not DOT Reg	financa ridina filar	NY TELL ANGLOLD				
b.						
C.						
d.						
						- 3
			1			
G. Additional Descriptions for Materials Listed Ab	ove			H. Handling	Codes for Wastes Listed Ab	ove
				Ð.	C	
A	C.			11.	Ar.	
	d.			Y-2	-4	
Ď.	d.			b_	d	
b.	d.			b	d	
15. Special Handling Instructions and Additional In			_	b	d	
				b	d	
15. Special Handling Instructions and Additional In	nformation	n Teau Suntainmen	intel D			
15. Special Handling Instructions and Additional In	nformation	P-TECH Environme	intal Sc			
15. Special Handling Instructions and Additional In	nformation	P-TECH Environme	ental Sc			
15. Special Handling Instructions and Additional In	nformation	P-TECH Environme	ental Sc			
15. Special Handling Instructions and Additional In	nformation  / 800-225-6750 O			arvices,		
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WASTE MANIFEST	Generator's US EPA ID No.			Manifest Document No.	98759	2. Page of	1
3. Generator's Name and Mailing Address	DBA-GEIGY/Hercule	s Sito					
	Warren Street						
	ury, NY 12804 51	8-433-3696					
5. Transporter 1 Company Name	6.	US EPA ID Number		A. State Trans	porter's ID	11	
OP-TECH Environmental S		D986980753		B. Transporter	1 Phone	375-575	II
7. Transporter 2 Company Name	8.	US EPA ID Number		C. State Trans	porter's ID		
7. Hampster 2 Pempary Carry				D. Transporte	2 Phone		
9. Designated Facility Name and Site Address	10.	US EPA ID Number		E. State Facili	ty's ID		
Olons Fally VAVITP VIA 2 Sherman RD 89 L	ower Warren St			F. Facility's Ph	none		
Glens Falls NY (2801 Pun	th House		T co	ontainers	13.		14. Unit
11. WASTE DESCRIPTION			No.	Туре	13. Total Quantity		Unit Wt./Vd
			7				
a.			1	TT	7 3000		991
Non RCRA Not DOT Re-	gulated Liquid (Tank	T110 Water)				2	4
b.							
5.					V.	- 140	
C.							
			4				
d.							
				1111			
G. Additional Descriptions for Materials Listed Ab				The second second	Codes for Wastes Listed Ab	oove	
a.	C.			B	6.		
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fv.	c)			2.3	9.4		
fy.	d			t).	u.		
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15. Special Handling Instructions and Additional				D.	· ·		
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15. Special Handling Instructions and Additional	Information	-TECH Environme	ntai S				
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15. Special Handling Instructions and Additional	Information	TECH Environme	entai S				
15. Special Handling Instructions and Additional	Information # 800 - 225 - 6750 OP			orytons,			
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WASTE MANIFEST	Generator's US EPA ID No.			Manifest Document No	98750	2. Page 1 of
89 Lower	CIBA-GEIGY/Herculer r Warren Street oury: NY 12804 51					
The second control of the second control of		US EPA ID Number		A. State Tran	sporter's ID	W.
5. Transporter 1 Company Name	Services Inc.   1 NO	VI)036030753		B. Transporte	P.000	225 8760
	8.	US EPA ID Number	-	C. State Tran	a 1 Tallette	25,400,100
7. Transporter 2 Company Name	, I	OG EL A ID NUMBER		D. Transporte		
Designated Facility Name and Site Address	10.	US EPA ID Number		E. State Facil		
Glens Falls VVVTP VIA 2 ShermaniRD 88 L	over Waren St np House			F. Facility's P	hone	
11. WASTE DESCRIPTION	19-110-03-0		No.	ntainers Type	13. Total Quantity	14 Uni Wt./V
a. Non RCRA Not DOT Reg	rolated Liquid (Tank	T110 Water)	1	TT	~ 3000	991
b.						
С.						
d.						
G. Additional Descriptions for Materials Listed Abo	ove			H. Handling (	Codes for Wastes Listed At	oove
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print or type (Form designed for use on elit NON-HAZARDOUS WASTE MANIFEST	te (12 pitch) typewriter)  1. Generator's US EPA ID	No.		Manifest Document No.	21750	2. Page 1 of
3. Generator's Name and Mailing Address	ALTER CONTRACTOR	i mir				
	CIBA-GEIGY/Her	Cinea fille				
	waren Street	enter heart where				
	bury, NY 12804				75.120	
5. Transporter 1 Company Name	6.			A. State Transpo	VIII III III III III III III III III II	e estro.
OP-TECH Environmental 5		NVD986980753		B. Transporter 1		pop rou
7. Transporter 2 Company Name	8.	US EPA ID Number		C. State Transpo		
- P - 102 Killion	10	D. US EPA ID Number		D. Transporter 2  E. State Facility's		
9. Designated Facility Name and Site Address		). US EFA ID Nulliber		E. State Facility s	, ID	
	Jover Warren St			F. Facility's Phor	10	
Glens Falls NY12801 Por				1.1 domy 51 hor		
11. WASTE DESCRIPTION	ub conne		1 12. C	ontainers	13. Total	14.
II. WASTE DESCRIPTION			No.	Туре	Total Quantily	14. Unit Wt./V
a.					Sec	
				3 %	7 7 7 7	6
Non RCRA Not DOT Re-	guisted Liquid (Ta	mk T110 Water)		(T 468)	3.770	0
b,						1
Č.						
				1 1		
d.						
				1 1		
						1
G. Additional Descriptions for Materials Listed Ab	oove			a character contraction	es for Wastes Listed Above	
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b -	d			b.	ct.	
D.				3.7.	10.	
15. Special Handling Instructions and Additional	Information					
		OB. TECH Environm	marked the	and our Year	6 -	
Westernament and a Westernamen of	REPART OF STREET					
Emergency Response	#800-225-6750 4	OL-TERM PHANDING	CARROLL CO.	or yecos, mis	100	
Emergency Response ( JOB NUMBER 98759	#800-225-6750 (	01-1 EC15 FIIVIIVIIII	Creeking Co.	91 YICO9, 311		
	#800-225-6750			orvices, mi		
JOB NUMBER 98759						
JOB NUMBER 98759						Date
JOB NUMBER 98759					Month	
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WASTE MANIFEST	1. Generator's US EP	A ID No.		Manifest Document No.	ustren	2. Page 1 of
3. Generator's Name and Mailing Address				-	1942.7.1415	
ANTEA	CIBA-GEIGY/H	ercules Site				
	r Warren Stree					
		04 518 433 3696				
5. Transporter 1 Company Name	72.51	6. US EPA ID Number		A. State Trans	porter's ID	17
OP-TECH Environmental S	Services Inc	NYD886680753		B. Transporter		
7. Transporter 2 Company Name	-14145 A. H.W.	US EPA ID Number				225-6760
		SS EL A IB NUMBER		C. State Trans	O. M. S. C. P. L. S.	
9. Designated Facility Name and Site Address		10. US EPA ID Number		D. Transporter		
Glens Falls VAVITP VIA		10. US EFA ID Number		E. State Facility	/s ID	
2 Sherman RD 80 Lo Glens Falls NY12801 Pum	ower Warren St. to House			F. Facility's Pho	one	
11. WASTE DESCRIPTION			Co	ontainers	19	1 4
			No.	Туре	13. Total	Ui Wt./
a.			140.	Туре	Quantity	Wt./
Non RCRA Not DOT Reg	ushded Limit /	Tank T110 Waters	1	TT 1		96
b.	general tridition (	THE CALL BUILDING				1
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3.)						
			100			1/4
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2 Addison 1 Section 2			1			
<ol> <li>Additional Descriptions for Materials Listed Abov</li> </ol>	ve			H. Handling Coo	les for Wastes Listed Above	9
a.		C		23	(:	
14		d.				
15.				b	13	
			1			
	ormalian					
<ol><li>Special Handling Instructions and Additional Info</li></ol>	ormation					
		OP.TECH Environme	ented file	undone in	ar-	
Emergency Response #		OP-TECH Environme	ntal S	wvlces, in	e.	
		OP-TECH Environme	otal S	nvicos, in	C.	
Emergency Response #		OP-TECH Environme	ntal S	rvices, in	ic.	:
Emergency Response # JOB NUMBER 98750	800-225-6750				ic.	
Emergency Response #	800-225-6750				ic.	127
Emergency Response # JOB NUMBER 98750	800-225-6750				ic.	Date
Emergency Response # JOB NUMBER 98750	800-225-6750	shipment are fully and accurately describe re not subject to federal hazardous waste				Date
5. GENERATOR'S CERTIFICATION: I hereby cert in proper condition for transport. The materials d	800-225-6750		d and are in a regulations.	all respects	Mont	h Day
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# NON-HAZARDOUS WASTE

WASTE MANIFEST	1. Generator's US EPA ID No.		Manifest Document No.	98750	2. Page 1 of
3. Generator's Name and Mailing Address	CIBA-GEIGY/Hercules Site r Warren Street oury, NY 12804 518-433-3696				
Transporter 1 Company Name	6. US EPA ID Number		A. State Transpor	rter's ID	7
OP-TECH Environmental S			B. Transporter 1		MS-6750
7. Transporter 2 Company Name	8. US EPA ID Number		C. State Transpo	rter's ID	
a commence and a second a second and a second and a second and a second and a second a second and		D. Transporter 2	Phone		
9. Designated Facility Name and Site Address	10. US EPA ID Number		E. State Facility's	ID	
Glens Falls VAVIP VIA 2 Sherman RD 69 Lo Glens Falls NY12801 Pum	ovier Warren St		F. Facility's Phon	е	
11. WASTE DESCRIPTION	18.	No.	ontainers Type	13. Total Quantity	14. Unit Wt./Vol.
		140.	туре	Quarinty	VVI./ VOI.
Non RCRA Not DOT Reg	gulated Liquid (Tank T110 Water)	1	77.2-	3000	ant.
b.	3				
C.					
d.					
2 1 15 15 17 1 11 11 11 11 11 11			U. Handling Code	es for Wastes Listed Abov	0
G. Additional Descriptions for Materials Listed Abov	Ŭ. ≥		A. Handing Code	C C Wasies Listed Abov	6
83 ·	d.		b.	rt.	
15. Special Handling Instructions and Additional Ind	# 800-225-6750 OP-TECH Environ	mental S	ervices, In	c.	
16. GENERATOR'S CERTIFICATION: I hereby coin proper condition for transport. The materials	ertify that the contents of this shipment are fully and accurately deducted described on this manifest are not subject to federal hazardous w	scribed and are invaste regulations.	all respects		
16. GENERATOR'S CERTIFICATION: I hereby ce in proper condition for transport. The materials  Printed/Typed Name	described on this manifest are not subject to federal nazardous w	vaste regulations.	all respects	Late of Allan	Th VIB 1 2011
in proper condition for transport. The materials  Printed/Typed Name	described on this manifest are not subject to federal nazardous w	vaste regulations.	1	Late of Allan	nth Day Year
Printed/Typed Name	described on this manifest are not subject to federal nazardous w	vaste regulations.	1	LAP of A LA	nih Day Year Date
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Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of	Signature  Materials  Signature	vaste regulations.	1	Late of Athlen	Date  Date  Date  Date
Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name  19. Discrepancy Indication Space	Signature  Materials  Signature	Aste regulations.	1	Late of Athlen	Date  Date  Date  Date

NON-HAZARDOUS WASTE MANIFEST	Generator's US EPA ID No.	*		Manifest Document No.	98750	2. Page 1 of
69 Layer	CIBA-GEIGY/Hercu Warren Street					
	ury, NY 12804 5				- 75 A	
5. Transporter 1 Company Name	6.	US EPA ID Number		A. State Transp	5000	
OP-TECH Environmental S		(YD086080753		B. Transporter 1	1 Hone	725-6750
7. Transporter 2 Company Name	8. I	US EPA ID Number		C. State Transp		
				D. Transporter 2		
9. Designated Facility Name and Site Address	10. ower Warren St	US EPA ID Number		E. State Facility		
	n House			F. Facility a Filo	ne	
11. WASTE DESCRIPTION	ib Donasi		I Co	ontainers	13.	1 14
Tharmore Besselling.			No.	Type	13. Total Quantity	14. Uni Wt./V
a.			140.	Туре	Quantity	*****
Non RCRA Not DOT Reg	sulated Liquid (Tan)	K T110 Weter)	1	77 3.	- 3000	301
b.						
С.		) \$				
d.						
G. Additional Descriptions for Materials Listed Above	10			Li Handling Coc	des for Wastes Listed Above	
d. Additional Descriptions for inlaterials distent Addi	C.	· y		H. Handling Cod	ies for Wastes Listed Abov	Э
6,	xt.			b	ci.	
15. Special Handling Instructions and Additional Inf  16. GENERATOR'S CERTIFICATION: I hereby cein proper condition for transport. The materials of	# 899-225-6750 OF				ic.	
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Printed/Typed Name	behalf of Achland	Signature	lea Carroup	as belieft	I Alland I	Date
17. Transporter 1 Acknowledgement of Receipt of		, w J 10 was	The Later of	01. 444.617	A Transfer	Date
Printed/Typed Name	95.Vaniye	Signature	20		Mon	
18. Transporter 2 Acknowledgement of Receipt of I	Materials					Date
Printed/Typed Name		Signature			Mon	th Day \
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of recei	pt of the waste materials covered b	y this manifest, except as noted	in item 19.			Date
Printed/Typed Name		Signature			Mon	th Day

# NON-HAZARDOUS WAS

WASTE MANIFEST	1. Generator's US EPA ID No.		Manifest Document		2. Page 1 of
3. Generator's Name and Mailing Address				90130	:
ANTEA	CIBA-GEIGY/Herculos	: Siller	17		
	r Warren Street				
	bury MY 12804 518				
5. Transporter 1 Company Name	6.	US EPA ID Number	A. State Tr	ansporter's ID	
OP-TECH Environmental	Samione Inc. NAT	YORROWNYS V	B. Transpo	rter 1 Phone	KLEYED.
7. Transporter 2 Company Name	8.	US EPA ID Number	C. State Ti	ansporter's ID	
	1		D. Transpo	orter 2 Phone	
9. Designated Facility Name and Site Address	10.	US EPA ID Number	E. State Fa	acility's ID	
	2,20	4			
Giens Falls MANTE VIA			F. Facility's	Phone	
2 Sherman RD 89 L	.ovver Warren St				
11. WASTE DESCRIPTION	rep House	Ref	Containers	13.	14.
II. WASTE DESCRIPTION	-21		No.   Type	13. Total Quantity	14. Unit Wt.//o
a.			2 1-1-1	500	1
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Non RCRA Mol DOT Re	gulated Liquid Clarik I	TID Water)		+	1
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c.	46		y.		
A	32	Q-1	W 195		4
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d	~~	a de la companya de l	6		A
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G. Additional Descriptions for Materials Listed Ab	pove	*	H. Handlir	g Codes for Wastes Listed Above	
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	d.		17	Cl.	
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15. Special Handling Instructions and Additional	Information	7			
	information	-iv			
15. Special Handling Instructions and Additional		To M Sandrawarand	at the purchase	r Inc.	
15. Special Handling Instructions and Additional		ÉCH Environment	at Services	i, liide	
15. Special Handling Instructions and Additional		ÉCH Environment	at Services	i, tric.	
15. Special Handling Instructions and Additional		ÉCH Environment	at Services	i, liid.	
15. Special Handling Instructions and Additional I	#800-225-/50 OP-T		7/3/2	i, liid.	
15. Special Handling Instructions and Additional I	#800-225-/50 OP-T		7/3/2	i, liioe	
15. Special Handling Instructions and Additional	#800-225-/50 OP-T		7/3/2	i, ling.	Date
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15. Special Handling Instructions and Additional I	certify that the contents of this shipment is described on this manifest are not subject of Materials	are fully and accurately described ar lect to federal hazardous waste regularies.  Signature  Signature  Signature	nd are in all respects lations.	Mont Mont Mont	Date h Day  Date h Day  Date h Day

# NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST	Generator's US EPA ID No.	э.		Manifest Document No.		2. Page 1 of
3. Generator's Name and Mailing Address					00760	.01
ANTEA	CIBA-GEIGY/Horos	ules (3)ta				0
89 Lavve	r Warren Street					
4. Generator's Phone ( )	oury MY 1280a 4	518 411 3606				
5. Transporter 1 Company Name	6.	US EPA ID Number		A. State Transp	porter's ID	W
OP TECH Environmental 9		NVD988989753		B. Transporter	1 Phone gara	205,6760
7. Transporter 2 Company Name	8. I	US EPA ID Number		C. State Transp	oorter's ID	
Designated Facility Name and Site Address		No. 110 and 174 and		D. Transporter	2 Phone	
and the second s	10.	US EPA ID Number		E. State Facility	's ID	
Gleas Falls VAVIP VIA						
2 Sherman RD SQ L	over Waren St			F. Facility's Pho	one	
11. WASTE DESCRIPTION		1877	1 0	antistra and		
		# 10	No.	ontainers	13. Total	14 Un Wt./\
a.			NO.	Туре	Quantity	Wt./
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Non RCRA Not DOT Rec	milated Limit Crass	KTATO MANAGO	_ 1	11 11	4500	6
b.	PERSONAL PROPERTY FACILITY	TITO SABINET		198		
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1.		*				
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<ol> <li>Additional Descriptions for Materials Listed Above</li> </ol>	/e			H. Handling Cod	les for Wastes Listed Abov	e
A.	0.	*4		а	· C	
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b.	0.			No.		
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5. Special Handling Instructions and Additional Info	ormation	rac M.				
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Empression Barrier 6	White their boson was	TOTAL SECTION AND THE PARTY OF				
Emergency Response #	800-225-6750 OP	TECH Environme	ntal Se	svices, in	O.	
Energency Response # JOB NUMBER 98756	800-225-6750 OP	TECH Environme	ntai Se	svices, in	0.	
Energency Response # JOB NUMBER 98758	800-225-6750 OP	TECH Environme	ntal Sc	avices, in	o.	
G. GENERATOR'S CERTIFICATION: I bereby con	tify that the contents of this skiews				o.	
JOB MUMBER 98756	tify that the contents of this skiews				c.	
6. GENERATOR'S CERTIFICATION: I hereby cer in proper condition for transport. The materials d	tify that the contents of this skiews					Date
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6. GENERATOR'S CERTIFICATION: I bareby con	tify that the contents of this shipme lescribed on this manifest are not s	ent are fully and accurately describe subject to federal hazardous waste Signature			Mon	Date Date Date Date
6. GENERATOR'S CERTIFICATION: I hereby cert in proper condition for transport. The materials described of the materials of transporter 1 Acknowledgement of Receipt of Mainted/Typed Name  3. Transporter 2 Acknowledgement of Receipt of Mainted/Typed Name	tify that the contents of this shipme lescribed on this manifest are not s	ent are fully and accurately describe subject to federal hazardous waste Signature			Mon	Date Date Date Date
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G. GENERATOR'S CERTIFICATION: I hereby cert in proper condition for transport. The materials definited/Typed Name  T. Transporter 1 Acknowledgement of Receipt of Management  tify that the contents of this shipme fescribed on this manifest are not s Materials	ent are fully and accurately describe subject to federal hazardous waste Signature Signature	ed and are in a regulations.		Mon	Date Date Date Date	

100.7	ON-HAZARDOUS ASTE MANIFEST			1		Phone		Fracking Nun	indei
Ų.	S00 SUMME VALHALLA N	ng Address NC & CIBA CORP 1 AKE DR STE 15 Y 10586	id attn: Chris Me	Gene Yer 35-4937	88 FOM	ES INC ER VVAI	an mailing addr & C.18A R.R.E.N. 5.1	CORP	
	rator's Phone: nsporter 1 Company Nan		4 651407400	NU. 010/31		_	U.S. EPA ID	Number .	
		. h. Tr	1.12				1		
7. Tran	nsporter 2 Company Nan	ie:					U.S. EPA ID	Number	
	FAIRPOR	d Site Address EVV YORK at HIGH NTON PARKWAY TNY 14450					U.S. EPAID		
Í	/'s Phone:	on finalistics Decree Objects M		23-6132	1 100000			1	
9a. HM	and Packing Group (if a	on (including Proper Shipping Na any))	ame, Hazard Class, ID Numbe	er,	10. Contain	Type	11. Total Quantity	12. Unit Wt./Vol.	
	1 NON DOT	REGULATED MAT	ERIAL	115958NV	901	CW	101		
	2,								
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		s and Additional Information ENVIRONMENTA STIMATED	L DERIVED WAS	SYE					
14. GI General	1 115956NY  VVETGHT IS E  ENERATOR'S CERTIFIC tor's/Offeror's Printed/Typ	ENVIRONMENTA STIMATED  CATION: I certify the materials of the property of the	described above on this mani	fest are not subject to fe Signature	L of Anna	Curry or			Month Day
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Plea	se prir	nt or type. (Form desig	ned for use on elite (12-pitch) type	writer.)				11.10 2 2	17 11	•
1		ON-HAZARDOUS ASTE MANIFEST	Generator ID Number	2. F	Page 1 of 3. Eme	gency Response	Phone	4. Waste Tr	acking Num	ber
		nerator's Name and Mailir rator's Phone:	ng Address NC. & CIBA CORP of D LAKE OR STE 150 at 10505	ANTEAGROUP		89 LOWE	es inc er wa	nan mailing addre	CORP	
ľ		nsporter 1 Company Nam	ne		-1			U.S. EPA ID	Number	
	7 Troi	nsporter 2 Company Nam	- A	- 10° v	0			U.S. EPA ID	Number	
	7. 110	naponer, 2 company rian								
		#25 PERI FAIRPOR	id Sile Address EWFYORK at HIGH AC NTON PARKMAY TNY 14450	RES LANDFILL (585) 223	84.80			U.S. EPA ID		
	Facilit	y's Phone:			0.192.	10.01-1-		li or sur	F	
	9a. HM	9b, U.S. DOT Descripti and Packing Group (if a	ion (including Proper Shipping Name, Ha any))	azard Class, ID Number,		10. Contain No.	Type	11. Total Quantity	12. Unit Wt./Vol.	
GENERATOR —		1. NON DOT	REGULATED MATERIA		5958WY	001	CM	181 .		
- GENE		2.								
		3.								
		4.								
			ns and Additional Information							
		WEIGHT IS E	CATION: I certify the materials describ		e not subject to fed	eral regulations fo	reporting p	proper disposal of	Hazardous V	Naste.
		ator's/Offeror's Printed/Ty		P P A LL V I	Signature				CAL	Month Day Year
NT2L ←	15. Int	ternational Shipments	Antea Grova on Behr		oort from U.S.	Port of enti-	y/exit:	up on behild	t at Man	(mil) 2 10 2016
		porter signature (for expo ansporter Acknowledgmen				Date leavil	g 0.0			
TRANSPORTER		porter 1 Printed/Typed Na			Signature					Month Day Year
TRANS		porter 2 Printed/Typed Na	ime		Signature					Month Day Year
1		screpancy			-					
	17a. D	Discrepancy Indication Spa	ace Quantity	Туре	L	Residue	Number:	Partial Re	jection	Full Rejection
CILITY	17b. A	Iternate Facility (or Gener	rator)					U.S. EPA ID	Number	
DESIGNATED FACILITY		y's Phone: Signature of Alternate Faci	ility (or Generator)							Month Day Year
DESIGN			7							
	18. De	esignated Facility Owner of	or Operator: Certification of receipt of ma	aterials covered by the manife	est except as noted	in Item 17a				
	Printed	d/Typed Name	We to		Signature 					Month Day Year

Date	Ticket	00-6833 Hercules Inc & Ciba Corp (115958ny): 89 Lowe Description	Quantity	U/M	Rate	Amount
02/11/16	1065792	Vehicle#: s123				1 1
		Po#:glens falls ptp ast				
		Special waste misc	13.15	TON	25.00	328,75
3		Nys sales tax		TON		23.01
		Nys sales tax		ECH		120.00
		Nys sales tax		PCT		1.84
		Regulatory cost recovery	1.00	PCT	3.60	66.78
		Standard environmental fee taxable - percent (land	1.00	PCT		245.79
					13.25	
		Landfill fixed disposal fuel surcharge	1.00	PCT	8.00	26,30
		Trans per load	1.00	ECH	1,500.00	1,500.00
		Profile # 115958ny				
		Generator hercules inc. & Ciba corporation				
		Manifest# **				
		Ticket Total				2,312.47
		Hones Total	-			
02/11/16	1065803	Vehicle#: s123				
400 (45 14	1641.41	Po#:glens falls ptp ast				
		Special waste misc	13.85	TON	25.00	346.25
		Nys sales tax		TON		24.24
		Nys sales tax		ECH		120.00
		Nys sales tax		PCT		1.94
		Regulatory cost recovery	1.00	PCT	3.60	67.46
		Standard environmental fee taxable - percent (land	1.00	PCT		248.30
		Ctandara stringinienten (**			13.25	
		Landfill fixed disposal fuel surcharge	1.00	PCT	8.00	27.70
		Trans per load	1.00	ECH	1,500.00	1,500.00
		Profile # 115958ny				
		Generator hercules inc. & Ciba corporation				
		Manifest# **				
		Ticket Total				2,335.89
		Ticket Total				
		Total charges for service location				4,648.36
		Total Current Charges				4,648.36

NOTICE: By sending your check, you are authorizing the Company to use information on your check to make a one-time electronic debit to your account at the financial institution indicated on your check. This electronic debit will be for the amount of your check and may occur as soon as the same day we receive your check.

You agree, in order for us to service our account or to collect any amounts you may owe (for non-marketing or solicitation purposes), we may contact you by telephone at any telephone number associated with your account, including wireless telephone numbers, which could result in charges to you. We may also contact you by sending text messages, facsimile messages or e-mails, using any e-mail address you provide to use. Methods of contact may include using pre-recorded/artificial voice messages and/or use of an automatic dialing device, as applicable.

By Relect of Antera Group on behalf of Ashkud, Inc. By Ruy of Anter Group on behalf of Ashkud. 2   16 15. Infrariational Shipments   Import to U.S.   Export from U.S.   Date leaving U.S.:   16. Transporter signature (for exports only):   Date leaving U.S.:   16. Transporter Acknowledgment of Receipt of Materials  Transporter 1 Printed/Typed Name   Signature   Month   Day   17. Discrepancy   Transporter 2 Printed/Typed Name   Signature   Month   Day   17. Discrepancy Indication Space   Quantity   Type   Residue   Partial Rejection   Full Rejection   Full Rejection   17. Alternate Facility (or Generator)   U.S. EPAID Number   17. Signature of Alternate Facility (or Generator)   Month   Day   18. Designature of Alternate Facility (or Generator)   Month   Day   18. Designature of Alternate Facility (or Generator)   Month   Day   18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a	1 1	NON-HAZARDOUS	1			Emergency Respons	Phone	4. Waste	Tracking Nur	mber	
Special Parties   Conjugue   Please   Conjugue   Conjugue   Conj		Generator's Name and Mai HERCULES I 500 SUMMIT	LAKE DR. STE 15	0 attn: Chris Me	OUP yer	89 LOW	ER W	ARREN ST			
T. Transporter 2 Castigney Name  E. Designating from an State Agent Cast High ACRES LANDFILL  AS PERINTON PARKWAY  Fricilly's Thermore  B. Designating Fricilly Statement  Fricilly's Thermore  10. Conditions  11. Total  12. Usual  N. A  Fricilly's Thermore  13. Special Handless Inches and Additional Information  14. Special Handless Inches and Additional Information  15. Special Handless Inches and Additional Information  16. Special Handless Inches and Additional Information  17. Transporter Special Process and Additional Information  18. Special Handless Inches and Additional Information  19. Special Handless Inches and Additional Information  19. Special Handless Inches and Additional Information  19. Special Handless Information and Additional Information  19. Special Handless Information and Additional Information  19. Special Handless Information and Additional Information  19. Special Handless Information and Additional Information  19. Special Handless Information and Additional Information  19. Special Handless Information and Additional Information  19. Special Handless Information and Additional Information  19. Special Handless Information Special Information and Information Information  19. Special Handless Information Information  19. Special Handless Information Information  19. Special Handless Information Information  19. Special Handless Information Information  19. Special Handless Information Information  19. Special Handless Information Information  19. Special Handless Information Information  19. Special Handless Information Information  19. Special Handless Information Information  19. Special Handless Information Information  19. Special Handless Information Information  19. Special Handless Information Information Information  19. Special Handless Information Information Information  19. Special Handless Information Information Information  19. Special Handless Information Information Information  19. Special Handless Information Information Information  19. Special Handless Information		nerator's Phone:	me		95-9937	MOLLING	BUNT				
8. Designated Facility Answer Country of Native Constitutions and Additional Information 1. Special Hundring Institutions and Additional Information 1. 115958NY	"	Silva	Joke Thekin	a Inc.				U.S. EPA II	D Number		
### ### ### ##########################	7. T	ransporter 2 Company Na	me /	1	-			U.S. EPA II	) Number	<del></del>	
### ### ### ##########################	0.0	Variance of Facility Alexander	-JOIL Add								
10. Containment   10. Contai		FAIRPOR	INTON PARKVVAY								
1. NON DOT REGULATED MATERIAL   115958NY			lian /Including Deaner Chinning May			1 100000	-				
1. NON DOT REGULATED MATERIAL  115958NY  12  3.  4.  4.  4.  4.  6ENERATOR'S CERTIFICATION: Locality the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Huzardous Weste.  Signature  WEIGHT IS ESTIMATED  4.  6ENERATOR'S CERTIFICATION: Locality the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Huzardous Weste.  Signature  Signature  Signature  Signature  Finite of proper disposal of Huzardous Weste.  Inc. Month Day  Annual Properties on Spinator (for expects only).  Export from U.S. Port of displayorist Interaport of Spinator (for expects only).  Export from U.S. Port of displayorist Date leaving U.S.:  Signature  North Day  7. Obsertations Spinator  7. Obsertations Spinator  North Day  7. Obsertations Spinator  7. Obsertations Spinator  North Day  North Day  Audifered Reference Munifier:  7. All Exposed Facility (or Generator)  North Day  1. Designature of All-stende Facility (or Generator)  North Day  1. Designature of All-stende Facility (or Generator)  North Day  1. Designature of All-stende Facility (or Generator)  North Day  1. Designature of All-stende Facility (or Generator)			any))	ine, Hazard Class, ID Numb	er,						
3. Special Handling inductions and Additional Information   1. 115958NY - ENVIRONMENTAL DERIVED WASTE   WEIGHT IS ESTIMATED     14.   GENERATOR'S CERTIFICATION: Lectify the malerials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Woods.     15. Information's Superative   Signature		1. NON DOT	REGULATED MATE	ERIAL	115958NY						
Signature   Sign											
I ansporter 2 Printed/Typed Name  Signature  Signature  Month Day  7. Discrepancy  7a. Discrepancy Indication Space Quantity  Type  Manifest Reference Number:  Wantifest Reference Number:  U.S. EPA ID Number  Alternate Facility (or Generator)  Month Day  Month Day  Month Day  Designature  Month Day  Alternate Facility (or Generator)  Month Day  Month Day  Designature of Alternate Facility (or Generator)  Month Day	13. S	1. 115958NY -	ENVIRONMENTAL	DERIVED WAS	STE						
Transporter 2 Printed/Typed Name  Signature  Signature  Month Day  7. Discrepancy  7a. Discrepancy Indication Space  Quantity  Type  Residue  Partial Rejection  Full Rejection  Manifest Reference Number:  U.S. EPA ID Number  actility's Phone:  7b. Alternate Facility (or Generator)  Month Day  Designature of Alternate Facility (or Generator)  Month Day	14. Genera B N 15. Inte	1. 115958NY - WEIGHT IS ES GENERATOR'S CERTIFIC rator's/Offeror's Printed/Typ An Reles of A rnational Shipments porter signature (for export	ENVIRONMENTAL STIMATED  CATION: I certify the materials de ned Name  Antica Group on be import to U.S. is only);	escribed above on this manif	fest are not subject to for Signature	21 of Ante	ex Grow			/ Month	Day   16
7. Discrepancy 7. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection Manifest Reference Number:  **Total Indication Space Operator**  **Manifest Reference Number**  **U.S. EPAID Number**  **Total Indication of Receipt of Materials Covered by the manifest except as noted in Item 17a	B A VIS. Interest	1. 115958NY - WEIGHT IS ES GENERATOR'S CERTIFIC rator's/Offeror's Printed/Typ Arn Reles of Arnational Shipments porter signature (for export ansporter Acknowledgment order 1 Printed/Typed Nam	ENVIRONMENTAL STIMATED  CATION: I certify the materials de ned Name  Antica Group on he import to U.S. is only); of Receipt of Materials	escribed above on this manif	fest are not subject to for Signature  Inc   B	Port of entry Date leaving	exit: U.S.:	p en behall		Inc. Month	16
7a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection Manifest Reference Number:  7b. Alternate Facility (or Generator) U.S. EPAID Number  7c. Signature of Alternate Facility (or Generator) Month Day  Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a	Bay Solution 5. Internal	1. 115956NY - WEIGHT IS ES GENERATOR'S CERTIFIC alor's/Offeror's Printed/Typ An Reles of A remained Shipments porter signature (for export ansporter Acknowledgment orter 1 Printed/Typed Nam Solitors J.	ENVIRONMENTAL STIMATED  CATION: I certify the materials de ded Name Antos Coroup on be import to U.S. is only):  of Receipt of Materials  of Receipt of Materials	escribed above on this manif	fest are not subject to for Signature  Inc   B   Export from U.S.	Port of entry Date leaving	exit: U.S.:	p en behall		Month	Day
Manifest Reference Number:    Manifest Reference Number:   U.S. EPA ID Number	Bay Solution	1. 115956NY - WEIGHT IS ES GENERATOR'S CERTIFIC alor's/Offeror's Printed/Typ An Reles of A remained Shipments porter signature (for export ansporter Acknowledgment orter 1 Printed/Typed Nam Solitors J.	ENVIRONMENTAL STIMATED  CATION: I certify the materials de ded Name Antos Coroup on be import to U.S. is only):  of Receipt of Materials  of Receipt of Materials	escribed above on this manif	fest are not subject to for Signature  Inc B Signature  Export from U.S.	Port of entry Date leaving	exit: U.S.:	p en behall		Month	Day 10
b. Alternate Facility (or Generator)  U.S. EPA ID Number  citility's Phone:  C. Signature of Alternate Facility (or Generator)  Month Day  Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a	B No. 5. Interest of the contract of the contr	1. 115958NY - WEIGHT IS ES GENERATOR'S CERTIFIC ator's/Offeror's Printed/Typ An Relex of crnational Shipments porter signature (for export ensporter Acknowledgment order 1 Printed/Typed Nam  1. 115958NY - CREATION OF CONTROL OF CON	ENVIRONMENTAL STIMATED  CATION: I certify the materials de ded Name Antos Coroup on be import to U.S. is only):  of Receipt of Materials  of Receipt of Materials	escribed above on this manif	fest are not subject to for Signature  Inc B Signature  Export from U.S.	Port of entry Date leaving	exit: U.S.:	p en behall		Month	Day 10
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### LAND DISPOSAL RESTRICTION AND CERTIFICATION FORM

Generator: ASHLAND INC.	U.S. EPA ID No.: NYD00206974
Generator: ASHLAND INC.	U.S. EP

89 LOWER WARREN STREET, QUEENSBURY, NY 12804

Manifest: 015123901JJK

Page - Line

1-01 Approval: B160147MDI NWW

Waste Code(s): D005 D006 D007 D008 D009 D010 K002 K003 K004 K005 K006 K007

Hazardous Constituents: 200 Antimony, 207 Cyanides (amenable)

Subcategory(s): D009 - Low Mercury Subcategory Nonwastewaters Non-RMERC residues

Certification: THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD.

This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Part

268 Subpart C and Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.

I hereby certify that all information submitted on this and all associated documents, is complete and accurate to the best of my knowledge and information.

Printed
Name: By Rober of Anten Group on behalf of Ashland, Inc. Title: Project Professional

Date: 3/7/2016

-707841 - 1 Rev. 09/12 Page 1 of 1

4 . 44

JNIFORM HAZARDOUS WASTE MANIFEST	gned for use on elite (12-pit 1. Generator ID Number NYD 002		2. Page 1 o	3. Emergency Bespon (800) 274-5	203	A Manifest		390	1	JK
TELESCOPE AND THE COLUMN TO TH	ing Address ASHLAND PARKWAY		1	Generator's Site Addres	s (if different t	han mailing addres	8)			
				89 LOWER			CCI			
DUBLIN, OH 4 Generator's Phone:	3017			QUEENSE	BURY, N	W 12804				
. Transporter 1 Company Na						U.S. EPAID N		01112	a	
EQ NORTHEA  Trumsporter 2 Company Na								314 13		
Eb Ind	ustrial Se	rulles				IMIK	435	544.	7/42	
. Designated Facility Name a	INDUSTRIES MICH SERVICE DRIVE	IGAN DISP	OSAL WAS	TE TREATME	1	U.S. EPA IU N	umber	24 831		
acility's Phone: (80	0) 592-5489					1				
are .	tion (including Proper Shipping I	Name, Hazard Class, I	D Number,	10. Cont	ainers Type	11. Total Quantity	12. Unit Wt.Wol.	13.	Waste Code	2
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5.0	WASTE MANIFEST Generator's Name and Mailing	Address A SELII AMELI		- 3.1			101		390	I J	<u>JK</u>
6	200 BLAZER P	ARKWAY	11.47		Generator's Site Addres	S (if different	REN 516	ss)			
E	JUBLIN, OH 43	017			QUEENSE	URY N	IY 12804				
	nerator's Phone; Fransporter 1 Company Name				4182411144	811-11					
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	ransporter 2 Company Name						U.S. EPA ID N		OPA IO	102	
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**BILLING INFORMATION** 

EQ Northeast, Inc. 185 Industrial Road Wrentham, MA 02093 **Emergency** 

Response #: (800) 274-5263 Phone: (508) 384-6151 Fax: (508) 384-6028 Work Order: 7739900

Reference Code: Arrival Time:

**GENERATOR INFORMATION** 

Date: 03/02/2016 Prepared By: Wanda Tobey

			4	Name: ASHLAND IN EPA #: NYD0020897 Phone: ( ) - Addr: 89 LOWER W QUEENSBUR	48 (ID: 138492) ARREN STREET	Contact: Title: Phone: ( ) Mobile: ( )	# *
			TSDF INFORMAT	ION	per distribution of the second		
Addr: 493	CHIGAN DISPOSA 50 N I-94 SERVIC LEVILLE,MI 481			Market Service Control of the Contro	EPA#: MID000 Phone: (800) 59 Fax: (800) 59	2-5489	
Manifest: 0	16123901JJK		DF: MICHIGAN DIS dr: 49350 N I-94 S BELLEVILLE,M		Phone: (800 Fax: (800	) 592-5489 ) 592-5329	
	dous waste, solid, i	n.o.s., (Wastewater Treatmet 22) Waste Codes: K002	ni Sludge) , 9, PGIII K003 K004	K005 K006 I	# OF CONT	DM 3	SOO P
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Delivery	Date	Time	Explanation				
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		o we can continue to prov	ide better service:	Excellent	P	ory p	oor

have been properly disposed of in accordance with all local, state and federal regulation. This certificate is to verify the wastes specified on Manifest # OIS 123 901 JJ K-

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

FACILITY NAME: (Please check one)

CEKTIFICATE OF DISPOSAL

ADDRESS:

Michigan Disposal Waste Treatment Plant (EPA I.D. # MID006724831)

☐ Wayne Disposal, Inc. (EPA LD. # MID048090633)

49350 N. I-94 Service Drive Bellville, Michigan 48111

1-800-592-5489

PHONE NUMBER:

1-800-593-5329

FAX NUMBER:

Authorized Signature:

Vgologs 20

US ECOLOGY 49350 N. 1-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

5/1/15



### LAND DISPOSAL RESTRICTION AND CERTIFICATION FORM

Generator: ASHLAND INC.

U.S. EPA ID No.: NYD002069748

89 LOWER WARREN STREET, QUEENSBURY, NY 12804

Manifest: 015123435JJK

Page - Line 1-01

Approval: B160147MDI

NWW

Waste Code(s): D005 D006 D007 D008 D009 D010 K002 K003 K004 K005 K006 K007

Hazardous Constituents: 200 Antimony, 207 Cyanides (amenable)

Subcategory(s): D009 - Low Mercury Subcategory Nonwastewaters Non-RMERC residues

Certification: THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD.

This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Part

268 Subpart C and Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.

I hereby certify that all information submitted on this and all associated documents, is complete and accurate to the best of my knowledge and information.

Printed
Name:

Byen Reles of Anna Group on behalf of Ashland Inc. Title:

Project Professional

Printed
Name:

Byen Reles of Anna Group on behalf of Ashland Inc.

Date:

4/26/2016

Rev. 09/12

Page 1 of 1

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	5. G	5. Generator's Name and Mailing Address A SHLAND INC.  5.200 BLAZER PARKWAY  Generator's Site Address (if different than mailing address)  89 LOWER WARREN STREET									
		DUBLIN, OH 43017 QUEENSBURY, NY 12804									
	6. Tr	erator's Phone: ansporter 1 Company Name	* 11.10				U.S. EPAID N		314 13	6	
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		3.							JII 1875		
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	14. 8	Special Handling Instructions 160147MD1 / (S,T) In	and Additional Information torganic Pigment Processing	Waste							
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### **IFICATE OF DISPOSAL**

have been properly disposed of in accordance with all local, state and federal regulation. This certificate is to verify the wastes specified on Manifest # OIS123435 JJK

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

FACILITY NAME: (Please check one)

Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)

☐ Wayne Disposal, Inc. (EPAID. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive Bellville, Michigan 48111

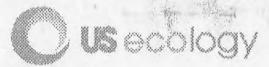
PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-593-5329

Authorized Signature:



EQ Northeast, Inc. 185 Industrial Road Wrentham, MA 02093

Emergency Response #: (800) 274-5263 Phone: (508) 384-6151 Fax: (508) 384-6028

Work Order: 7823800

Reference Code: Arrival Time:

Date: 04/06/2016 Prepared By: Wanda Tobey

Name: ANTEA USA INC	INFORMATION 3		GENERATOR INFORMATION	
Acct. #: 17945-99 Phone: (800) 477-7411 Addr: 5910 RICECREEK PARKW/ SHOEVIEW, MN 55126-502			Name: ASHLAND INC. Contact; EPA #: NYD002069748 (ID: 138492) Title: hone: ( ) - Phone: ( ) Addr: 89 LOWER WARREN STREET QUEENSBURY, NY 12804	
	de la companya de la	TSDF INFORMATIO	N	
TSDF: MICHIGAN DISPOSA Addr: 49350 N I-94 SERVIC BELLEVILLE,MI 481	E DRIVE		EPA#: MID000724831 Phone: (800) 592-5489 Fax: (800) 592-5329	
Manifest: 015123435JJK		DF: MICHIGAN DISP dr: 49350 N I-94 SEI BELLEVILLE,MI		
HM DESCRIPTION  X 1. NA3077, Hezardous waste, solid, r Approval Code: B160147MDI (52526 Hand. Instruct:  COUIPMENT ACKNOWLEDGMENT Customer agknowledges that this equi	02) Waste Codes: K002	K003 K004	K006 K006 K007	NTITY UNIT
11X1 787		# w/ liner?	Spotted # Vac Fee	- <del>U</del>
Briver Signature	Date		Customer Signature	Date
Pickup Date	Time	Explanation	10 ( + 100 (	
	1315		117 30	
	, -			
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Start Loading: Finish Loading: Leave Site: SHPMENT RECEIVED IN APPARENT GOOD OR UDBLECT TO THE TERMS AND CONDITIONS OF	THE UNIFORM STRAIGHT	MARKED AND LABELED A	ND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO SOFTHE DEPARTMENT OF TRANSPORTATION.	0 THE
Start Loading: Finish Loading: Leave Site: Leave Site: LUBLECT TO THE TERMS AND CONDITIONS OF LADING AND ANY GOVERNING CLASSFIE AVELLY ON FILE ON THE DATE OF SHIPMEN  Driver Signature	THE UNIFORM STRAIGHT CATIONS AND TARKES T.  Date	MARKED AND LABELED A APPLICABLE REGULATIO	By Rule of Anyla Group on Lahuif of 4/2	0 THE
Start Loading: Finish Loading: Leave Site: Leave Site: LUBLECT TO THE TERMS AND CONDITIONS OF SITE OF LADING AND ANY GOVERNING CLASSFIE AVELLY ON FILE ON THE DATE OF SHIPMEN  Driver Signature  Delivery  Date	THE UNIFORM STRAIGHT CATIONS AND TARIFFS T.	MARKED AND LABELED A	By Rule of Anyla Group on Lahuif of 4/2	0 THE
Start Loading: Finish Loading: Leave Site: CHIPMENT RECEIVED IN APPARENT GOOD ORLUBLECT TO THE TERMS AND CONDITIONS OF SILL OF LADING AND ANY GOVERNING CLASSFINAVILLY ON FILE ON THE DATE OF SHIPMEN  Driver Signature  Delivery  Date  Arrive at TSDF:	THE UNIFORM STRAIGHT CATIONS AND TARKES T.  Date	MARKED AND LABELED A APPLICABLE REGULATIO	By Rule of Anyla Group on Lahuif of 4/2	0 THE
Start Loading: Finish Loading: Leave Site: SHIPMENT RECEIVED IN APPARENT GOOD ORL SUBJECT TO THE TERMS AND CONDITIONS OF SILL OF LADING AND ADD GOVERNING CLASSFI ANNULLY ON FILE ON THE DATE OF SHIPMEN  Driver Signature  Delivery Date  Arrive at TSDF: Start Unloading:	THE UNIFORM STRAIGHT CATIONS AND TARKES T.  Date	MARKED AND LABELED A APPLICABLE REGULATIO	By Rule of Anyla Group on Lahuif of 4/2	0 THE
	THE UNIFORM STRAIGHT CATIONS AND TARKES T.  Date	MARKED AND LABELED A APPLICABLE REGULATIO	By Rule of Anyla Group on Lahuif of 4/2	0 THE

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US E			Manifest Document No.		2. Page 1 of
Generator's Name and Mailing Address     Generator's Phone ( )		har.		<u> </u>		
5. Transporter 1 Company Name	ol .	6. US EPA ID Number		A. State Trans	sporter's ID 7A 70	0
The second secon	T	NYR000176958		B. Transporter		
7. Transporter 2 Company Name	1.3	8. US EPA ID Number		C. State Trans		0.110
7. Hansporter 2 company Name		I		D. Transporte	-	
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facili		
100 at New York or Park	any Longill			F. Facility's Pl		
Taxon NY 1211	150	Ray. Solida Hososwy		1.1 dointy 511	none	
11. WASTE DESCRIPTION	- Heel Non	Res. Solds	12. Co	ntainers	13. Total	14. Unit
Non-DOT Remiser	1 Property Br	1+6303 NY	No.	Туре	Quantity	Wt./\
a. Non-DOT Replaced 11		116 x03 NA	8	DG	2400	F
b. c.						
d.						
d.  G. Additional Descriptions for Materials Listed Above	ve			H. Handling C	codes for Wastes Listed Abo	ve
G. Additional Descriptions for Materials Listed About     15. Special Handling Instructions and Additional In	oformation	wet Was		H. Handling C	odes for Wastes Listed Abo	ve
G. Additional Descriptions for Materials Listed About 15. Special Handling Instructions and Additional In 16. GENERATOR'S CERTIFICATION: I hereby continuous in proper condition for transport. The materials	formation supportedly Dy	I this shipment are fully and accurately described est are not subject to federal hazardous waste re Signature			codes for Wastes Listed Abo	Date nth Day
G. Additional Descriptions for Materials Listed About 15. Special Handling Instructions and Additional In 16. GENERATOR'S CERTIFICATION: I hereby ce in proper condition for transport. The materials Printed/Typed Name	ertify that the contents of described on this manife	I this shipment are fully and accurately described est are not subject to federal hazardous waste re Signature				Date nth Day
G. Additional Descriptions for Materials Listed About 15. Special Handling Instructions and Additional In 16. GENERATOR'S CERTIFICATION: I hereby of in proper condition for transport. The materials Printed/Typed Name	ertify that the contents of described on this manife	f this shipment are fully and accurately described est are not subject to federal hazardous waste re			of Antibout Inc.	Date  nth Day  1 37 Date
G. Additional Descriptions for Materials Listed About 15. Special Handling Instructions and Additional In 16. GENERATOR'S CERTIFICATION: I hereby or in proper condition for transport. The materials Printed/Typed Name 17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name	ertify that the contents of described on this manife	I this shipment are fully and accurately described est are not subject to federal hazardous waste re Signature	Comp	all respects		Date  nth Day  Date
G. Additional Descriptions for Materials Listed About 15. Special Handling Instructions and Additional In 16. GENERATOR'S CERTIFICATION: I hereby can in proper condition for transport. The materials Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name	ertify that the contents of described on this manife	f this shipment are fully and accurately described est are not subject to federal hazardous waste re		all respects	of Antibout Inc.	Date nth Day Date nth Day
G. Additional Descriptions for Materials Listed About 15. Special Handling Instructions and Additional In 16. GENERATOR'S CERTIFICATION: I hereby can be in proper condition for transport. The materials Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of	ertify that the contents of described on this manife	I this shipment are fully and accurately described est are not subject to federal hazardous waste re  Signature  Signature	Comp	all respects	of Anish with Inc.	Date nth Day Date nth Day Date
G. Additional Descriptions for Materials Listed About 15. Special Handling Instructions and Additional In 16. GENERATOR'S CERTIFICATION: I hereby can in proper condition for transport. The materials Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name	ertify that the contents of described on this manife	f this shipment are fully and accurately described est are not subject to federal hazardous waste re	Comp	all respects	of Antibout Inc.	Date nth Day Date nth Day Date
G. Additional Descriptions for Materials Listed About 15. Special Handling Instructions and Additional In 16. GENERATOR'S CERTIFICATION: I hereby can be in proper condition for transport. The materials Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of	ertify that the contents of described on this manife	I this shipment are fully and accurately described est are not subject to federal hazardous waste re  Signature  Signature	Comp	all respects	of Anish with Inc.	Date nth Day Date nth Day Date
G. Additional Descriptions for Materials Listed About 15. Special Handling Instructions and Additional In 16. GENERATOR'S CERTIFICATION: I hereby of in proper condition for transport. The materials Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	ertify that the contents of described on this manife Materials	f this shipment are fully and accurately described est are not subject to federal hazardous waste re  Signature  Signature  Signature	Comp	all respects	of Anish with Inc.	Date nth Day Date nth Day Date
G. Additional Descriptions for Materials Listed About 15. Special Handling Instructions and Additional In 16. GENERATOR'S CERTIFICATION: I hereby of in proper condition for transport. The materials Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name  19. Discrepancy Indication Space	ertify that the contents of described on this manife Materials	f this shipment are fully and accurately described est are not subject to federal hazardous waste re  Signature  Signature  Signature	Comp	all respects	A Antibout Inc.	Date nth Day Date nth Day Date



AST Decommissioning Report Former CIBA-GEIGY/HERCULES Plant Site Queensbury, New York Antea Group Project No. GLENSFA151



# Appendix G

**CAMP Exceedances** 

Monitor 1 & 1R - Upwind

Monitor 2 - Active Work Zone

Monitor 3 - Downwind

### VOC ppm (Avg 15min) Exceedances

Monitor 2 (Active W				
Date and Time	Monitor 1 & 1R Levels	Monitor 2 Levels	Monitor 3 Levels	Likely Cause of Exceedance
11/19/2015 15:12	0.6955	6.6927	0	
11/19/2015 15:11	0.6958	7.3921	0	
11/19/2015 15:10	0.6963	7.3515	0	
11/19/2015 15:09	0.6959	7.1508	0	
11/19/2015 15:08	0.6955	6.783	0	
11/19/2015 15:07	0.697	6.5317	0	Unknown
11/19/2015 15:06	0.6963	6.4425	0	Olikilowii
11/19/2015 15:05	0.6955	6.2667	0	
11/19/2015 15:04	0.6948	6.0639	0	
11/19/2015 15:03	0.6939	5.6663	0	
11/19/2015 15:02	0.6933	5.3063	0	
11/19/2015 15:01	0.6925	5.014	0	
11/5/2015 10:31	0.3604	5.1451	0.1327	
11/5/2015 10:30	0.3601	5.3558	0.1327	Three pressure washers
11/5/2015 10:29	0.3598	5.5916	0.133	simultaneously washing near AST
11/5/2015 10:28	0.3594	5.7885	0.1329	door opening; CAMP monitor directly
11/5/2015 10:27	0.3593	5.9929	0.1331	outside door. Possibly from
11/5/2015 10:26	0.359	5.7397	0.1336	tape/plastic being placed around
11/5/2015 10:25	0.3587	5.3078	0.1335	door to hold plastic sheeting in place
11/5/2015 10:24	0.3587	5.0976	0.1337	door to floid plastic sheeting in place
11/5/2015 10:23	0.3586	5.3153	0.1339	
11/2/2015 14:28	0.1656	5.4031	0.0556	
11/2/2015 14:27	0.1665	5.6702	0.0525	1
11/2/2015 14:26	0.1674	6.0097	0.0473	
11/2/2015 14:25	0.1683	6.1011	0.0473	1
11/2/2015 14:24	0.1693	6.4985	0.048	Pressure washing smaller vessels
11/2/2015 14:23	0.1703	8.3546	0.0436	outside of large AST; CAMP monitor
11/2/2015 14:22	0.1713	8.9153	0.0701	close to opening port of vessel
11/2/2015 14:18	0.1741	7.681	0.0683	close to opening port or vesser
11/2/2015 14:17	0.175	7.4899	0.0664	
11/2/2015 14:16	0.176	7.1889	0.0657	
11/2/2015 14:15	0.1769	7.4574	0.0648	
11/2/2015 14:14	0.1777	6.7744	0.0631	

Monitor 1 & 1R - Upwind

Monitor 2 - Active Work Zone

Monitor 3 - Downwind

### VOC ppm (Avg 15min) Exceedances

Monitor 3 (Downwind) Exceedances

Date and Time	Monitor 1 & 1R Levels	Monitor 2 Levels	Monitor 3 Levels	Likely Cause of Exceedance
10/13/2015 11:12	0.5119	0.3459	5.3466	
10/13/2015 11:11	0.5125	0.3433	8.7527	
10/13/2015 11:10	0.513	0.3433	8.7549	
10/13/2015 11:09	0.5135	0.3424	8.7565	
10/13/2015 11:08	0.5132	0.3405	8.7587	
10/13/2015 11:07	0.5131	0.3397	8.7613	
10/13/2015 11:06	0.5131	0.3396	8.7642	
10/13/2015 11:05	0.5131	0.3348	8.7671	Burning on adjacent property
10/13/2015 11:04	0.5132	0.3216	8.7707	
10/13/2015 11:03	0.5139	0.3009	8.7749	
10/13/2015 11:02	0.5143	0.2963	8.7798	
10/13/2015 11:01	0.5149	0.2934	8.7856	
10/13/2015 11:00	0.5155	0.2905	8.7913	
10/13/2015 10:59	0.5158	0.2773	8.7957	
10/13/2015 10:58	0.5161	0.281	8.7926	

Monitor 1 & 1R - Upwind

Monitor 2 - Active Work Zone

Monitor 3 - Downwind

### Particulate (Avg 15min) (mg/mA^3) Exceedances

Monitor 3 (Downwind) Exceedances

Monitor 3 (Bownwin	u/ Exceedinces			
Date and Time	Monitor 3 Levels	Monitor 1 & 1R Levels	Monitor 2 Levels	Likely Cause of Exceedance
11/3/2015 10:09	0.1078	0.0024	0.1419	
11/3/2015 10:08	0.1097	0.0025	0.3069	
11/3/2015 10:07	0.1099	0.0027	0.3074	
11/3/2015 10:06	0.1099	0.0029	0.3073	
11/3/2015 10:05	0.1101	0.003	0.3343	
11/3/2015 10:04	0.1105	0.0031	0.3348	Limestone ash being added to roll-off
11/3/2015 10:03	0.1107	0.004	0.3355	bin outside PTP; dust carried when
11/3/2015 10:02	0.1112	0.0041	0.3355	limestone ash was being poured
11/3/2015 10:01	0.1115	0.0041	0.3406	illilestone asii was being poureu
11/3/2015 10:00	0.1115	0.0042		
11/3/2015 9:59	0.1115	0.0045		
11/3/2015 9:58	0.1116	0.0045		
11/3/2015 9:57	0.1119	0.0046	0.2697	
11/3/2015 9:56	0.1033	0.0047	0.2629	
10/20/2015 9:08	0.1342	0.0239	0.3589	
10/20/2015 9:07	0.1537	0.0238	0.3473	
10/20/2015 9:06	0.1559	0.0236	0.3567	
10/20/2015 9:05	0.1582	0.0233	0.3556	
10/20/2015 9:04	0.1623	0.0233	0.3507	
10/20/2015 9:03	0.1693	0.0233	0.3471	Smoke from using a hot pressure
10/20/2015 9:02	0.1675	0.0232	0.3272	washer that had soot on the heating
10/20/2015 9:01	0.1554	0.0232	0.3109	coils
10/20/2015 9:00	0.1538	0.0231	0.3032	Colls
10/20/2015 8:59	0.1523	0.0229	0.2657	
10/20/2015 8:58	0.1411	0.0229	0.2705	
10/20/2015 8:57	0.1352	0.0229	0.2706	
10/20/2015 8:56	0.1225	0.0228	0.2591	
10/20/2015 8:55	0.1055	0.0227	0.2476	]

Monitor 1 & 1R - Upwind

Monitor 2 - Active Work Zone

Monitor 3 - Downwind

### Particulate (Avg 15min) (mg/mA^3) Exceedances

Date and Time	Monitor 1 & 1R Levels	Monitor 2 Levels	Monitor 3 Levels	Likely Cause of Exceedance
11/23/2015 15:50	0.0016	0.101	0.0035	
11/23/2015 15:49	0.0015	0.1102	0.0036	1
11/23/2015 15:48	0.0015	0.1183	0.0037	1
11/23/2015 15:47	0.0015	0.1225	0.0037	1
11/23/2015 15:46	0.0014	0.1222	0.0037	1
11/23/2015 15:45	0.0014	0.1252	0.0038	1
11/23/2015 15:44	0.0013	0.1204	0.0038	1
11/23/2015 15:43	0.0014	0.127	0.0039	1
11/23/2015 15:42	0.0015	0.1248	0.0039	1
11/23/2015 15:41	0.0015	0.1218	0.0038	1
11/23/2015 15:40	0.0017	0.1262	0.0039	1
11/23/2015 15:39	0.0017	0.1285	0.0041	7
11/23/2015 15:38	0.0017	0.1335	0.0041	7
11/23/2015 15:37	0.0017	0.1373	0.0041	7
11/23/2015 15:36	0.0016	0.1347	0.0041	1
11/23/2015 15:35	0.0015	0.1296	0.0041	7
11/23/2015 15:34	0.0015	0.1272	0.0039	l laba accus
11/23/2015 15:33	0.0015	0.118	0.0039	Unknown
11/23/2015 15:32	0.0015	0.1171	0.0039	7
11/23/2015 15:31	0.0015	0.1155	0.0039	7
11/23/2015 15:30	0.0015	0.1124	0.0039	7
11/23/2015 15:29	0.0015	0.1118	0.0039	7
11/23/2015 15:28	0.0018	0.1042	0.0039	1
11/23/2015 15:27	0.0017	0.1064	0.0039	7
11/23/2015 15:26	0.0017	0.1059	0.0039	1
11/23/2015 15:25	0.0015	0.1045	0.0038	1
11/23/2015 15:24	0.0015	0.1075	0.0036	
11/23/2015 13:55	0.0011	0.1118	0.0033	
11/23/2015 13:54	0.0011	0.1164	0.0032	
11/23/2015 13:53	0.0011	0.1143	0.0031	
11/23/2015 13:52	0.0011	0.111	0.003	
11/23/2015 13:51	0.0011	0.1077	0.003	
11/23/2015 13:45	0.0011	0.1053	0.0027	
11/23/2015 13:44	0.0011	0.1038	0.0026	

Monitor 1 & 1R - Upwind

Monitor 2 - Active Work Zone

Monitor 3 - Downwind

## Particulate (Avg 15min) (mg/mA^3) Exceedances Monitor 2 (Active Work Zone) Exceedances

Monitor 2 (Active W				
Date and Time	Monitor 1 & 1R Levels	Monitor 2 Levels	Monitor 3 Levels	Likely Cause of Exceedance
11/5/2015 9:37	0	0.1037	0.0389	
11/5/2015 9:36	0	0.1081	0.0388	7
11/5/2015 9:35	0	0.1097	0.0388	7
11/5/2015 9:34	0	0.1124	0.0388	Three procesure washers
11/5/2015 9:33	0	0.1123	0.0387	<ul><li>Three pressure washers</li><li>simultaneously washing near door</li></ul>
11/5/2015 9:32	0	0.1108	0.039	<ul> <li>opening; CAMP monitor directly</li> </ul>
11/5/2015 9:31	0	0.1113	0.039	outside door
11/5/2015 9:30	0	0.1106		outside door
11/5/2015 9:29	0	0.107		
11/5/2015 9:28	0	0.1045		
11/5/2015 9:27	0	0.1017		
11/3/2015 10:09	0.0024	0.1419	0.1078	
11/3/2015 10:08	0.0025	0.3069	0.1097	7
11/3/2015 10:07	0.0027	0.3074	0.1099	7
11/3/2015 10:06	0.0029	0.3073	0.1099	7
11/3/2015 10:05	0.003	0.3343	0.1101	7
11/3/2015 10:04	0.0031	0.3348	0.1105	Limestone ash being added to roll-off
11/3/2015 10:03	0.004	0.3355	0.1107	bin outside PTP; dust carried when
11/3/2015 10:02	0.0041	0.3355	0.1112	limestone ash was being poured
11/3/2015 10:01	0.0041	0.3406	0.1115	
11/3/2015 9:57	0.0046	0.2697	0.1119	
11/3/2015 9:56	0.0047	0.2629	0.1033	
11/3/2015 9:55	0.0048	0.2556	0.08	
11/3/2015 9:54	0.0049	0.1889	0.0181	
10/20/2015 12:03	0.0186	0.1025	0.0164	
10/20/2015 12:02	0.0187	0.1105	0.0165	Complex filling the DTD building as
10/20/2015 12:01	0.0187	0.1157	0.0168	Smoke filling the PTP building as a  result of using a bet pressure weeker.
10/20/2015 12:00	0.0187	0.12	0.017	result of using a hot pressure washer
10/20/2015 11:59	0.0187	0.1257	0.0169	that had soot on the heating coils
10/20/2015 11:58	0.0187	0.1359		7

Monitor 1 & 1R - Upwind

Monitor 2 - Active Work Zone

Monitor 3 - Downwind

### Particulate (Avg 15min) (mg/mA^3) Exceedances

Date and Time	Monitor 1 & 1R Levels	Monitor 2 Levels	Monitor 3 Levels	Likely Cause of Exceedance
10/20/2015 11:57	0.0188	0.1424		
10/20/2015 11:56	0.0187	0.1472		1
10/20/2015 11:55	0.0185	0.1573	0.0166	
10/20/2015 11:54	0.0186	0.1615	0.0162	
10/20/2015 11:53	0.0187	0.1607		
10/20/2015 11:52	0.0187	0.1616	0.0196	
10/20/2015 11:51	0.0187	0.1598	0.0235	
10/20/2015 11:50	0.0187	0.1577	0.0316	
10/20/2015 11:49	0.0189	0.1525		
10/20/2015 11:48	0.0189	0.1417	0.0359	
10/20/2015 11:47	0.0189	0.1321		
10/20/2015 11:46	0.019	0.124		
10/20/2015 11:45	0.0191	0.1162	0.0329	
10/20/2015 11:44	0.0192	0.1065	0.0331	
10/20/2015 9:56	0.0227	0.1213	0.0695	Smoke filling the PTP building as a
10/20/2015 9:55	0.0227	0.1319	0.075	result of using a hot pressure washer
10/20/2015 9:54	0.0229	0.1533	0.0801	that had soot on the heating coils
10/20/2015 9:53	0.0229	0.1673	0.0808	
10/20/2015 9:52	0.023	0.1843	0.0837	
10/20/2015 9:51	0.023	0.2025	0.0974	
10/20/2015 9:50	0.0231	0.2113	0.0992	
10/20/2015 9:49	0.0231	0.2361	0.0997	
10/20/2015 9:48	0.0231	0.2335	0.0998	
10/20/2015 9:47	0.023	0.2277	0.0995	
10/20/2015 9:46	0.0233	0.2229	0.0985	
10/20/2015 9:45	0.0233	0.2157	0.0947	
10/20/2015 9:44	0.0233	0.2076	0.0854	_
10/20/2015 9:43	0.0233	0.1941	0.0774	
10/20/2015 9:42	0.0233	0.1813	0.0663	
10/20/2015 9:41	0.0233	0.1592	0.0502	_
10/20/2015 9:40	0.0233	0.1522	0.0449	

Monitor 1 & 1R - Upwind

Monitor 2 - Active Work Zone

Monitor 3 - Downwind

### Particulate (Avg 15min) (mg/mA^3) Exceedances

Date and Time	Monitor 1 & 1R Levels	Monitor 2 Levels	Monitor 3 Levels	Likely Cause of Exceedance
10/20/2015 9:39	0.0233	0.1356	0.0397	
10/20/2015 9:38	0.0235	0.1235	0.0392	1
10/20/2015 9:37	0.0235	0.1125	0.0363	1
10/20/2015 9:36	0.0235	0.1047	0.0225	1
10/20/2015 9:35	0.0235	0.1082	0.0207	1
10/20/2015 9:33	0.0235	0.1066	0.0205	1
10/20/2015 9:32	0.0236	0.1232	0.0207	
10/20/2015 9:31	0.0234	0.139	0.0208	
10/20/2015 9:30	0.0234	0.1587	0.0211	
10/20/2015 9:29	0.0235	0.1849	0.0212	
10/20/2015 9:28	0.0235	0.2061	0.0217	
10/20/2015 9:27	0.0236	0.2329	0.0244	
10/20/2015 9:26	0.0238	0.2661	0.0327	
10/20/2015 9:25	0.0239	0.2887	0.0416	
10/20/2015 9:24	0.0238	0.31	0.0482	Smoke filling the PTP building as a
10/20/2015 9:23	0.0236	0.3349	0.0485	result of using a hot pressure washer
10/20/2015 9:22	0.0236	0.3512	0.0492	that had soot on the heating coils
10/20/2015 9:21	0.0237	0.3472	0.0493	
10/20/2015 9:20	0.024	0.3456	0.0494	
10/20/2015 9:19	0.0241	0.3532	0.0494	
10/20/2015 9:18	0.0241	0.3665	0.0502	
10/20/2015 9:17	0.0242	0.3801	0.0517	
10/20/2015 9:16	0.0242	0.4015	0.0636	
10/20/2015 9:15	0.0242	0.4084	0.0649	
10/20/2015 9:14	0.0243	0.4241	0.0661	
10/20/2015 9:13	0.0242	0.4181	0.0768	
10/20/2015 9:12	0.0241	0.4033	0.0798	_
10/20/2015 9:11	0.0239	0.3831	0.0841	_
10/20/2015 9:10	0.0239	0.3716	0.092	_
10/20/2015 9:09	0.0239	0.3577	0.0985	
10/20/2015 9:08	0.0239	0.3589	0.1342	

Monitor 1 & 1R - Upwind

Monitor 2 - Active Work Zone

Monitor 3 - Downwind

### Particulate (Avg 15min) (mg/mA^3) Exceedances

Monitor 2 (Active W	ork Zone) Exceedances			
Date and Time	Monitor 1 & 1R Levels	Monitor 2 Levels	Monitor 3 Levels	Likely Cause of Exceedance
10/20/2015 9:07	0.0238	0.3473	0.1537	
10/20/2015 9:06	0.0236	0.3567	0.1559	7
10/20/2015 9:05	0.0233	0.3556	0.1582	7
10/20/2015 9:04	0.0233	0.3507	0.1623	7
10/20/2015 9:03	0.0233	0.3471	0.1693	7
10/20/2015 9:02	0.0232	0.3272	0.1675	7
10/20/2015 9:01	0.0232	0.3109	0.1554	7
10/20/2015 9:00	0.0231	0.3032	0.1538	
10/20/2015 8:59	0.0229	0.2657	0.1523	1
10/20/2015 8:58	0.0229	0.2705	0.1411	7
10/20/2015 8:57	0.0229	0.2706	0.1352	
10/20/2015 8:56	0.0228	0.2591	0.1225	Smoke filling the PTP building as a
10/20/2015 8:55	0.0227	0.2476	0.1055	result of using a hot pressure washer
10/20/2015 8:54	0.0227	0.2447	0.0925	that had soot on the heating coils
10/20/2015 8:53	0.0226	0.2233	0.0562	
10/20/2015 8:52	0.0226	0.2145	0.0359	
10/20/2015 8:51	0.0225	0.2093	0.0336	
10/20/2015 8:50	0.0225	0.2013	0.0311	
10/20/2015 8:49	0.0223	0.189	0.0268	
10/20/2015 8:48	0.0224	0.1694	0.0188	
10/20/2015 8:47	0.0223	0.1597	0.0188	
10/20/2015 8:46	0.0223	0.1405	0.0189	
10/20/2015 8:45	0.0223	0.1236	0.019	
10/20/2015 8:44	0.0208	0.1209	0.0191	
10/20/2015 8:43	0.0193	0.1013	0.0191	
10/19/2015 14:15		0.1021	0.0072	
10/19/2015 14:14	0.0071	0.1143	0.0072	Smoke filling the PTP building as a
10/19/2015 14:13	0.007	0.1325	0.0072	result of using a hot pressure washer
10/19/2015 14:12	0.007	0.142	0.0072	that had soot on the heating coils
10/19/2015 14:11	0.0071	0.1599	0.0072	7

Monitor 1 & 1R - Upwind

Monitor 2 - Active Work Zone

Monitor 3 - Downwind

### Particulate (Avg 15min) (mg/mA^3) Exceedances

•	ork Zone) Exceedances			
Date and Time	Monitor 1 & 1R Levels	Monitor 2 Levels	Monitor 3 Levels	Likely Cause of Exceedance
10/19/2015 14:10	0.0072	0.1787	0.0072	
10/19/2015 14:09	0.0071	0.198	0.0071	
10/19/2015 14:08	0.0068	0.2239	0.0071	
10/19/2015 14:07	0.0067	0.255	0.0071	
10/19/2015 14:06	0.0068	0.2691	0.0071	
10/19/2015 14:05		0.2925	0.007	
10/19/2015 14:04	0.0068	0.2945	0.0069	
10/19/2015 14:03	0.0076	0.3256	0.007	
10/19/2015 14:02	0.0077	0.3397	0.0071	
10/19/2015 14:01	0.0078	0.3323	0.0071	
10/19/2015 14:00	0.0079	0.3221	0.0072	
10/19/2015 13:59	0.0081	0.308	0.0072	
10/19/2015 13:58	0.0083	0.2879	0.0072	
10/19/2015 13:57	0.0084	0.2755	0.0071	
10/19/2015 13:56	0.0084	0.2547	0.0069	
10/19/2015 13:55		0.233	0.0069	
10/19/2015 13:54	0.008	0.2093	0.0068	
10/19/2015 13:53	0.0079	0.1766	0.0068	Smoke filling the PTP building as a
10/19/2015 13:52	0.0078	0.1377	0.0069	result of using a hot pressure washer
10/19/2015 13:51	0.0081	0.1173	0.007	that had soot on the heating coils
10/19/2015 12:03	0.0045	0.1216	0.0333	
10/19/2015 12:02	0.0057	0.1359	0.0354	
10/19/2015 12:01	0.0072	0.216	0.0378	
10/19/2015 12:00	0.007	0.265	0.0436	
10/19/2015 11:59	0.0082	0.3709	0.0632	
10/19/2015 11:58		0.37	0.0631	
10/19/2015 11:57		0.3694	0.0631	
10/19/2015 11:56		0.3681	0.0625	
10/19/2015 11:55	0.0071	0.3643	0.0622	
10/19/2015 11:54	0.0069	0.3617	0.0585	
10/19/2015 11:53	0.0072	0.3669	0.0583	
10/19/2015 11:52	0.0076	0.3576	0.0578	
10/19/2015 11:51	0.0076	0.3504	0.0525	7
10/19/2015 11:50		0.3482	0.0496	7
10/19/2015 11:49	0.008	0.3085	0.0347	7
10/19/2015 11:48	0.007	0.2754	0.0315	7
10/19/2015 11:49	0.006	0.2629	0.0294	7
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AST Decommissioning Report Former CIBA-GEIGY/HERCULES Plant Site Queensbury, New York Antea Group Project No. GLENSFA151



# Appendix H

**Data Usability Summary Report** 

### **LETTER OF TRANSMITTAL**



### **ALPHA GEOSCIENCE**

679 Plank Road Clifton Park, NY 12065 (518) 348 -6995 Phone (518) 348-6966 FAX

ALPHA			(518) 348-6966 FAX			
GEOSCIE		(	010) 040-00	00 FAA		
TO:	Ms Carolyn Clemmens Antea Group 5788 Widewaters Parkway, 2nd Floor Syracuse, New York 13214		FROM:	Don Anne'		
			DATE:	3/10/2016		
			SUBJECT:	Data Validation		
				Glens Falls Oct-Dec 2015 Water Sampling Events		
WE ARE T	RANSMITTI	ING	Photograph	ns	Letter(s)	
THE FOLLOWING ITEMS:			Maps/Plans Report(s)		Disk(s) Other	
Originals	Copies		De	escription of Materials		
1	ALS Environmental data pack, Service Request No. R1509357					
1		ALS Environmental data pad	ck, Service Re	equest No. R1509522		
1	ALS Environmental data pack, Service Request No. R1509579					
11	ALS Environmental data pack, Service Request No. R1509909					
1	ALS Environmental data pack, Service Request No. R1510060					
1	ALS Environmental data pack, Service Request No. R1510260					
1		ALS Environmental data pac	ck, Service Re	equest No. R1510352		
	These Materi	ials are Transmitted:				
		_For your use			Approved as submitted	
		_ For your approval		***************************************	Approved as noted	
		_For your review and commer	nt		Returned after loaned to us  Returned for revision	
Please:		Return original to us			B. Calle C. Louis Cl. L.	
Fibacc.	Submit after revision				Retain for your files Other	
REMARKS:						
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Geology

Hydrology

Remediation

Water Supply

March 10, 2016

Ms. Carolyn Clemmens Staff Professional Antea Group 5788 Widewaters Parkway, 2<sup>nd</sup> Floor Syracuse, New York 13214

Re:

Data Validation Report

Glens Falls

October-December 2015 Water Sampling Events

Dear Ms. Clemmens:

The data usability summary reports (DUSRs) and data validation summaries are attached to this letter for Glens Falls, October-December 2015 water sampling events. The data for the following ALS Environmental, services request numbers were acceptable with minor issues that are identified and discussed in the validation summaries.

R1509357

R1509522

R1509579

R1509909

R1510060

R1510260

R1510352

There were no data that were qualified as either estimated (J) or unusable, rejected (R) in the data packs. A list of common data validation acronyms is attached to this letter to assist you in interpreting the validation summaries. If you have any questions concerning the work performed, please contact me at (518) 348-6995. Thank you for the opportunity to assist the Antea Group.

Sincerely,

Alpha Geoscience

Donald Time

Donald Anné

Senior Chemist

DCA:dca attachments

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### **Data Validation Acronyms**

Atomic absorption, flame technique AA Hexachlorocyclohexane **BHC** Bromofluorobenzene BFB Continuing calibration blank **CCB** Calibration check compound **CCC** Continuing calibration verification **CCV** Cyanide CN Contract required detection limit **CRDL** Contract required quantitation limit **CROL** Atomic adsorption, cold vapor technique **CVAA** 2,4-Dichlophenylacetic acid **DCAA** Decachlorobiphenyl DCB Decafluorotriphenyl phosphine **DFTPP** Electron capture detector **ECD** Atomic absorption, furnace technique FAA Flame ionization detector **FID** 1-Fluoronaphthalene **FNP** Gas chromatography GC Gas chromatography/mass spectrometry GC/MS Gel permeation chromatography **GPC** Initial calibration blank **ICB** Inductively coupled plasma-atomic emission spectrometer **ICP** Initial calibration verification **ICV** Instrument detection limit **IDL** Internal standard IS Laboratory control sample LCS Laboratory control sample/laboratory control sample duplicate LCS/LCSD Method of standard additions **MSA** Matrix spike/matrix spike duplicate MS/MSD Photo ionization detector PID Polychlorinated biphenyl **PCB** Polychlorinated dibenzodioxins **PCDD** Polychlorinated dibenzofurans **PCDF** Quality assurance QA Quality control QC Response factor RF Relative percent difference **RPD** Relative response factor **RRF** Relative response factor at concentration of the number following RRF(number) Retention time RT Relative retention time **RRT** Sample delivery group **SDG** System performance check compound **SPCC** Tetrachloro-m-xylene TCX Percent difference %D Percent recovery %R

%RSD

Percent relative standard deviation

### Data Validation Qualifiers Used in the QA/QC Reviews for USEPA Region II

- U = Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
- R = Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.
- N = Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts.
- J = Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
- UJ = Not detected, quantitation limit may be inaccurate or imprecise.

Note: These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.



Geology

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Remediation

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### Data Usability Summary Report for ALS Environmental Service Request No. R1509357

3 Water Samples Collected October 30, 2015

Prepared by: Donald Anné March 10, 2016

The data package contains the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. The information appeared legible and complete. The data pack contained the results of 3 water samples analyzed for TAL metals, hexavalent chromium, and total cyanide.

The overall performances of the analyses are acceptable. ALS Environmental did fulfill the requirements of the analytical methods.

The data are acceptable with no issues identified in the accompanying data validation reviews. There were no data that were flagged as either estimated (J) or unusable, rejected (R); therefore, all data are considered usable. Detailed information on data quality is included in the data validation reviews.

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# QA/QC Review of TAL Metals Data for ALS Environmental, Service Request No: R1509357

### 3 Water Samples Collected October 30, 2015

Prepared by: Donald Anné March 10, 2016

Geology

Hydrology

Remediation

Water Supply

- Holding Times: Samples were analyzed within USEPA SW846 holding times.
- <u>Initial and Continuing Calibration Verification</u>: The percent recoveries for TAL metals were within control limits (90-110% for all metals except Hg, 80-120% for Hg).
- <u>CRDL Standard for AA and ICP</u>: The percent recoveries for target metals were within laboratory QC limits (70-130%).
- <u>Blanks</u>: The analyses of initial and continuing calibration, and preparation blanks reported TAL metals as not detected.
- ICP Interference Check Sample: The percent recoveries for applicable metals were within control limits (80-120%).
- Spike Sample Recovery: The percent recoveries for target metals were within control limits (75-125%) for aqueous spike sample Vessel 2S. (This data is from SR No. R1509522.)
- Post Digest Spike Sample Recovery: The percent recoveries for target metals were within control limits (80-120%) for aqueous spike sample Vessel 2A. (This data is from SR No. R1509522.)
- <u>Laboratory Duplicates</u>: The relative percent differences for applicable metals were below the allowable maximum (20%) in aqueous duplicate sample Vessel 2D, as required. (This data is from SR No. R1509522.)
- <u>Laboratory Control Sample</u>: The percent recoveries for TAL metals were within control limits (80-120%) for aqueous LCS.
- ICP Serial Dilution: The %Ds for applicable metals were below the allowable maximum (10%) for aqueous serial dilution sample Vessel 2L, as required. (This data is from SR No. R1509522.)

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QA/QC Review of Hexavalent Chromium Data for ALS Environmental, Service Request No: R1509357

3 Water Samples Collected October 30, 2015

Prepared by: Donald Anné March 10, 2016

Geology

Hydrology

Remediation

Water Supply

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

Continuing Calibration Verification: The percent recoveries for hexavalent chromium were within control limits (90-110%).

<u>Blanks</u>: The analyses continuing calibration and method blanks reported hexavalent chromium as not detected.

Spike Sample Recovery: The percent recovery for hexavalent chromium was within control limits (75-125%) for aqueous spike sample Test-2.

<u>Laboratory Duplicates</u>: The relative percent difference for hexavalent chromium was below the allowable maximum (20%) for aqueous duplicate sample Test-2, as required.

<u>Laboratory Control Sample</u>: The percent recovery for hexavalent chromium was within control limits (80-120%) for aqueous sample R1509357-LCS1.

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## QA/QC Review of Total Cyanide Data for ALS Environmental, Service Request No: R1509357

3 Water Samples Collected October 30, 2015

Prepared by: Donald Anné March 10, 2016

Geology

Hydrology

Remediation

Water Supply

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

Continuing Calibration Verification: The percent recoveries for total cyanide were within control limits (85-115%).

Blanks: The analyses of continuing calibration and method blanks reported total cyanide as not detected.

Spike Sample Recovery: The percent recovery for total cyanide were within control limits (80-120%) for aqueous spike sample Vessel 2. (This data is from SR No. R1509522.)

<u>Laboratory Duplicates</u>: The relative percent difference for total cyanide was below the allowable maximum (20%) for aqueous duplicate sample Vessel 2, as required. (This data is from SR No. R1509522.)

<u>Laboratory Control Sample</u>: The percent recoveries for total cyanide were within control limits (80-120%) for aqueous samples R1509357-LCS1 and R1509357-LCS2.

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Hydrology

Remediation

Water Supply

#### Data Usability Summary Report for ALS Environmental Service Request No. R1509522

#### 2 Water Samples and 1 Field Duplicate Collected November 4, 2015

Prepared by: Donald Anné March 10, 2016

The data package contains the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. The information appeared legible and complete. The data pack contained the results of 2 water samples and 1 field duplicate analyzed for TAL metals, hexavalent chromium, and total cyanide.

The overall performances of the analyses are acceptable. ALS Environmental did fulfill the requirements of the analytical methods.

The data are acceptable with no issues identified in the accompanying data validation reviews. There were no data that were flagged as either estimated (J) or unusable, rejected (R); therefore, all data are considered usable. Detailed information on data quality is included in the data validation reviews.

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### QA/QC Review of TAL Metals Data for ALS Environmental, Service Request No: R1509522

#### 2 Water Samples and 1 Field Duplicate Collected November 4, 2015

Prepared by: Donald Anné March 10, 2016

Geology

Hydrology

Remediation

Water Supply

- Holding Times: Samples were analyzed within USEPA SW846 holding times.
- <u>Initial and Continuing Calibration Verification</u>: The percent recoveries for TAL metals were within control limits (90-110% for all metals except Hg, 80-120% for Hg).
- <u>CRDL Standard for AA and ICP</u>: The percent recoveries for target metals were within laboratory QC limits (70-130%).
- <u>Blanks</u>: The analyses of initial and continuing calibration, and preparation blanks reported TAL metals as not detected.
- ICP Interference Check Sample: The percent recoveries for applicable metals were within control limits (80-120%).
- <u>Spike Sample Recovery</u>: The percent recoveries for target metals were within control limits (75-125%) for aqueous spike sample Vessel 2S.
- <u>Post Digest Spike Sample Recovery</u>: The percent recoveries for target metals were within control limits (80-120%) for aqueous spike sample Vessel 2A.
- <u>Laboratory Duplicates</u>: The relative percent differences for applicable metals were below the allowable maximum (20%) in aqueous duplicate sample Vessel 2D, as required.
- <u>Field Duplicates</u>: The relative percent differences for applicable metals were below the allowable maximum (20%) for field duplicate pair Vessel 2/DUP110415 (attached table), as required.
- <u>Laboratory Control Sample</u>: The percent recoveries for TAL metals were within control limits (80-120%) for aqueous LCS.
- ICP Serial Dilution: The %Ds for applicable metals were below the allowable maximum (10%) for aqueous serial dilution sample Vessel 2L, as required.

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#### **TAL Metals**

### Calculations for Field Duplicate Relative Percent Difference (RPD) SDG No. R1509522

S	1= Vessel 2	S2=	DUP110415
Analyte	<u>S1</u>	<u>S2</u>	<u>RPD (%)</u>
aluminum	ND	ND	NC
antimony	ND	ND	NC
arsenic	ND	ND	NC
barium	32.1	32.6	2%
beryllium	ND	ND	NC
cadmium	ND	ND	NC
calcium	6640	6840	3%
chromium	95.6	102	6%
cobalt	ND	ND	NC
copper	ND	ND	NC
iron	1010	860	16%
lead	ND	ND	NC
magnesium	1390	1430	3%
manganese	76.3	73.4	4%
mercury	ND	ND	NC
nickel	ND	ND	NC
potassium	ND	ND	NC
selenium	ND	ND	NC
silver	ND	ND	NC
sodium	18900	18800	1%
thallium	ND	ND	NC
vanadium	ND	ND	NC
zinc	ND	ND	NC

All results are in units of ug/L.

### **Hexavalent Chromium & Total cyanide**

<u>Analyte</u>	<u>S1</u>	<u>S2</u>	<u>RPD (%)</u>
hexavalent chromium	0.071	0.068	4%
total cyanide	0.139	0.133	4%

All results are in units of mg/L.

Bold numbers were values that below the CRDL.

ND - Not detected.

NC - Not calculated, both results must be above the CRDL for valid RPDs to be calculated.

<sup>\*</sup> RPD is above the allowable maximum (20%)



Hydrology

Remediation

Water Supply

# QA/QC Review of Hexavalent Chromium Data for ALS Environmental, Service Request No: R1509522

#### 2 Water Samples and 1 Field Duplicate Collected November 4, 2015

Prepared by: Donald Anné March 10, 2016

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

<u>Continuing Calibration Verification</u>: The percent recoveries for hexavalent chromium were within control limits (90-110%).

<u>Blanks</u>: The analyses continuing calibration and method blanks reported hexavalent chromium as not detected.

<u>Spike Sample Recovery</u>: The percent recovery for hexavalent chromium was within control limits (75-125%) for aqueous spike sample Vessel 2.

<u>Laboratory Duplicates</u>: The relative percent difference for hexavalent chromium was below the allowable maximum (20%) for aqueous duplicate sample Vessel 2, as required.

<u>Field Duplicates</u>: The relative percent difference for hexavalent chromium was below the allowable maximum (20%) for field duplicate pair Vessel 2/DUP110415 (attached table), as required.

<u>Laboratory Control Sample</u>: The percent recovery for hexavalent chromium was within control limits (80-120%) for aqueous sample R1509522-LCS1.

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### QA/QC Review of Total Cyanide Data for ALS Environmental, Service Request No: R1509522

#### 2 Water Samples and 1 Field Duplicate Collected November 4, 2015

Prepared by: Donald Anné March 10, 2016

Geology

Hydrology

Remediation

Water Supply

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

Continuing Calibration Verification: The percent recoveries for total cyanide were within control limits (85-115%).

<u>Blanks</u>: The analyses of continuing calibration and method blanks reported total cyanide as not detected.

Spike Sample Recovery: The percent recovery for total cyanide were within control limits (80-120%) for aqueous spike sample Vessel 2.

<u>Laboratory Duplicates</u>: The relative percent difference for total cyanide was below the allowable maximum (20%) for aqueous duplicate sample Vessel 2, as required.

<u>Field Duplicates</u>: The relative percent difference for total cyanide was below the allowable maximum (20%) for field duplicate pair Vessel 2/DUP110415 (attached table), as required.

<u>Laboratory Control Sample</u>: The percent recoveries for total cyanide were within control limits (80-120%) for aqueous samples R1509522-LCS1 and R1509522-LCS2.

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Hydrology

Remediation

Water Supply

#### Data Usability Summary Report for ALS Environmental Service Request No. R1509579

3 Water Samples Collected November 5, 2015

Prepared by: Donald Anné March 10, 2016

The data package contains the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. The information appeared legible and complete. The data pack contained the results of 3 water samples analyzed for TAL metals, hexavalent chromium, and total cyanide.

The overall performances of the analyses are acceptable. ALS Environmental did fulfill the requirements of the analytical methods.

The data are acceptable with no issues identified in the accompanying data validation reviews. There were no data that were flagged as either estimated (J) or unusable, rejected (R); therefore, all data are considered usable. Detailed information on data quality is included in the data validation reviews.

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### QA/QC Review of TAL Metals Data for ALS Environmental, Service Request No: R1509579

#### 3 Water Samples Collected November 5, 2015

Prepared by: Donald Anné March 10, 2016

Geology

Hydrology

Remediation

Water Supply

- Holding Times: Samples were analyzed within USEPA SW846 holding times.
- <u>Initial and Continuing Calibration Verification</u>: The percent recoveries for TAL metals were within control limits (90-110% for all metals except Hg, 80-120% for Hg).
- <u>CRDL Standard for AA and ICP</u>: The percent recoveries for target metals were within laboratory QC limits (70-130%).
- Blanks: The analyses of initial and continuing calibration, and preparation blanks reported TAL metals as not detected.
- <u>ICP Interference Check Sample</u>: The percent recoveries for applicable metals were within control limits (80-120%).
- <u>Spike Sample Recovery</u>: The percent recoveries for target metals were within control limits (75-125%) for aqueous spike sample NW-1S.
- <u>Post Digest Spike Sample Recovery</u>: The percent recoveries for target metals were within control limits (80-120%) for aqueous spike sample NW-1A.
- <u>Laboratory Duplicates</u>: The relative percent differences for applicable metals were below the allowable maximum (20%) in aqueous duplicate sample NW-1D, as required.
- <u>Laboratory Control Sample</u>: The percent recoveries for TAL metals were within control limits (80-120%) for aqueous LCS.
- ICP Serial Dilution: The %Ds for applicable metals were below the allowable maximum (10%) for aqueous serial dilution sample MW-1L, as required.

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### QA/QC Review of Hexavalent Chromium Data for ALS Environmental, Service Request No: R1509579

#### 3 Water Samples Collected November 5, 2015

Prepared by: Donald Anné March 10, 2016

Geology

Hydrology

Remediation

Water Supply

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

Continuing Calibration Verification: The percent recoveries for hexavalent chromium were within control limits (90-110%).

<u>Blanks</u>: The analyses continuing calibration and method blanks reported hexavalent chromium as not detected.

<u>Spike Sample Recovery</u>: The percent recovery for hexavalent chromium was within control limits (75-125%) for aqueous spike sample NE-2.

<u>Laboratory Duplicates</u>: The analysis of aqueous duplicate sample NE-2 was acceptable.

<u>Laboratory Control Sample</u>: The percent recovery for hexavalent chromium was within control limits (80-120%) for aqueous sample R1509579-LCS1.

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## QA/QC Review of Total Cyanide Data for ALS Environmental, Service Request No: R1509579

#### 3 Water Samples Collected November 5, 2015

Prepared by: Donald Anné March 10, 2016

Geology

Hydrology

Remediation

Water Supply

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

Continuing Calibration Verification: The percent recoveries for total cyanide were within control limits (85-115%).

<u>Blanks</u>: The analyses of continuing calibration and method blanks reported total cyanide as not detected.

Spike Sample Recovery: The percent recovery for total cyanide were within control limits (80-120%) for aqueous spike sample Vessel 2. (This data is from SR No. R1509522.)

<u>Laboratory Duplicates</u>: The relative percent difference for total cyanide was below the allowable maximum (20%) for aqueous duplicate sample Vessel 2, as required. (This data is from SR No. R1509522.)

<u>Laboratory Control Sample</u>: The percent recoveries for total cyanide were within control limits (80-120%) for aqueous samples R1509579-LCS1 and R1509579-LCS2.

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Hydrology

Remediation

Water Supply

#### Data Usability Summary Report for ALS Environmental Service Request No. R1509909

2 Water Samples Collected November 13, 2015

Prepared by: Donald Anné March 10, 2016

The data package contains the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. The information appeared legible and complete. The data pack contained the results of 2 water samples analyzed for TAL metals, hexavalent chromium, and total cyanide.

The overall performances of the analyses are acceptable. ALS Environmental did fulfill the requirements of the analytical methods.

The data are acceptable with no issues identified in the accompanying data validation reviews. There were no data that were flagged as either estimated (J) or unusable, rejected (R); therefore, all data are considered usable. Detailed information on data quality is included in the data validation reviews.

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### QA/QC Review of TAL Metals Data for ALS Environmental, Service Request No: R1509909

#### 2 Water Samples Collected November 13, 2015

Prepared by: Donald Anné March 10, 2016

Geology

Hydrology

Remediation

Water Supply

- Holding Times: Samples were analyzed within USEPA SW846 holding times.
- <u>Initial and Continuing Calibration Verification</u>: The percent recoveries for TAL metals were within control limits (90-110% for all metals except Hg, 80-120% for Hg).
- <u>CRDL Standard for AA and ICP</u>: The percent recoveries for target metals were within laboratory QC limits (70-130%).
- <u>Blanks</u>: The analyses of initial and continuing calibration, and preparation blanks reported TAL metals as not detected.
- <u>ICP Interference Check Sample</u>: The percent recoveries for applicable metals were within control limits (80-120%).
- Spike Sample Recovery: The percent recoveries for target metals were within control limits (75-125%) for aqueous spike sample NW-1S. (This data is from SR No. R1509579.)
- <u>Post Digest Spike Sample Recovery</u>: The percent recoveries for target metals were within control limits (80-120%) for aqueous spike sample NW-1A. (This data is from SR No. R1509579.)
- <u>Laboratory Duplicates</u>: The relative percent differences for target metals were below the allowable maximum (20%) in aqueous duplicate sample LCSWD, as required.
- <u>Laboratory Control Sample</u>: The percent recoveries for TAL metals were within control limits (80-120%) for aqueous LCS and LCSD.
- ICP Serial Dilution: The %Ds for applicable metals were below the allowable maximum (10%) for aqueous serial dilution sample SE-2L, as required.

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# QA/QC Review of Hexavalent Chromium Data for ALS Environmental, Service Request No: R1509909

#### 2 Water Samples Collected November 13, 2015

Prepared by: Donald Anné March 10, 2016

Geology

Hydrology

Remediation

Water Supply

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

Continuing Calibration Verification: The percent recoveries for hexavalent chromium were within control limits (90-110%).

<u>Blanks</u>: The analyses continuing calibration and method blanks reported hexavalent chromium as not detected.

<u>Spike Sample Recovery</u>: The percent recovery for hexavalent chromium was within control limits (75-125%) for aqueous spike sample SE-1.

<u>Laboratory Duplicates</u>: The analysis of aqueous duplicate sample SE-1 was acceptable.

<u>Laboratory Control Sample</u>: The percent recovery for hexavalent chromium was within control limits (80-120%) for aqueous sample R1509909-LCS1.

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### QA/QC Review of Total Cyanide Data for ALS Environmental, Service Request No: R1509909

#### 2 Water Samples Collected November 13, 2015

Prepared by: Donald Anné March 10, 2016

Geology

Hydrology

Remediation

Water Supply

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

Continuing Calibration Verification: The percent recoveries for total cyanide were within control limits (85-115%).

Blanks: The analyses of continuing calibration and method blanks reported total cyanide as not detected.

Spike Sample Recovery: The percent recovery for total cyanide were within control limits (80-120%) for aqueous spike sample Vessel 2. (This data is from SR No. R1509522.)

<u>Laboratory Duplicates</u>: The relative percent difference for total cyanide was below the allowable maximum (20%) for aqueous duplicate sample Vessel 2, as required. (This data is from SR No. R1509522.)

<u>Laboratory Control Sample</u>: The percent recoveries for total cyanide were within control limits (80-120%) for aqueous samples R1509909-LCS1 and R1509909-LCS2.

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Hydrology

Remediation

Water Supply

#### Data Usability Summary Report for ALS Environmental Service Request No. R1510060

2 Water Samples Collected November 18, 2015

Prepared by: Donald Anné March 10, 2016

The data package contains the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. The information appeared legible and complete. The data pack contained the results of 2 water samples analyzed for TAL metals, hexavalent chromium, and total cyanide.

The overall performances of the analyses are acceptable. ALS Environmental did fulfill the requirements of the analytical methods.

The data are acceptable with no issues identified in the accompanying data validation reviews. There were no data that were flagged as either estimated (J) or unusable, rejected (R); therefore, all data are considered usable. Detailed information on data quality is included in the data validation reviews.

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### QA/QC Review of TAL Metals Data for ALS Environmental, Service Request No: R1510060

#### 2 Water Samples Collected November 18, 2015

Prepared by: Donald Anné Hydrology

March 10, 2016

Geology

Remediation

Water Supply

Holding Times: Samples were analyzed within USEPA SW846 holding times.

- Initial and Continuing Calibration Verification: The percent recoveries for TAL metals were within control limits (90-110% for all metals except Hg, 80-120% for Hg).
- CRDL Standard for AA and ICP: The percent recoveries for target metals were within laboratory OC limits (70-130%).
- Blanks: The analyses of initial and continuing calibration, and preparation blanks reported TAL metals as not detected.
- ICP Interference Check Sample: The percent recoveries for applicable metals were within control limits (80-120%).
- Spike Sample Recovery: The percent recovery (%R) for mercury was within control limits (75-125%) for aqueous spike sample SW-1S.
  - The %Rs for target metals were within control limits (75-125%) for aqueous spike sample NW-1S. (This data is from SR No. R1509579.)
- Post Digest Spike Sample Recovery: The percent recoveries for target metals were within control limits (80-120%) for aqueous spike sample NW-1A. (This data is from SR No. R1509579.)
- Laboratory Duplicates: The relative percent differences for applicable metals were below the allowable maximum (20%) in aqueous duplicate sample NW-1D, as required. (This data is from SR No. R1509579.)

<u>Laboratory Control Sample</u>: The percent recoveries for TAL metals were within control limits (80-120%) for aqueous LCS.

ICP Serial Dilution: The %Ds for applicable metals were below the allowable maximum (10%) for aqueous serial dilution sample SW-2L, as required.



QA/QC Review of Hexavalent Chromium Data for ALS Environmental, Service Request No: R1510060

2 Water Samples Collected November 18, 2015

Prepared by: Donald Anné March 10, 2016

Geology

Hydrology

Remediation

Water Supply

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

Continuing Calibration Verification: The percent recoveries for hexavalent chromium were within control limits (90-110%).

Blanks: The analyses continuing calibration and method blanks reported hexavalent chromium as not detected.

Spike Sample Recovery: The percent recovery for hexavalent chromium was within control limits (75-125%) for aqueous spike sample SE-1. (This data is from SR No. R1509909.)

<u>Laboratory Duplicates</u>: The analysis of aqueous duplicate sample SE-1 was acceptable. (This data is from SR No. R1509909.)

<u>Laboratory Control Sample</u>: The percent recovery for hexavalent chromium was within control limits (80-120%) for aqueous sample R1510060-LCS1.



### QA/QC Review of Total Cyanide Data for ALS Environmental, Service Request No: R1510060

#### 2 Water Samples Collected November 18, 2015

Prepared by: Donald Anné March 10, 2016

Geology

Hydrology

Remediation

Water Supply

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

Continuing Calibration Verification: The percent recoveries for total cyanide were within control limits (85-115%).

<u>Blanks</u>: The analyses of continuing calibration and method blanks reported total cyanide as not detected.

Spike Sample Recovery: The percent recovery for total cyanide were within control limits (80-120%) for aqueous spike sample SW-1.

<u>Laboratory Duplicates</u>: The analysis of aqueous duplicate sample SW-1 was acceptable.

<u>Laboratory Control Sample</u>: The percent recoveries for total cyanide were within control limits (80-120%) for aqueous samples R1510060-LCS1 and R1510060-LCS2.

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Hydrology

Remediation

Water Supply

#### Data Usability Summary Report for ALS Environmental Service Request No. R1510260

1 Water Sample Collected November 24, 2015

Prepared by: Donald Anné March 10, 2016

The data package contains the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. The information appeared legible and complete. The data pack contained the results of 1 water sample analyzed for TAL metals, hexavalent chromium, and total cyanide.

The overall performances of the analyses are acceptable. ALS Environmental did fulfill the requirements of the analytical methods.

The data are acceptable with no issues identified in the accompanying data validation reviews. There were no data that were flagged as either estimated (J) or unusable, rejected (R); therefore, all data are considered usable. Detailed information on data quality is included in the data validation reviews.

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### QA/QC Review of TAL Metals Data for ALS Environmental, Service Request No: R1510260

#### 1 Water Sample Collected November 24, 2015

Prepared by: Donald Anné March 10, 2016

Geology

Hydrology

Remediation

Water Supply

- Holding Times: The sample was analyzed within USEPA SW846 holding times.
- <u>Initial and Continuing Calibration Verification</u>: The percent recoveries for TAL metals were within control limits (90-110% for all metals except Hg, 80-120% for Hg).
- <u>CRDL Standard for AA and ICP</u>: The percent recoveries for target metals were within laboratory QC limits (70-130%).
- <u>Blanks</u>: The analyses of initial and continuing calibration, and preparation blanks reported TAL metals as not detected.
- ICP Interference Check Sample: The percent recoveries for applicable metals were within control limits (80-120%).
- Spike Sample Recovery: The percent recoveries for target metals were within control limits (75-125%) for aqueous spike sample NW-1S. (This data is from SR No. R1509579.)
- <u>Post Digest Spike Sample Recovery</u>: The percent recoveries for target metals were within control limits (80-120%) for aqueous spike sample NW-1A. (This data is from SR No. R1509579.)
- <u>Laboratory Duplicates</u>: The relative percent differences for applicable metals were below the allowable maximum (20%) in aqueous duplicate sample NW-1D, as required. (This data is from SR No. R1509579.)
- <u>Laboratory Control Sample</u>: The percent recoveries for TAL metals were within control limits (80-120%) for aqueous LCS.
- ICP Serial Dilution: The %Ds for applicable metals were below the allowable maximum (10%) for aqueous serial dilution sample NE FLOORL, as required.

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# QA/QC Review of Hexavalent Chromium Data for ALS Environmental, Service Request No: R1510260

1 Water Sample Collected November 24, 2015

Prepared by: Donald Anné March 10, 2016

Geology

Hydrology

Remediation

Water Supply

Holding Times: The sample was analyzed within the USEPA SW846 holding time.

<u>Continuing Calibration Verification</u>: The percent recoveries for hexavalent chromium were within control limits (90-110%).

<u>Blanks</u>: The analyses continuing calibration and method blanks reported hexavalent chromium as not detected.

<u>Spike Sample Recovery</u>: The percent recovery for hexavalent chromium was within control limits (75-125%) for aqueous spike sample NE FLOOR.

<u>Laboratory Duplicates</u>: The analysis of aqueous duplicate sample NE FLOOR was acceptable.

<u>Laboratory Control Sample</u>: The percent recovery for hexavalent chromium was within control limits (80-120%) for aqueous sample R1510260-LCS1.

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## QA/QC Review of Total Cyanide Data for ALS Environmental, Service Request No: R1510260

#### 1 Water Sample Collected November 24, 2015

Prepared by: Donald Anné

March 10, 2016

Geology

Hydrology

Remediation

Water Supply

Holding Times: The sample was analyzed within the USEPA SW846 holding time.

Continuing Calibration Verification: The percent recoveries for total cyanide were within control limits (85-115%).

<u>Blanks</u>: The analyses of continuing calibration and method blanks reported total cyanide as not detected.

Spike Sample Recovery: The percent recovery for total cyanide were within control limits (80-120%) for aqueous spike sample SW-1. (This data is from SR No. R1510060.)

<u>Laboratory Duplicates</u>: The analysis of aqueous duplicate sample SW-1 was acceptable. (This data is from SR No. R1510060.)

<u>Laboratory Control Sample</u>: The percent recoveries for total cyanide were within control limits (80-120%) for aqueous samples R1510260-LCS1 and R1510260-LCS2.

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Hydrology

Remediation

Water Supply

# Data Usability Summary Report for ALS Environmental Service Request No. R1510352

3 Water Samples Collected November 30 and December 1, 2015

> Prepared by: Donald Anné March 10, 2016

The data package contains the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. The information appeared legible and complete. The data pack contained the results of 3 water samples analyzed for TAL metals, hexavalent chromium, and total cyanide.

The overall performances of the analyses are acceptable. ALS Environmental did fulfill the requirements of the analytical methods.

The data are acceptable with no issues identified in the accompanying data validation reviews. There were no data that were flagged as either estimated (J) or unusable, rejected (R); therefore, all data are considered usable. Detailed information on data quality is included in the data validation reviews.



Hydrology

Remediation

Water Supply

### QA/QC Review of TAL Metals Data for ALS Environmental, Service Request No: R1510352

#### 3 Water Sample Collected November 30 and December 1, 2015

Prepared by: Donald Anné March 10, 2016

- Holding Times: Samples were analyzed within USEPA SW846 holding times.
- <u>Initial and Continuing Calibration Verification</u>: The percent recoveries for TAL metals were within control limits (90-110% for all metals except Hg, 80-120% for Hg).
- <u>CRDL Standard for AA and ICP</u>: The percent recoveries for target metals were within laboratory QC limits (70-130%).
- <u>Blanks</u>: The analyses of initial and continuing calibration, and preparation blanks reported TAL metals as not detected.
- ICP Interference Check Sample: The percent recoveries for applicable metals were within control limits (80-120%).
- Spike Sample Recovery: The percent recoveries for target metals were within control limits (75-125%) for aqueous spike sample NW-1S. (This data is from SR No. R1509579.)
- <u>Post Digest Spike Sample Recovery</u>: The percent recoveries for target metals were within control limits (80-120%) for aqueous spike sample NW-1A. (This data is from SR No. R1509579.)
- <u>Laboratory Duplicates</u>: The relative percent differences for applicable metals were below the allowable maximum (20%) in aqueous duplicate sample NW-1D, as required. (This data is from SR No. R1509579.)
- <u>Laboratory Control Sample</u>: The percent recoveries for TAL metals were within control limits (80-120%) for aqueous LCS.
- ICP Serial Dilution: The %Ds for applicable metals were below the allowable maximum (10%) for aqueous serial dilution sample SE-FLOORL, as required.

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QA/QC Review of Hexavalent Chromium Data for ALS Environmental, Service Request No: R1510352

3 Water Samples Collected December 1, 2015

Prepared by: Donald Anné March 10, 2016

Geology

Hydrology

Remediation

Water Supply

Holding Times: Sample were analyzed within the USEPA SW846 holding time.

<u>Continuing Calibration Verification</u>: The percent recoveries for hexavalent chromium were within control limits (90-110%).

<u>Blanks</u>: The analyses continuing calibration and method blanks reported hexavalent chromium as not detected.

<u>Spike Sample Recovery</u>: The percent recovery for hexavalent chromium was within control limits (75-125%) for aqueous spike sample SW FLOOR.

<u>Laboratory Duplicates</u>: The analysis of aqueous duplicate sample SW FLOOR was acceptable.

<u>Laboratory Control Sample</u>: The percent recovery for hexavalent chromium was within control limits (80-120%) for aqueous sample R1510352-LCS1.



Hydrology

Remediation

Water Supply

# QA/QC Review of Total Cyanide Data for ALS Environmental, Service Request No: R1510352

### 3 Water Samples Collected November 30 and December 1, 2015

Prepared by: Donald Anné March 10, 2016

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

Continuing Calibration Verification: The percent recoveries for total cyanide were within control limits (85-115%).

<u>Blanks</u>: The analyses of continuing calibration and method blanks reported total cyanide as not detected.

Spike Sample Recovery: The percent recovery for total cyanide were within control limits (80-120%) for aqueous spike sample NW-FLOOR.

<u>Laboratory Duplicates</u>: The analysis of aqueous duplicate sample NW FLOOR was acceptable.

<u>Laboratory Control Sample</u>: The percent recoveries for total cyanide were within control limits (80-120%) for aqueous samples R15103520-LCS1 and R1510352-LCS2.

AST Decommissioning Report Former CIBA-GEIGY/HERCULES Plant Site Queensbury, New York Antea Group Project No. GLENSFA151



### Table 1

**Confirmation Sample Results** 

Table 1 Confirmatory Samples (AST T-110 and Filter Vessels) **Laboratory Analytical Results** 

Analyte	NYSDEC CLASS GA GROUNDWATER STANDARD (ug/L)	NE-1 Northeast Wall	Vessel 1 Sand Filter	Vessel 2 Sand Filter	DUP110415 Vessel 2 Duplicate	NE-2 Northeast Wall	NW-1 Northwest Wall	NW-2 Northwest Wall	SE-1 Southeast Wall	SE-2 Southeast Wall	SW-1 Southwest Wall	SW-2 Southwest Wall	NE FLOOR Northeast Floor	NW Floor Northwest Floor	NW Floor-R <sup>1</sup> Northwest Floor Redo	SW Floor Southwest Floor	SE Floor Southeast Floor
Metals (ug/L)		10/30/2015	11/4/2015	11/4/2015	11/4/2015	11/5/2015	11/5/2015	11/5/2015	11/13/2015	11/13/2015	11/18/2015	11/18/2015	11/24/2015	11/30/2015	12/1/2015	12/1/2015	12/1/2015
Aluminum	100 *	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	120	ND
Antimony	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Barium	1,000	ND	55	32	33	ND	ND	-	ND	ND							
Beryllium	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Cadmium	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Calcium	NS	6,000	6,300	6,600	6,800	4,600	4,900	5,100	6,000	6,100	5,900	6,100	6,600	5,900	-	13,400	13,700
Chromium	50	ND	97	96	102	ND	ND	-	ND	ND							
Cobalt	5 *	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Copper	200	ND	231	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Iron	300	771	7,740	1,010	860	640	430	290	600	610	930	540	160	270	-	660	820
Lead	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	71	-	81	ND
Magnesium	35,000	1,420	1,400	1,400	1,400	1,000	1,100	1,100	1,400	1,500	1,300	1,400	1,200	1,200	-	2,500	2,600
Manganese	300	39	143	76	73	222	215	198	56	62	181	235	42	20	-	37	38
Mercury	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Nickel	100	ND	89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Potassium	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Selenium	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Silver	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Sodium	20,000	13,100	13,500	18,900	18,800	33,100	33,800	33,100	19,800	20,100	14,200	16,000	15,000	5,300	-	8,800	9,100
Thallium	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Vanadium	14 *	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Zinc	<300 **	21	ND	ND	ND	29	ND	60	-	ND	ND						
General Chemistry (mg/L)																	
Chromium, hexavalent	50	ND	12	71	68	ND	NA <sup>1</sup>	ND	ND	ND							
Cyanide, Total	200	ND	60	139	133	ND	ND	-	ND	ND							

ND: Not Detected

170 Exceeds Standard

<sup>\*:</sup> Class A Surface Water Standard

<sup>\*\*:</sup> Site Specific Standard

<sup>-:</sup> Not Analyzed for

NS: No Standard

<sup>&</sup>lt;sup>1</sup>Sample re-analyzed for Hexavalent Chromium due to late delivery of sample to lab (outside hold time)

AST Decommissioning Report Former CIBA-GEIGY/HERCULES Plant Site Queensbury, New York Antea Group Project No. GLENSFA151



### Table 2

Liquid Waste Characterization Summary Results (POTW)

Table 2
Pretreatment Plant Liquid Waste Charazterization Data for POTW
Laboratory Analytical Results

Analyte	POTW Permit - Effluent Limitations - Instantaneous Maxiumum*	PTP AST	FRAC-1	FRAC-2	FRAC-3
VOCs/SVOCs (mg/L)		5/20/2015	10/14/2015	10/29/2015	10/14/2015
Acetone	NL	0.014	ND	0.11	ND
Benzene	0.1	ND	ND	ND	ND
2-Butanone (MEK)	NL	ND	ND	0.17	ND
Chloroform	1	ND	ND	ND	ND
Dimethyl Phthalate	NL	ND	ND	0.18	ND
Ethylbenzene	0.1	ND	ND	ND	ND
Methylene Chloride	1	ND	ND	ND	ND
Toluene	0.1	ND	ND	ND	ND
1,1,1-Trichloroethane	1	ND	ND	ND	ND
Xylenes, Total	0.1	ND	ND	ND	ND
Metals (mg/L)					
Aluminum	NL	60	ND	7.35	0.17
Antimony	10	0.053	ND	ND	ND
Arsenic	0.25	0.041	ND	ND	ND
Barium	NL	5.5	0.861	0.666	0.890
Beryllium	NL	0.0018	ND	ND	ND
Cadmium	0.25	0.17	ND	0.0132	ND
Calcium	500	600	25.3	19.9	25.9
Chromium	1,406,000 = 3.1 lb/day*	12	ND	0.501	0.021
Cobalt	NL	0.15	ND	ND	ND
Copper	1	0.38	ND	0.042	ND
Iron	50	230	0.63	20.0	1.10
Lead	0.8	1.3	ND	0.133	ND
Magnesium	NL	0.035	2.3	3.6	2.4
Manganese	5	3.4	0.012	0.214	0.015
Mercury	0.025	0.012	ND	ND	ND
Nickel	2.3	0.56	ND	ND	ND
Potassium	NL	9	ND	2.8	ND
Selenium	NL	0.012	ND	ND	ND
Silver	0.2	0.0063	ND	ND	ND
Sodium	NL	2.4	ND	9.9	ND
Thallium	NL	ND	ND	ND	ND
Vanadium	NL	3.6	ND	0.15	ND
Zinc	1.5	2.1	ND	0.077	ND
General Chemistry (mg/L)					
Ammonia	40	ND	ND	0.312	ND
рН	6.0 - 9.0	7.95	8.11	7.28	8.11
Phenolics, Total Recoverable	5	ND	0.0077	0.0068	0.0069
Chemical Oxygen Demand	NL	160	16.7	30.5	25.6
Chromium, hexavalent	NL	ND	ND	ND	ND
Cyanide, Total	3	0.04	ND	0.249	ND
Total Suspended Solids	NL	2,200	1.6	85.0	6.6
Sulfide	NL	ND	ND	ND	ND
Biological Oxygen Demand	NL	120** / 47H <sup>1</sup>	ND	2.8	2.6

#### Notes:

POTW Limitations based on Industrial Wastewater Permit No. 002E Effluent Limitations

NL - No limit

ND - Indicates the analyte was analyzed for but not detected

- \* Chromium Limitation per day
- $\ensuremath{^{**}}$  LCS or LCSD is outside acceptable limits
- H Sample prepared outside holding time
- 1. Biochemical Oxygen Demand recovered low for LCS and LCSD. Sample PTP AST was reanalyzed outside of holding time, both sets of data have been reported.

LCS- Lab Control Sample

LCSD- Lab Control Sample Duplicate

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### Table 3

Liquid Waste Characterization Summary Results

Table 3
Pretreatment Plant Liquid Waste Characterization Results
Laboratory Analytical Results

Analyte	NYSDEC CLASS GA GROUNDWATER STANDARD	PTP AST	FRAC-1	FRAC-2	FRAC-3
VOCs/SVOCs (μg/L)		5/20/2015	10/14/2015	10/29/2015	10/14/2015
Acetone	50	14	ND	110	ND
Benzene	1	ND	ND	ND	ND
2-Butanone (MEK)	50	ND	ND	170	ND
Chloroform	7	ND	ND	ND	ND
Dimethyl Phthalate	50	ND	ND	180	ND
Ethylbenzene	5	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND
Xylenes, Total	5	ND	ND	ND	ND
Metals (mg/L)					
Aluminum	2	60	ND	7.35	0.17
Antimony	0.01	0.053	ND	ND	ND
Arsenic	0.05	0.041	ND	ND	ND
Barium	2	5.5	0.861	0.666	0.890
Beryllium	0.003	0.0018	ND	ND	ND
Cadmium	0.01	0.17	ND	0.0132	ND
Calcium	NL	600	25.3	19.9	25.9
Chromium	0.1	12	ND	0.501	0.021
Cobalt	NL	0.15	ND	ND	ND
Copper	1	0.38	ND	0.042	ND
Iron	0.6	230	0.63	20	1.1
Lead	0.05	1.3	ND	0.133	ND
Magnesium	35	0.035	2.3	3.6	2.4
Manganese	1	3.4	0.012	0.214	0.015
Mercury	0.0014	0.012	ND	ND	ND
Nickel	0.2	0.56	ND	ND	ND
Potassium	NL	9	ND	2.8	ND
Selenium	0.02	0.012	ND	ND	ND
Silver	0.1	0.0063	ND	ND	ND
Sodium	20	2.4	ND	9.9	ND
Thallium	0.0005	ND	ND	ND	ND
Vanadium	NL	3.6	ND	0.15	ND
Zinc	5	2.1	ND	0.077	ND
General Chemistry (mg/L)					
Ammonia	NL	ND	ND	0.312	ND
рН	6.5-8.5	7.95	8.11	7.28	8.11
Phenolics, Total Recoverable	0.002	ND	0.0077	0.0068	0.0069
Chemical Oxygen Demand	NL	160	16.7	30.5	25.6
Chromium, hexavalent	0.05	ND	ND	ND	ND
Cyanide, Total	0.2	0.04	ND	0.249	ND
Total Suspended Solids	NL	2,200	1.6	85.0	6.6
Sulfide	1	ND	ND	ND	ND
Biological Oxygen Demand	NL	$120* / 47H^{1}$	ND	2.8	2.6

#### Notes:

NL - No limit

ND - Indicates the analyte was analyzed for but not detected

1. Biochemical Oxygen Demand recovered low for LCS and LCSD. Sample PTP AST was reanalyzed outside of holding time, both sets of data have been reported.

170 Exceeds Standard

<sup>\*-</sup>LCS or LCSD is outside acceptance limits.

H - Sample prepared outside holding time

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### Table 4

Solid Waste Characterization Summary Results

Table 4
Pretreatment Plant Solid Waste Characterization Results
Laboratory Analytical Results

Analyte	Maxiumum Concentration of Contaminants for the Toxicity Characteristic	WC-1 CHIPS-1		BOX-1	BOX-2	
TCLP VOCS <sup>1</sup> (mg/L)		10/15/2015	10/30/2015	11/13/2015	11/13/2015	
2-Butanone (MEK)	200	ND	0.23	-	-	
VOCs (μg/Kg)						
2-Butanone (MEK)	NA	_	150	<u> </u>	_	
2-Hexanone	NA NA		180	-	-	
4-Methyl-2-pentanone	NA NA	<u> </u>	24	-	-	
Acetone	NA NA		160			
	NA NA		29	-	-	
Benzene Ethylbenzene	NA NA	-	270	-	-	
	NA NA		590		-	
Styrene Toluene	NA NA	-	340	-		
					-	
m,p-Xylenes	NA NA	-	550	-	1	
o-Xylene	NA	-	220	-	-	
TCLP Metals <sup>1</sup> (mg/L)						
Arsenic	5	ND	ND	-	-	
Barium	100	12.5	4.3	-	-	
Cadmium	1	0.28	0.15	-	-	
Chromium	5	2.17	ND	-	-	
Lead	5	0.4	0.49	-	-	
Mercury	0.2	ND	ND	-	-	
Selenium	1	ND	ND	-	-	
Silver	5	ND	ND	-	-	
TAL Metals (mg/kg)						
Aluminum	NA	24,900	1,120	-	-	
Antimony	NA	49	43.2	-	-	
Arsenic	NA	ND	1.6	-	-	
Barium	NA	2,040	476	-	-	
Beryllium	NA	ND	ND	-	-	
Cadmium	NA	61.9	22.7	-	-	
Calcium	NA	45,900	16,500	-	-	
Chromium	NA NA	2,390	489	-	-	
Cobalt	NA NA	63	61.3	-	_	
Copper	NA NA	131	152	-	-	
Iron	NA NA	81,200	133,000	-	-	
Lead	NA NA	545	1,050	-	-	
Magnesium	NA NA	15,200	190	_	_	
Manganese	NA NA	819	479	_	_	
Mercury	NA NA	8.62	6.30	-	_	
Nickel	NA NA	239	92.6	-	_	
Potassium	NA NA	2,700	ND	-	_	
Selenium	NA NA	5.9	8.5	_	_	
Silver	NA NA	ND	ND	-	-	
Sodium	NA NA	730	210	-	-	
Thallium	NA NA	ND	ND	-	-	
Vanadium	NA NA	533	462	-	-	
	NA NA	294		-		
Zinc General Chemistry	AN	234	169			
		ND	ND	1		
Chromium, Hexavalent (mg/Kg)	NA NA	ND	ND ND	-	-	
Cyanide, Reactive (mg/Kg)	NA NA	ND	ND	-	-	
Cyanide, Total (mg/Kg)	NA	23.8	45.5	-	-	
Flash point (deg C)	NA	>100	>100	-	-	
Paint filter (Free Liquids)	NA	Present	Absent	Absent	Absent	
Phenolics, Total Recoverable (mg/Kg)	NA	ND	12.2	-	-	
pH	NA	7.17	7.14	-	-	
Sulfide, Reactive (mg/Kg)	NA	ND	ND	-	-	
Total Solids (percent)	NA	17	72.9	-	-	

#### Notes:

- 1. TCLP guidance value is the Maximum Concentration of Contaminations for Toxicity Characteristic based on 40 CFR 261.24
- NA Not Applicable
- Not analyzed for
- ND Indicates the analyte was analyzed for but not detected